

ATSC

Disclosure Statement and Licensing Declaration

This declaration does not represent an implied license grant

Please return to:

President
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Discloser:

Name of
Participant

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Representative

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Identification of ATSC Specification Document relevant to the Disclosure Statement:

Number

A/300, A/321, A/322, A/323, A/330, A/331, A/332, A/337,
A/338, A/341, A/342

Title

ATSC 3.0 System (A/300), System Discovery and
Signaling(A/321), Physical Layer Protocol(A/322), Physical
Layer Uplink/Downlink(A/323), Link Layer Protocol(A/330),
Signaling, Delivery, Sync, Error Protection(A/331), Service
Announcement(A/332), Application Signaling(A/337),
Companion Device(A/338), Video (A/341), Audio (A/342)

Licensing Declaration	
<p>If the Discloser is the holder of a patent and/or pending patent application that is the subject of an Essential Claim, /i.e., the use of which it believes would be required to implement the identified ATSC Specification Document, the Discloser hereby declares, in accordance with the Statement on ATSC Patent Policy (see ATSC website), that (check one box only).</p>	
<input type="checkbox"/>	<p>a. The Discloser agrees to make a license to the Essential Claim available without compensation upon request to all applicants for the purpose of implementing the Specification Document, which license may be conditioned upon license reciprocity with respect to the same Specification Document. Negotiations are left to the parties concerned and are performed outside of ATSC.</p> <p>Mark here <u> </u> if the Discloser's willingness to license is conditioned on reciprocity for the above ATSC Standard.</p>
<input checked="" type="checkbox"/>	<p>b. The Discloser agrees to make a license to the Essential Claim available upon request under reasonable and nondiscriminatory terms and conditions to all applicants for the purpose of implementing the Specification Document, which conditions may include license reciprocity with respect to the same Specification Document. Negotiations are left to the parties concerned and are performed outside of ATSC.</p> <p>Mark here <u> X </u> if the Discloser's willingness to license is conditioned on reciprocity for the above ATSC Standard.</p>
<input type="checkbox"/>	<p>c. The Discloser will not make a license to the Essential Claim under reasonable and nondiscriminatory terms and conditions to applicants for the purpose of implementing the Specification Document.</p>
<p>Without Compensation: The phrase "without compensation" does not mean that the Discloser is waiving all of its rights with respect to each patent or patent application that is the subject matter of the Essential Claim. Rather, "without compensation" refers to the issue of monetary compensation; i.e.t that the Discloser will not seek any monetary compensation as part of the licensing arrangement (whether such compensation is called a royalty, a one-time licensing fee, etc.). However, while the Discloser in this situation is committing to not charging any monetary amount, the Discloser is still entitled to require that the implementer of the ATSC Specification Document sign a license agreement that contains other reasonable terms and conditions such as those relating to governing law, field of use, reciprocity, warranties, etc.</p> <p>Reciprocity: As used herein, the word "reciprocity" means that the Discloser shall only be required to license any prospective licensee under the stated terms (without compensation or under reasonable and nondiscriminatory terms and conditions) if such prospective licensee will commit to license its patent(s) or patent application(s) forming the subject matter of an Essential Claim under similar (without compensation or under reasonable and nondiscriminatory) terms and conditions.</p>	

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No.	Patent/Application No.	Country	Patent/ Application Holder	Status [granted/pending]
1	US7680108	US	Samsung Electronics Co., LTD.	Granted
2	US7715491	US	Samsung Electronics Co., LTD.	Granted
3	US8594245	US	Samsung Electronics Co., LTD.	Granted
4	US8001451	US	Samsung Electronics Co., LTD.	Granted
5	US8806311	US	Samsung Electronics Co., LTD.	Granted
6	US8139582	US	Samsung Electronics Co., LTD.	Granted
7	US7983251	US	Samsung Electronics Co., LTD.	Granted
8	US8300522	US	Samsung Electronics Co., LTD.	Granted
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300	US8731406	US	Samsung Electronics Co., LTD.	Granted
301	US8950933	US	Samsung Electronics Co., LTD.	Granted
302	US8855496	US	Samsung Electronics Co., LTD.	Granted
303	US8495476	US	Samsung Electronics Co., LTD.	Granted
304	13/053,076	US	Samsung Electronics Co., LTD.	Pending
305	US9774865	US	Samsung Electronics Co., LTD.	Granted
306	US14/643959	US	Samsung Electronics Co., LTD.	Pending
307	US9788078	US	Samsung Electronics Co., LTD.	Granted
308	US9520079	US	Samsung Electronics Co., LTD.	Granted
309	US14/546933	US	Samsung Electronics Co., LTD.	Pending
310	US7688771	US	Samsung Electronics Co., LTD.	Granted
311	US8619659	US	Samsung Electronics Co., LTD.	Granted
312	US8954066	US	Samsung Electronics Co., LTD.	Granted
313	US7991387	US	Samsung Electronics Co., LTD.	Granted
314	US7725722	US	Samsung Electronics Co., LTD.	Granted
315	US7987505	US	Samsung Electronics Co., LTD.	Granted
316	US8220044	US	Samsung Electronics Co., LTD.	Granted
317	US9043394	US	Samsung Electronics Co., LTD.	Granted
318	US9906606	US	Samsung Electronics Co., LTD.	Granted
319	US8849986	US	Samsung Electronics Co., LTD.	Granted
320	US9331926	US	Samsung Electronics Co., LTD.	Granted
321	US8325649	US	Samsung Electronics Co., LTD.	Granted
322	US8457158	US	Samsung Electronics Co., LTD.	Granted
323	US9008123	US	Samsung Electronics Co., LTD.	Granted
324	US9294536	US	Samsung Electronics Co., LTD.	Granted

325	US14/489032	US	Samsung Electronics Co., LTD.	Pending
326	US15/023224	US	Samsung Electronics Co., LTD.	Pending
327	US9232202	US	Samsung Electronics Co., LTD.	Granted
328	US9906298	US	Samsung Electronics Co., LTD.	Granted
329	US14/818776	US	Samsung Electronics Co., LTD.	Pending
330	US9906326	US	Samsung Electronics Co., LTD.	Granted
331	US15/836190	US	Samsung Electronics Co., LTD.	Pending
332	US15/850908	US	Samsung Electronics Co., LTD.	Pending
333	US15/850927	US	Samsung Electronics Co., LTD.	Pending
334	US9906823	US	Samsung Electronics Co., LTD.	Granted
335	US15/900184	US	Samsung Electronics Co., LTD.	Pending
336	US15/924938	US	Samsung Electronics Co., LTD.	Pending
337	US9859924	US	Samsung Electronics Co., LTD.	Granted
338	US15/845814	US	Samsung Electronics Co., LTD.	Pending
339	US9906982	US	Samsung Electronics Co., LTD.	Granted
340	US15/905225	US	Samsung Electronics Co., LTD.	Pending
341	US15/417911	US	Samsung Electronics Co., LTD.	Pending
342	US15/247053	US	Samsung Electronics Co., LTD.	Pending
343	US15/271838	US	Samsung Electronics Co., LTD.	Pending
344	US15/806763	US	Samsung Electronics Co., LTD.	Pending
345	US15/609707	US	Samsung Electronics Co., LTD.	Pending
346	US15/725998	US	Samsung Electronics Co., LTD.	Pending
347	US15/686280	US	Samsung Electronics Co., LTD.	Pending
348	US15/783162	US	Samsung Electronics Co., LTD.	Pending
349	US15/432078	US	Samsung Electronics Co., LTD.	Pending
350	US15/435042	US	Samsung Electronics Co., LTD.	Pending
351	US15/264057	US	Samsung Electronics Co., LTD.	Pending
352	US15/288848	US	Samsung Electronics Co., LTD.	Pending
353	US15/639783	US	Samsung Electronics Co., LTD.	Pending
354	US15/657457	US	Samsung Electronics Co., LTD.	Pending
355	US15/431954	US	Samsung Electronics Co., LTD.	Pending
356	US15/468591	US	Samsung Electronics Co., LTD.	Pending
357	US15/807144	US	Samsung Electronics Co., LTD.	Pending

358	US15/722335	US	Samsung Electronics Co., LTD.	Pending
359	US15/656869	US	Samsung Electronics Co., LTD.	Pending
360	US15/496647	US	Samsung Electronics Co., LTD.	Pending
361	US15/881076	US	Samsung Electronics Co., LTD.	Pending
362	US15/412991	US	Samsung Electronics Co., LTD.	Pending
363	US15/700415	US	Samsung Electronics Co., LTD.	Pending
364	US15/705749	US	Samsung Electronics Co., LTD.	Pending
365	US15/656931	US	Samsung Electronics Co., LTD.	Pending
366	US15/639614	US	Samsung Electronics Co., LTD.	Pending
367	US15/433176	US	Samsung Electronics Co., LTD.	Pending
368	US15/427623	US	Samsung Electronics Co., LTD.	Pending
369	US15/705603	US	Samsung Electronics Co., LTD.	Pending
370	US15/700386	US	Samsung Electronics Co., LTD.	Pending
371	US15/661653	US	Samsung Electronics Co., LTD.	Pending
372	US15/343933	US	Samsung Electronics Co., LTD.	Pending
373	US15/906491	US	Samsung Electronics Co., LTD.	Pending
374	US15/906410	US	Samsung Electronics Co., LTD.	Pending
375	US15/905404	US	Samsung Electronics Co., LTD.	Pending
376	US15/726806	US	Samsung Electronics Co., LTD.	Pending
377	US9929825	US	Samsung Electronics Co., LTD.	Granted
378	US15/893250	US	Samsung Electronics Co., LTD.	Pending
379	US15/813722	US	Samsung Electronics Co., LTD.	Pending
380	US15/149001	US	Samsung Electronics Co., LTD.	Pending
381	US9585147	US	Samsung Electronics Co., LTD.	Granted
382	US9768932	US	Samsung Electronics Co., LTD.	Granted
383	US9935755	US	Samsung Electronics Co., LTD.	Granted
384	US15/458531	US	Samsung Electronics Co., LTD.	Pending
385	US15/818480	US	Samsung Electronics Co., LTD.	Pending
386	US7302264	US	Samsung Electronics Co., LTD.	Granted
387	US7945265	US	Samsung Electronics Co., LTD.	Granted
388	US7596114	US	Samsung Electronics Co., LTD.	Granted
389	US7508751	US	Samsung Electronics Co., LTD.	Granted
390	US7720473	US	Samsung Electronics Co., LTD.	Granted

391	US8185114	US	Samsung Electronics Co., LTD.	Granted
392	US7574210	US	Samsung Electronics Co., LTD.	Granted
393	US7813320	US	Samsung Electronics Co., LTD.	Granted
394	US7428227	US	Samsung Electronics Co., LTD.	Granted
395	US7889700	US	Samsung Electronics Co., LTD.	Granted
396	US7653393	US	Samsung Electronics Co., LTD.	Granted
397	US7660607	US	Samsung Electronics Co., LTD.	Granted
398	US7590045	US	Samsung Electronics Co., LTD.	Granted
399	US7551937	US	Samsung Electronics Co., LTD.	Granted
400	US7631239	US	Samsung Electronics Co., LTD.	Granted
401	US7752519	US	Samsung Electronics Co., LTD.	Granted
402	US8656480	US	Samsung Electronics Co., LTD.	Granted
403	US8095165	US	Samsung Electronics Co., LTD.	Granted
404	US8244292	US	Samsung Electronics Co., LTD.	Granted
405	US8400972	US	Samsung Electronics Co., LTD.	Granted
406	US12/139934	US	Samsung Electronics Co., LTD.	Pending
407	US7633900	US	Samsung Electronics Co., LTD.	Granted
408	US7545772	US	Samsung Electronics Co., LTD.	Granted
409	US8223704	US	Samsung Electronics Co., LTD.	Granted
410	US7715483	US	Samsung Electronics Co., LTD.	Granted
411	US7991062	US	Samsung Electronics Co., LTD.	Granted
412	US7933195	US	Samsung Electronics Co., LTD.	Granted
413	US7558535	US	Samsung Electronics Co., LTD.	Granted
414	US7907915	US	Samsung Electronics Co., LTD.	Granted
415	US7813361	US	Samsung Electronics Co., LTD.	Granted
416	US7522570	US	Samsung Electronics Co., LTD.	Granted
417	US8467780	US	Samsung Electronics Co., LTD.	Granted
418	US7602843	US	Samsung Electronics Co., LTD.	Granted
419	US8090012	US	Samsung Electronics Co., LTD.	Granted
420	US8868071	US	Samsung Electronics Co., LTD.	Granted
421	US7301890	US	Samsung Electronics Co., LTD.	Granted
422	US7693041	US	Samsung Electronics Co., LTD.	Granted
423	US7310303	US	Samsung Electronics Co., LTD.	Granted

424	US7515559	US	Samsung Electronics Co., LTD.	Granted
425	US7450661	US	Samsung Electronics Co., LTD.	Granted
426	US7260405	US	Samsung Electronics Co., LTD.	Granted
427	US7920525	US	Samsung Electronics Co., LTD.	Granted
428	USRE42573	US	Samsung Electronics Co., LTD.	Granted
429	US7430418	US	Samsung Electronics Co., LTD.	Granted
430	US7693520	US	Samsung Electronics Co., LTD.	Granted
431	US7877093	US	Samsung Electronics Co., LTD.	Granted
432	US8112088	US	Samsung Electronics Co., LTD.	Granted
433	US7801072	US	Samsung Electronics Co., LTD.	Granted
434	US7848273	US	Samsung Electronics Co., LTD.	Granted
435	US7675841	US	Samsung Electronics Co., LTD.	Granted
436	US7535860	US	Samsung Electronics Co., LTD.	Granted
437	US7623864	US	Samsung Electronics Co., LTD.	Granted
438	US7813734	US	Samsung Electronics Co., LTD.	Granted
439	US7502987	US	Samsung Electronics Co., LTD.	Granted
440	US8656247	US	Samsung Electronics Co., LTD.	Granted
441	US7593731	US	Samsung Electronics Co., LTD.	Granted
442	US7920868	US	Samsung Electronics Co., LTD.	Granted
443	US7593486	US	Samsung Electronics Co., LTD.	Granted
444	US7606320	US	Samsung Electronics Co., LTD.	Granted
445	US7593732	US	Samsung Electronics Co., LTD.	Granted
446	US7586836	US	Samsung Electronics Co., LTD.	Granted
447	US7583586	US	Samsung Electronics Co., LTD.	Granted
448	US7515644	US	Samsung Electronics Co., LTD.	Granted
449	US7522553	US	Samsung Electronics Co., LTD.	Granted
450	US7653022	US	Samsung Electronics Co., LTD.	Granted
451	US7558293	US	Samsung Electronics Co., LTD.	Granted
452	US7463693	US	Samsung Electronics Co., LTD.	Granted
453	US7801237	US	Samsung Electronics Co., LTD.	Granted
454	US7676230	US	Samsung Electronics Co., LTD.	Granted
455	US8380197	US	Samsung Electronics Co., LTD.	Granted
456	US7738869	US	Samsung Electronics Co., LTD.	Granted

457	US7688926	US	Samsung Electronics Co., LTD.	Granted
458	US7873044	US	Samsung Electronics Co., LTD.	Granted
459	US7852813	US	Samsung Electronics Co., LTD.	Granted
460	US7508880	US	Samsung Electronics Co., LTD.	Granted
461	US7724706	US	Samsung Electronics Co., LTD.	Granted
462	US8014358	US	Samsung Electronics Co., LTD.	Granted
463	US7769399	US	Samsung Electronics Co., LTD.	Granted
464	US7952988	US	Samsung Electronics Co., LTD.	Granted
465	US8000650	US	Samsung Electronics Co., LTD.	Granted
466	US7839761	US	Samsung Electronics Co., LTD.	Granted
467	US8681743	US	Samsung Electronics Co., LTD.	Granted
468	US8605645	US	Samsung Electronics Co., LTD.	Granted
469	US8027682	US	Samsung Electronics Co., LTD.	Granted
470	US8284754	US	Samsung Electronics Co., LTD.	Granted
471	US8521166	US	Samsung Electronics Co., LTD.	Granted
472	US8451866	US	Samsung Electronics Co., LTD.	Granted
473	US8266491	US	Samsung Electronics Co., LTD.	Granted
474	US8014266	US	Samsung Electronics Co., LTD.	Granted
475	US8588085	US	Samsung Electronics Co., LTD.	Granted
476	US8229052	US	Samsung Electronics Co., LTD.	Granted
477	US9161217	US	Samsung Electronics Co., LTD.	Granted
478	US8315208	US	Samsung Electronics Co., LTD.	Granted
479	US8521159	US	Samsung Electronics Co., LTD.	Granted
480	US9037936	US	Samsung Electronics Co., LTD.	Granted
481	US9338680	US	Samsung Electronics Co., LTD.	Granted
482	US9210019	US	Samsung Electronics Co., LTD.	Granted
483	US8509134	US	Samsung Electronics Co., LTD.	Granted
484	US8493904	US	Samsung Electronics Co., LTD.	Granted
485	US8755292	US	Samsung Electronics Co., LTD.	Granted
486	US7542442	US	Samsung Electronics Co., LTD.	Granted
487	US9143275	US	Samsung Electronics Co., LTD.	Granted
488	US9215036	US	Samsung Electronics Co., LTD.	Granted
489	US8428177	US	Samsung Electronics Co., LTD.	Granted

490	US9106375	US	Samsung Electronics Co., LTD.	Granted
491	US8473802	US	Samsung Electronics Co., LTD.	Granted
492	US9072020	US	Samsung Electronics Co., LTD.	Granted
493	US9906627	US	Samsung Electronics Co., LTD.	Granted
494	US8626124	US	Samsung Electronics Co., LTD.	Granted
495	US9173138	US	Samsung Electronics Co., LTD.	Granted
496	US8804614	US	Samsung Electronics Co., LTD.	Granted
497	US8505043	US	Samsung Electronics Co., LTD.	Granted
498	US8887225	US	Samsung Electronics Co., LTD.	Granted
499	US6222592	US	Samsung Electronics Co., LTD.	Granted
500	US6118495	US	Samsung Electronics Co., LTD.	Granted
501	US6081301	US	Samsung Electronics Co., LTD.	Granted
502	US6188441	US	Samsung Electronics Co., LTD.	Granted
503	US6667760	US	Samsung Electronics Co., LTD.	Granted
504	US6313885	US	Samsung Electronics Co., LTD.	Granted
505	US6480236	US	Samsung Electronics Co., LTD.	Granted
506	US6496229	US	Samsung Electronics Co., LTD.	Granted
507	US6380969	US	Samsung Electronics Co., LTD.	Granted
508	US6441843	US	Samsung Electronics Co., LTD.	Granted
509	US6384858	US	Samsung Electronics Co., LTD.	Granted
510	US6426780	US	Samsung Electronics Co., LTD.	Granted
511	US6496230	US	Samsung Electronics Co., LTD.	Granted
512	US6606129	US	Samsung Electronics Co., LTD.	Granted
513	US6760078	US	Samsung Electronics Co., LTD.	Granted
514	US6643334	US	Samsung Electronics Co., LTD.	Granted
515	US7349359	US	Samsung Electronics Co., LTD.	Granted
516	US6535500	US	Samsung Electronics Co., LTD.	Granted
517	US7324483	US	Samsung Electronics Co., LTD.	Granted
518	US7774813	US	Samsung Electronics Co., LTD.	Granted
519	US7917150	US	Samsung Electronics Co., LTD.	Granted
520	US8750397	US	Samsung Electronics Co., LTD.	Granted
521	US8359615	US	Samsung Electronics Co., LTD.	Granted
522	US7366117	US	Samsung Electronics Co., LTD.	Granted

523	US7584401	US	Samsung Electronics Co., LTD.	Granted
524	US7817600	US	Samsung Electronics Co., LTD.	Granted
525	US8135082	US	Samsung Electronics Co., LTD.	Granted
526	US8161363	US	Samsung Electronics Co., LTD.	Granted
527	US8190981	US	Samsung Electronics Co., LTD.	Granted
528	US8730998	US	Samsung Electronics Co., LTD.	Granted
529	US9173195	US	Samsung Electronics Co., LTD.	Granted
530	US8661473	US	Samsung Electronics Co., LTD.	Granted
531	US9407488	US	Samsung Electronics Co., LTD.	Granted
532	US8688810	US	Samsung Electronics Co., LTD.	Granted
533	US8495459	US	Samsung Electronics Co., LTD.	Granted
534	US8374141	US	Samsung Electronics Co., LTD.	Granted
535	US9461847	US	Samsung Electronics Co., LTD.	Granted
536	US8521236	US	Samsung Electronics Co., LTD.	Granted
537	US8811304	US	Samsung Electronics Co., LTD.	Granted
538	US8798138	US	Samsung Electronics Co., LTD.	Granted
539	US8787220	US	Samsung Electronics Co., LTD.	Granted
540	US9954917	US	Samsung Electronics Co., LTD.	Granted
541	US15/959484	US	Samsung Electronics Co., LTD.	Pending
542	US13/265007	US	Samsung Electronics Co., LTD.	Pending
543	US9319701	US	Samsung Electronics Co., LTD.	Granted
544	US8804805	US	Samsung Electronics Co., LTD.	Granted
545	US8645809	US	Samsung Electronics Co., LTD.	Granted
546	US9197250	US	Samsung Electronics Co., LTD.	Granted
547	US9204176	US	Samsung Electronics Co., LTD.	Granted
548	US9100671	US	Samsung Electronics Co., LTD.	Granted
549	US13/311149	US	Samsung Electronics Co., LTD.	Pending
550	US9966974	US	Samsung Electronics Co., LTD.	Granted
551	US9106261	US	Samsung Electronics Co., LTD.	Granted
552	US9635076	US	Samsung Electronics Co., LTD.	Granted
553	US15/494978	US	Samsung Electronics Co., LTD.	Pending
554	US9203608	US	Samsung Electronics Co., LTD.	Granted
555	US9203534	US	Samsung Electronics Co., LTD.	Granted

556	US8661493	US	Samsung Electronics Co., LTD.	Granted
557	US14/152451	US	Samsung Electronics Co., LTD.	Pending
558	US13/651917	US	Samsung Electronics Co., LTD.	Pending
559	US9520897	US	Samsung Electronics Co., LTD.	Granted
560	US8977935	US	Samsung Electronics Co., LTD.	Granted
561	US9276702	US	Samsung Electronics Co., LTD.	Granted
562	US9467250	US	Samsung Electronics Co., LTD.	Granted
563	US9319723	US	Samsung Electronics Co., LTD.	Granted
564	US9705640	US	Samsung Electronics Co., LTD.	Granted
565	US9258085	US	Samsung Electronics Co., LTD.	Granted
566	US9667381	US	Samsung Electronics Co., LTD.	Granted
567	US15/498010	US	Samsung Electronics Co., LTD.	Pending
568	US9628113	US	Samsung Electronics Co., LTD.	Granted
569	US15/457293	US	Samsung Electronics Co., LTD.	Pending
570	US14/103429	US	Samsung Electronics Co., LTD.	Pending
571	US9722753	US	Samsung Electronics Co., LTD.	Granted
572	US9608667	US	Samsung Electronics Co., LTD.	Granted
573	US14/546488	US	Samsung Electronics Co., LTD.	Pending
574	US15/983608	US	Samsung Electronics Co., LTD.	Pending
575	US9577860	US	Samsung Electronics Co., LTD.	Granted
576	US9225357	US	Samsung Electronics Co., LTD.	Granted
577	US14/981042	US	Samsung Electronics Co., LTD.	Pending
578	US14/256428	US	Samsung Electronics Co., LTD.	Pending
579	US9955360	US	Samsung Electronics Co., LTD.	Granted
580	US9369743	US	Samsung Electronics Co., LTD.	Granted
581	US9813207	US	Samsung Electronics Co., LTD.	Granted
582	US9800371	US	Samsung Electronics Co., LTD.	Granted
583	US9641198	US	Samsung Electronics Co., LTD.	Granted
584	US15/581377	US	Samsung Electronics Co., LTD.	Pending
585	US9660669	US	Samsung Electronics Co., LTD.	Granted
586	US9356734	US	Samsung Electronics Co., LTD.	Granted
587	US9774352	US	Samsung Electronics Co., LTD.	Granted
588	US15/109595	US	Samsung Electronics Co., LTD.	Pending

589	US15/110682	US	Samsung Electronics Co., LTD.	Pending
590	US15/115144	US	Samsung Electronics Co., LTD.	Pending
591	US14/690942	US	Samsung Electronics Co., LTD.	Pending
592	US15/323897	US	Samsung Electronics Co., LTD.	Pending
593	US15/320638	US	Samsung Electronics Co., LTD.	Pending
594	US15/320542	US	Samsung Electronics Co., LTD.	Pending
595	US15/319208	US	Samsung Electronics Co., LTD.	Pending
596	US15/319714	US	Samsung Electronics Co., LTD.	Pending
597	US15/085414	US	Samsung Electronics Co., LTD.	Pending
598	US9755784	US	Samsung Electronics Co., LTD.	Granted
599	US15/167140	US	Samsung Electronics Co., LTD.	Pending
600	US15/562686	US	Samsung Electronics Co., LTD.	Pending
601	US9354301	US	Samsung Electronics Co., LTD.	Granted
602	US15/093439	US	Samsung Electronics Co., LTD.	Pending
603	US15/297058	US	Samsung Electronics Co., LTD.	Pending
604	US9432153	US	Samsung Electronics Co., LTD.	Granted
605	US8923145	US	Samsung Electronics Co., LTD.	Granted
606	US15/685730	US	Samsung Electronics Co., LTD.	Pending
607	US15/371453	US	Samsung Electronics Co., LTD.	Pending
608	US15/129218	US	Samsung Electronics Co., LTD.	Pending
609	US15/300077	US	Samsung Electronics Co., LTD.	Pending
610	US15/303362	US	Samsung Electronics Co., LTD.	Pending
611	US15/322051	US	Samsung Electronics Co., LTD.	Pending
612	2644491	CA	Samsung Electronics Co., LTD.	Granted
613	2644495	CA	Samsung Electronics Co., LTD.	Granted
614	ZL200780009908.7	CN	Samsung Electronics Co., LTD.	Granted
615	ZL200780010023.9	CN	Samsung Electronics Co., LTD.	Granted
616	ZL200910207652.1	CN	Samsung Electronics Co., LTD.	Granted
617	ZL200910207647.0	CN	Samsung Electronics Co., LTD.	Granted
618	293561	MX	Samsung Electronics Co., LTD.	Granted
619	293574	MX	Samsung Electronics Co., LTD.	Granted
620	US7639751	US	Samsung Electronics Co., LTD.	Granted
621	US8493973	US	Samsung Electronics Co., LTD.	Granted

622	US8218666	US	Samsung Electronics Co., LTD.	Granted
623	13811	VN	Samsung Electronics Co., LTD.	Granted
624	13858	VN	Samsung Electronics Co., LTD.	Granted
625	PI0713659-5	BR	Samsung Electronics Co., LTD.	Pending
626	PI0722371-4	BR	Samsung Electronics Co., LTD.	Pending
627	PI0722372-2	BR	Samsung Electronics Co., LTD.	Pending
628	2645533	CA	Samsung Electronics Co., LTD.	Granted
629	2686278	CA	Samsung Electronics Co., LTD.	Granted
630	2686669	CA	Samsung Electronics Co., LTD.	Granted
631	ZL200780012724.6	CN	Samsung Electronics Co., LTD.	Granted
632	ZL200910174011.0	CN	Samsung Electronics Co., LTD.	Granted
633	309748	MX	Samsung Electronics Co., LTD.	Granted
634	311289	MX	Samsung Electronics Co., LTD.	Granted
635	311276	MX	Samsung Electronics Co., LTD.	Granted
636	US8599875	US	Samsung Electronics Co., LTD.	Granted
637	US8830995	US	Samsung Electronics Co., LTD.	Granted
638	US8824503	US	Samsung Electronics Co., LTD.	Granted
639	US8831038	US	Samsung Electronics Co., LTD.	Granted
640	9829	VN	Samsung Electronics Co., LTD.	Granted
641	12861	VN	Samsung Electronics Co., LTD.	Granted
642	2684993	CA	Samsung Electronics Co., LTD.	Granted
643	2684401	CA	Samsung Electronics Co., LTD.	Granted
644	ZL200910205858.0	CN	Samsung Electronics Co., LTD.	Granted
645	ZL200910205859.5	CN	Samsung Electronics Co., LTD.	Granted
646	ZL200910205860.8	CN	Samsung Electronics Co., LTD.	Granted
647	P0793963	KR	Samsung Electronics Co., LTD.	Granted
648	299289	MX	Samsung Electronics Co., LTD.	Granted
649	298693	MX	Samsung Electronics Co., LTD.	Granted
650	303994	MX	Samsung Electronics Co., LTD.	Granted
651	US7876750	US	Samsung Electronics Co., LTD.	Granted
652	US7929529	US	Samsung Electronics Co., LTD.	Granted
653	US8223764	US	Samsung Electronics Co., LTD.	Granted
654	0710525-8	BR	Samsung Electronics Co., LTD.	Pending

655	2645612	CA	Samsung Electronics Co., LTD.	Granted
656	ZL200780010132.0	CN	Samsung Electronics Co., LTD.	Granted
657	ZL200910170700.4	CN	Samsung Electronics Co., LTD.	Granted
658	P0811186	KR	Samsung Electronics Co., LTD.	Granted
659	301333	MX	Samsung Electronics Co., LTD.	Granted
660	US8548000	US	Samsung Electronics Co., LTD.	Granted
661	13859	VN	Samsung Electronics Co., LTD.	Granted
662	2625353	CA	Samsung Electronics Co., LTD.	Granted
663	2680190	CA	Samsung Electronics Co., LTD.	Granted
664	ZL200680038636.9	CN	Samsung Electronics Co., LTD.	Granted
665	ZL200910222726.9	CN	Samsung Electronics Co., LTD.	Granted
666	5312944	JP	Samsung Electronics Co., LTD.	Granted
667	5205355	JP	Samsung Electronics Co., LTD.	Granted
668	P0740202	KR	Samsung Electronics Co., LTD.	Granted
669	303995	MX	Samsung Electronics Co., LTD.	Granted
670	304988	MX	Samsung Electronics Co., LTD.	Granted
671	US8594139	US	Samsung Electronics Co., LTD.	Granted
672	US8050298	US	Samsung Electronics Co., LTD.	Granted
673	2625405	CA	Samsung Electronics Co., LTD.	Granted
674	ZL200680037885.6	CN	Samsung Electronics Co., LTD.	Granted
675	5221360	JP	Samsung Electronics Co., LTD.	Granted
676	P0842083	KR	Samsung Electronics Co., LTD.	Granted
677	280053	MX	Samsung Electronics Co., LTD.	Granted
678	US8356238	US	Samsung Electronics Co., LTD.	Granted
679	2625160	CA	Samsung Electronics Co., LTD.	Granted
680	2686274	CA	Samsung Electronics Co., LTD.	Granted
681	2686676	CA	Samsung Electronics Co., LTD.	Granted
682	ZL200680038333.7	CN	Samsung Electronics Co., LTD.	Granted
683	ZL200910225391.6	CN	Samsung Electronics Co., LTD.	Granted
684	ZL200910225392.0	CN	Samsung Electronics Co., LTD.	Granted
685	ZL200910225390.1	CN	Samsung Electronics Co., LTD.	Granted
686	5221363	JP	Samsung Electronics Co., LTD.	Granted
687	5221497	JP	Samsung Electronics Co., LTD.	Granted

688	5221498	JP	Samsung Electronics Co., LTD.	Granted
689	P0797176	KR	Samsung Electronics Co., LTD.	Granted
690	303990	MX	Samsung Electronics Co., LTD.	Granted
691	314957	MX	Samsung Electronics Co., LTD.	Granted
692	314958	MX	Samsung Electronics Co., LTD.	Granted
693	US8514892	US	Samsung Electronics Co., LTD.	Granted
694	US8457161	US	Samsung Electronics Co., LTD.	Granted
695	US8385369	US	Samsung Electronics Co., LTD.	Granted
696	P1414472	KR	Samsung Electronics Co., LTD.	Granted
697	US9124924	US	Samsung Electronics Co., LTD.	Granted
698	US8792587	US	Samsung Electronics Co., LTD.	Granted
699	US8750422	US	Samsung Electronics Co., LTD.	Granted
700	US8744007	US	Samsung Electronics Co., LTD.	Granted
701	US8879668	US	Samsung Electronics Co., LTD.	Granted
702	US8787500	US	Samsung Electronics Co., LTD.	Granted
703	US8744008	US	Samsung Electronics Co., LTD.	Granted
704	2678408	CA	Samsung Electronics Co., LTD.	Granted
705	ZL200880009010.4	CN	Samsung Electronics Co., LTD.	Granted
706	124797	FI	Samsung Electronics Co., LTD.	Granted
707	P1366247	KR	Samsung Electronics Co., LTD.	Granted
708	301808	MX	Samsung Electronics Co., LTD.	Granted
709	14297	VN	Samsung Electronics Co., LTD.	Granted
710	PI0809623-6	BR	Samsung Electronics Co., LTD.	Pending
711	2677188	CA	Samsung Electronics Co., LTD.	Pending
712	ZL200880005996.8	CN	Samsung Electronics Co., LTD.	Granted
713	289583	MX	Samsung Electronics Co., LTD.	Granted
714	US8458576	US	Samsung Electronics Co., LTD.	Granted
715	US8769388	US	Samsung Electronics Co., LTD.	Granted
716	13860	VN	Samsung Electronics Co., LTD.	Granted
717	P1427647	KR	Samsung Electronics Co., LTD.	Granted
718	US8718131	US	Samsung Electronics Co., LTD.	Granted
719	124807	FI	Samsung Electronics Co., LTD.	Granted
720	P1496346	KR	Samsung Electronics Co., LTD.	Granted

721	306025	MX	Samsung Electronics Co., LTD.	Granted
722	PI0814315-3	BR	Samsung Electronics Co., LTD.	Pending
723	PI0823178-8	BR	Samsung Electronics Co., LTD.	Pending
724	PI0823179-6	BR	Samsung Electronics Co., LTD.	Pending
725	2692639	CA	Samsung Electronics Co., LTD.	Granted
726	2700667	CA	Samsung Electronics Co., LTD.	Granted
727	2700674	CA	Samsung Electronics Co., LTD.	Granted
728	ZL201010104385.8	CN	Samsung Electronics Co., LTD.	Granted
729	ZL201010104386.2	CN	Samsung Electronics Co., LTD.	Granted
730	302691	MX	Samsung Electronics Co., LTD.	Granted
731	317935	MX	Samsung Electronics Co., LTD.	Granted
732	304813	MX	Samsung Electronics Co., LTD.	Granted
733	US8458554	US	Samsung Electronics Co., LTD.	Granted
734	US8489963	US	Samsung Electronics Co., LTD.	Granted
735	13992	VN	Samsung Electronics Co., LTD.	Granted
736	13863	VN	Samsung Electronics Co., LTD.	Granted
737	13993	VN	Samsung Electronics Co., LTD.	Granted
738	PI0805828-8	BR	Samsung Electronics Co., LTD.	Pending
739	2666573	CA	Samsung Electronics Co., LTD.	Granted
740	ZL200880001062.7	CN	Samsung Electronics Co., LTD.	Granted
741	124038	FI	Samsung Electronics Co., LTD.	Granted
742	P1373013	KR	Samsung Electronics Co., LTD.	Granted
743	300253	MX	Samsung Electronics Co., LTD.	Granted
744	US8275002	US	Samsung Electronics Co., LTD.	Granted
745	10247	VN	Samsung Electronics Co., LTD.	Granted
746	PI0818445-3	BR	Samsung Electronics Co., LTD.	Pending
747	2702054	CA	Samsung Electronics Co., LTD.	Granted
748	ZL200880110773.8	CN	Samsung Electronics Co., LTD.	Granted
749	112008002691.2	DE	Samsung Electronics Co., LTD.	Pending
750	125467	FI	Samsung Electronics Co., LTD.	Granted
751	P1416233	KR	Samsung Electronics Co., LTD.	Granted
752	292695	MX	Samsung Electronics Co., LTD.	Granted
753	US8995353	US	Samsung Electronics Co., LTD.	Granted

754	13343	VN	Samsung Electronics Co., LTD.	Granted
755	PI0805829-6	BR	Samsung Electronics Co., LTD.	Pending
756	2667571	CA	Samsung Electronics Co., LTD.	Granted
757	ZL200880001075.4	CN	Samsung Electronics Co., LTD.	Granted
758	112008000552.4	DE	Samsung Electronics Co., LTD.	Pending
759	124830	FI	Samsung Electronics Co., LTD.	Granted
760	P1122200	KR	Samsung Electronics Co., LTD.	Granted
761	293627	MX	Samsung Electronics Co., LTD.	Granted
762	US8717961	US	Samsung Electronics Co., LTD.	Granted
763	1-2009-01229	VN	Samsung Electronics Co., LTD.	Pending
764	ZL200880022194.8	CN	Samsung Electronics Co., LTD.	Granted
765	316886	MX	Samsung Electronics Co., LTD.	Granted
766	P1138281	KR	Samsung Electronics Co., LTD.	Granted
767	P1158098	KR	Samsung Electronics Co., LTD.	Granted
768	2732953	CA	Samsung Electronics Co., LTD.	Granted
769	ZL200980132603.4	CN	Samsung Electronics Co., LTD.	Granted
770	ZL201310138607.1	CN	Samsung Electronics Co., LTD.	Granted
771	P1575632	KR	Samsung Electronics Co., LTD.	Granted
772	317646	MX	Samsung Electronics Co., LTD.	Granted
773	322974	MX	Samsung Electronics Co., LTD.	Granted
774	US8503335	US	Samsung Electronics Co., LTD.	Granted
775	US9131469	US	Samsung Electronics Co., LTD.	Granted
776	14970	VN	Samsung Electronics Co., LTD.	Granted
777	P0970733	KR	Samsung Electronics Co., LTD.	Granted
778	ZL200480016942.3	CN	Samsung Electronics Co., LTD.	Granted
779	ZL200910141451.6	CN	Samsung Electronics Co., LTD.	Granted
780	P0698620	KR	Samsung Electronics Co., LTD.	Granted
781	255369	MX	Samsung Electronics Co., LTD.	Granted
782	US7337386	US	Samsung Electronics Co., LTD.	Granted
783	USRE44076	US	Samsung Electronics Co., LTD.	Granted
784	USRE44053	US	Samsung Electronics Co., LTD.	Granted
785	ZL200810178731.X	CN	Samsung Electronics Co., LTD.	Granted
786	ZL200810178729.2	CN	Samsung Electronics Co., LTD.	Granted

787	ZL200910134563.9	CN	Samsung Electronics Co., LTD.	Granted
788	1680923	DE	Samsung Electronics Co., LTD.	Granted
789	1680923	EP	Samsung Electronics Co., LTD.	Granted
790	P0683179	KR	Samsung Electronics Co., LTD.	Granted
791	276042	MX	Samsung Electronics Co., LTD.	Granted
792	1680923	NL	Samsung Electronics Co., LTD.	Granted
793	US7480851	US	Samsung Electronics Co., LTD.	Granted
794	US7865810	US	Samsung Electronics Co., LTD.	Granted
795	2554495	CA	Samsung Electronics Co., LTD.	Granted
796	2683448	CA	Samsung Electronics Co., LTD.	Granted
797	2683447	CA	Samsung Electronics Co., LTD.	Granted
798	2681959	CA	Samsung Electronics Co., LTD.	Granted
799	2681955	CA	Samsung Electronics Co., LTD.	Granted
800	ZL200580003120.6	CN	Samsung Electronics Co., LTD.	Granted
801	ZL200910118486.8	CN	Samsung Electronics Co., LTD.	Granted
802	ZL200910204012.5	CN	Samsung Electronics Co., LTD.	Granted
803	ZL200910204011.0	CN	Samsung Electronics Co., LTD.	Granted
804	ZL200910204010.6	CN	Samsung Electronics Co., LTD.	Granted
805	ZL200910204009.3	CN	Samsung Electronics Co., LTD.	Granted
806	4663658	JP	Samsung Electronics Co., LTD.	Granted
807	4594436	JP	Samsung Electronics Co., LTD.	Granted
808	5005752	JP	Samsung Electronics Co., LTD.	Granted
809	4975798	JP	Samsung Electronics Co., LTD.	Granted
810	5091218	JP	Samsung Electronics Co., LTD.	Granted
811	P0896684	KR	Samsung Electronics Co., LTD.	Granted
812	275003	MX	Samsung Electronics Co., LTD.	Granted
813	298365	MX	Samsung Electronics Co., LTD.	Granted
814	298366	MX	Samsung Electronics Co., LTD.	Granted
815	300531	MX	Samsung Electronics Co., LTD.	Granted
816	298364	MX	Samsung Electronics Co., LTD.	Granted
817	2508605	RU	Samsung Electronics Co., LTD.	Granted
818	US7593474	US	Samsung Electronics Co., LTD.	Granted
819	US8019011	US	Samsung Electronics Co., LTD.	Granted

820	US8107548	US	Samsung Electronics Co., LTD.	Granted
821	US8199839	US	Samsung Electronics Co., LTD.	Granted
822	US8050347	US	Samsung Electronics Co., LTD.	Granted
823	2511903	CA	Samsung Electronics Co., LTD.	Granted
824	ZL200910132712.8	CN	Samsung Electronics Co., LTD.	Granted
825	ZL200910147511.5	CN	Samsung Electronics Co., LTD.	Granted
826	P1058038	KR	Samsung Electronics Co., LTD.	Granted
827	252421	MX	Samsung Electronics Co., LTD.	Granted
828	USRE42301	US	Samsung Electronics Co., LTD.	Granted
829	P1086309	KR	Samsung Electronics Co., LTD.	Granted
830	P1085916	KR	Samsung Electronics Co., LTD.	Granted
831	P1160332	KR	Samsung Electronics Co., LTD.	Granted
832	P1037942	KR	Samsung Electronics Co., LTD.	Granted
833	P1037943	KR	Samsung Electronics Co., LTD.	Granted
834	P1037944	KR	Samsung Electronics Co., LTD.	Granted
835	P1037945	KR	Samsung Electronics Co., LTD.	Granted
836	P1092538	KR	Samsung Electronics Co., LTD.	Granted
837	P1314752	KR	Samsung Electronics Co., LTD.	Granted
838	P1366627	KR	Samsung Electronics Co., LTD.	Granted
839	P1366634	KR	Samsung Electronics Co., LTD.	Granted
840	P1468953	KR	Samsung Electronics Co., LTD.	Granted
841	P1360002	KR	Samsung Electronics Co., LTD.	Granted
842	P1393016	KR	Samsung Electronics Co., LTD.	Granted
843	P1358292	KR	Samsung Electronics Co., LTD.	Granted
844	P1358720	KR	Samsung Electronics Co., LTD.	Granted
845	P1358722	KR	Samsung Electronics Co., LTD.	Granted
846	P1138275	KR	Samsung Electronics Co., LTD.	Granted
847	P1074039	KR	Samsung Electronics Co., LTD.	Granted
848	P1138274	KR	Samsung Electronics Co., LTD.	Granted
849	P1160336	KR	Samsung Electronics Co., LTD.	Granted
850	P1160334	KR	Samsung Electronics Co., LTD.	Granted
851	P1183209	KR	Samsung Electronics Co., LTD.	Granted
852	P1183208	KR	Samsung Electronics Co., LTD.	Granted

853	P1183210	KR	Samsung Electronics Co., LTD.	Granted
854	P1160335	KR	Samsung Electronics Co., LTD.	Granted
855	P1401611	KR	Samsung Electronics Co., LTD.	Granted
856	P1367216	KR	Samsung Electronics Co., LTD.	Granted
857	P1367209	KR	Samsung Electronics Co., LTD.	Granted
858	P1309286	KR	Samsung Electronics Co., LTD.	Granted
859	P1309285	KR	Samsung Electronics Co., LTD.	Granted
860	P1235861	KR	Samsung Electronics Co., LTD.	Granted
861	P1373017	KR	Samsung Electronics Co., LTD.	Granted
862	P1385442	KR	Samsung Electronics Co., LTD.	Granted
863	P1385441	KR	Samsung Electronics Co., LTD.	Granted
864	P1385440	KR	Samsung Electronics Co., LTD.	Granted
865	2106055	AT	Samsung Electronics Co., LTD.	Granted
866	2101429	AT	Samsung Electronics Co., LTD.	Granted
867	2009220329	AU	Samsung Electronics Co., LTD.	Granted
868	2013231171	AU	Samsung Electronics Co., LTD.	Granted
869	2013231175	AU	Samsung Electronics Co., LTD.	Granted
870	2106055	BE	Samsung Electronics Co., LTD.	Granted
871	2101429	BE	Samsung Electronics Co., LTD.	Granted
872	2106055	BG	Samsung Electronics Co., LTD.	Granted
873	2101429	BG	Samsung Electronics Co., LTD.	Granted
874	2106055	CH	Samsung Electronics Co., LTD.	Granted
875	2101429	CH	Samsung Electronics Co., LTD.	Granted
876	ZL200980107570.8	CN	Samsung Electronics Co., LTD.	Granted
877	ZL201310350532.3	CN	Samsung Electronics Co., LTD.	Granted
878	ZL201310350121.4	CN	Samsung Electronics Co., LTD.	Granted
879	2099149	CZ	Samsung Electronics Co., LTD.	Granted
880	2106055	CZ	Samsung Electronics Co., LTD.	Granted
881	2101429	CZ	Samsung Electronics Co., LTD.	Granted
882	2099149	DE	Samsung Electronics Co., LTD.	Granted
883	2106055	DE	Samsung Electronics Co., LTD.	Granted
884	2101429	DE	Samsung Electronics Co., LTD.	Granted
885	2106055	DK	Samsung Electronics Co., LTD.	Granted

886	2101429	DK	Samsung Electronics Co., LTD.	Granted
887	2099149	EP	Samsung Electronics Co., LTD.	Granted
888	2106055	EP	Samsung Electronics Co., LTD.	Granted
889	2101429	EP	Samsung Electronics Co., LTD.	Granted
890	2099149	ES	Samsung Electronics Co., LTD.	Granted
891	2106055	ES	Samsung Electronics Co., LTD.	Granted
892	2101429	ES	Samsung Electronics Co., LTD.	Granted
893	2099149	FI	Samsung Electronics Co., LTD.	Granted
894	2106055	FI	Samsung Electronics Co., LTD.	Granted
895	2101429	FI	Samsung Electronics Co., LTD.	Granted
896	2099149	FR	Samsung Electronics Co., LTD.	Granted
897	2106055	FR	Samsung Electronics Co., LTD.	Granted
898	2101429	FR	Samsung Electronics Co., LTD.	Granted
899	2099149	GB	Samsung Electronics Co., LTD.	Granted
900	2106055	GB	Samsung Electronics Co., LTD.	Granted
901	2101429	GB	Samsung Electronics Co., LTD.	Granted
902	2106055	GR	Samsung Electronics Co., LTD.	Granted
903	2101429	GR	Samsung Electronics Co., LTD.	Granted
904	2099149	HU	Samsung Electronics Co., LTD.	Granted
905	2106055	HU	Samsung Electronics Co., LTD.	Granted
906	2101429	HU	Samsung Electronics Co., LTD.	Granted
907	IDP0031717	ID	Samsung Electronics Co., LTD.	Granted
908	IDP000040682	ID	Samsung Electronics Co., LTD.	Granted
909	IDP000035936	ID	Samsung Electronics Co., LTD.	Granted
910	6971/DELNP/2010	IN	Samsung Electronics Co., LTD.	Pending
911	2099149	IT	Samsung Electronics Co., LTD.	Granted
912	2106055	IT	Samsung Electronics Co., LTD.	Granted
913	2101429	IT	Samsung Electronics Co., LTD.	Granted
914	5263797	JP	Samsung Electronics Co., LTD.	Granted
915	P1455393	KR	Samsung Electronics Co., LTD.	Granted
916	P1490608	KR	Samsung Electronics Co., LTD.	Granted
917	PI2010004145	MY	Samsung Electronics Co., LTD.	Pending
918	PI2015001150	MY	Samsung Electronics Co., LTD.	Pending

919	PI2015001151	MY	Samsung Electronics Co., LTD.	Pending
920	2099149	NL	Samsung Electronics Co., LTD.	Granted
921	2106055	NL	Samsung Electronics Co., LTD.	Granted
922	2101429	NL	Samsung Electronics Co., LTD.	Granted
923	2106055	NO	Samsung Electronics Co., LTD.	Granted
924	2101429	NO	Samsung Electronics Co., LTD.	Granted
925	2099149	PL	Samsung Electronics Co., LTD.	Granted
926	2106055	PL	Samsung Electronics Co., LTD.	Granted
927	2101429	PL	Samsung Electronics Co., LTD.	Granted
928	2106055	PT	Samsung Electronics Co., LTD.	Granted
929	2101429	PT	Samsung Electronics Co., LTD.	Granted
930	2106055	RO	Samsung Electronics Co., LTD.	Granted
931	2101429	RO	Samsung Electronics Co., LTD.	Granted
932	2469478	RU	Samsung Electronics Co., LTD.	Granted
933	2099149	SE	Samsung Electronics Co., LTD.	Granted
934	2106055	SE	Samsung Electronics Co., LTD.	Granted
935	2101429	SE	Samsung Electronics Co., LTD.	Granted
936	164163	SG	Samsung Electronics Co., LTD.	Granted
937	188838	SG	Samsung Electronics Co., LTD.	Granted
938	10201401474Q	SG	Samsung Electronics Co., LTD.	Granted
939	2106055	SI	Samsung Electronics Co., LTD.	Granted
940	2101429	SI	Samsung Electronics Co., LTD.	Granted
941	2099149	SK	Samsung Electronics Co., LTD.	Granted
942	2106055	SK	Samsung Electronics Co., LTD.	Granted
943	2101429	SK	Samsung Electronics Co., LTD.	Granted
944	2106055	TR	Samsung Electronics Co., LTD.	Granted
945	2101429	TR	Samsung Electronics Co., LTD.	Granted
946	I382708	TW	Samsung Electronics Co., LTD.	Granted
947	US9001776	US	Samsung Electronics Co., LTD.	Granted
948	US9008037	US	Samsung Electronics Co., LTD.	Granted
949	US14/685142	US	Samsung Electronics Co., LTD.	Pending
950	12790	VN	Samsung Electronics Co., LTD.	Granted
951	P20140045554	KR	Samsung Electronics Co., LTD.	Pending

952	US9571318	US	Samsung Electronics Co., LTD.	Granted
953	P20140067460	KR	Samsung Electronics Co., LTD.	Pending
954	US9565044	US	Samsung Electronics Co., LTD.	Granted
955	P20140004024	KR	Samsung Electronics Co., LTD.	Pending
956	US9559821	US	Samsung Electronics Co., LTD.	Granted
957	US15/402810	US	Samsung Electronics Co., LTD.	Pending
958	P20140058589	KR	Samsung Electronics Co., LTD.	Pending
959	US9379843	US	Samsung Electronics Co., LTD.	Granted
960	P20130158629	KR	Samsung Electronics Co., LTD.	Pending
961	P20140066349	KR	Samsung Electronics Co., LTD.	Pending
962	US9553610	US	Samsung Electronics Co., LTD.	Granted
963	US15/403812	US	Samsung Electronics Co., LTD.	Pending
964	P20140066986	KR	Samsung Electronics Co., LTD.	Pending
965	US14/728233	US	Samsung Electronics Co., LTD.	Pending
966	P20140058988	KR	Samsung Electronics Co., LTD.	Pending
967	US9258159	US	Samsung Electronics Co., LTD.	Granted
968	P20140061096	KR	Samsung Electronics Co., LTD.	Pending
969	US14/489851	US	Samsung Electronics Co., LTD.	Pending
970	P20140177661	KR	Samsung Electronics Co., LTD.	Pending
971	US14/962077	US	Samsung Electronics Co., LTD.	Pending
972	P20140084995	KR	Samsung Electronics Co., LTD.	Pending
973	US14/794243	US	Samsung Electronics Co., LTD.	Pending
974	201580008642.9	CN	Samsung Electronics Co., LTD.	Pending
975	P20140091214	KR	Samsung Electronics Co., LTD.	Pending
976	US9258167	US	Samsung Electronics Co., LTD.	Granted
977	201580009285.8	CN	Samsung Electronics Co., LTD.	Pending
978	P20140164286	KR	Samsung Electronics Co., LTD.	Pending
979	US9674020	US	Samsung Electronics Co., LTD.	Granted
980	2972882	CA	Samsung Electronics Co., LTD.	Pending
981	201680005075.6	CN	Samsung Electronics Co., LTD.	Pending
982	201717027330	IN	Samsung Electronics Co., LTD.	Pending
983	P20150177018	KR	Samsung Electronics Co., LTD.	Pending
984	MX/a/2017/008967	MX	Samsung Electronics Co., LTD.	Pending

985	US14/989894	US	Samsung Electronics Co., LTD.	Pending
986	1-2017-03024	VN	Samsung Electronics Co., LTD.	Pending
987	P20160008221	KR	Samsung Electronics Co., LTD.	Pending
988	US15/003969	US	Samsung Electronics Co., LTD.	Pending
989	PCT/KR2017/002330	WO	Samsung Electronics Co., LTD.	Pending
990	P20130152261	KR	Samsung Electronics Co., LTD.	Pending
991	US14/023215	US	Samsung Electronics Co., LTD.	Pending
992	GB1410979.7	GB	Samsung Electronics Co., LTD.	Pending
993	201580009823.3	CN	Samsung Electronics Co., LTD.	Pending
994	GB2523363	GB	Samsung Electronics Co., LTD.	Granted
995	P20150008107	KR	Samsung Electronics Co., LTD.	Pending
996	US14/628456	US	Samsung Electronics Co., LTD.	Pending
997	GB1419081.3	GB	Samsung Electronics Co., LTD.	Pending
998	P20150008032	KR	Samsung Electronics Co., LTD.	Pending
999	US9628589	US	Samsung Electronics Co., LTD.	Granted
1000	P20140091024	KR	Samsung Electronics Co., LTD.	Pending
1001	2,974,341	CA	Samsung Electronics Co., LTD.	Pending
1002	201680006400.0	CN	Samsung Electronics Co., LTD.	Pending
1003	16740381.5	EP	Samsung Electronics Co., LTD.	Pending
1004	201717027657	IN	Samsung Electronics Co., LTD.	Pending
1005	P20150015547	KR	Samsung Electronics Co., LTD.	Pending
1006	P20177023265	KR	Samsung Electronics Co., LTD.	Pending
1007	MX/a/2017/009429	MX	Samsung Electronics Co., LTD.	Pending
1008	US15/544423	US	Samsung Electronics Co., LTD.	Pending
1009	201680019429.2	CN	Samsung Electronics Co., LTD.	Pending
1010	2017-551303	JP	Samsung Electronics Co., LTD.	Pending
1011	P20150080209	KR	Samsung Electronics Co., LTD.	Pending
1012	US15/562296	US	Samsung Electronics Co., LTD.	Pending
1013	PCT/KR2016/003433	WO	Samsung Electronics Co., LTD.	Pending
1014	P20150094400	KR	Samsung Electronics Co., LTD.	Pending
1015	US15/200569	US	Samsung Electronics Co., LTD.	Pending
1016	PCT/KR2016/007107	WO	Samsung Electronics Co., LTD.	Pending
1017	P20150107526	KR	Samsung Electronics Co., LTD.	Pending

1018	US15/567267	US	Samsung Electronics Co., LTD.	Pending
1019	PCT/KR2016/004022	WO	Samsung Electronics Co., LTD.	Pending
1020	P20150143109	KR	Samsung Electronics Co., LTD.	Pending
1021	PCT/KR2016/011490	WO	Samsung Electronics Co., LTD.	Pending
1022	P20150143121	KR	Samsung Electronics Co., LTD.	Pending
1023	PCT/KR2016/011486	WO	Samsung Electronics Co., LTD.	Pending
1024	P20150143104	KR	Samsung Electronics Co., LTD.	Pending
1025	PCT/KR2016/011489	WO	Samsung Electronics Co., LTD.	Pending
1026	P20150142468	KR	Samsung Electronics Co., LTD.	Pending
1027	PCT/KR2016/011422	WO	Samsung Electronics Co., LTD.	Pending
1028	P20160005354	KR	Samsung Electronics Co., LTD.	Pending
1029	US15/251489	US	Samsung Electronics Co., LTD.	Pending
1030	PCT/KR2016/009629	WO	Samsung Electronics Co., LTD.	Pending
1031	P20160018787	KR	Samsung Electronics Co., LTD.	Pending
1032	PCT/KR2017/001780	WO	Samsung Electronics Co., LTD.	Pending
1033	P20160018791	KR	Samsung Electronics Co., LTD.	Pending
1034	PCT/KR2017/001805	WO	Samsung Electronics Co., LTD.	Pending
1035	P20160065059	KR	Samsung Electronics Co., LTD.	Pending
1036	PCT/KR2017/005554	WO	Samsung Electronics Co., LTD.	Pending
1037	P20160069108	KR	Samsung Electronics Co., LTD.	Pending
1038	PCT/KR2017/005816	WO	Samsung Electronics Co., LTD.	Pending
1039	P20170007335	KR	Samsung Electronics Co., LTD.	Pending
1040	PCT/KR2017/005555	WO	Samsung Electronics Co., LTD.	Pending
1041	P20170040338	KR	Samsung Electronics Co., LTD.	Pending
1042	P20170040310	KR	Samsung Electronics Co., LTD.	Pending
1043	P20170089265	KR	Samsung Electronics Co., LTD.	Pending
1044	P20170143834	KR	Samsung Electronics Co., LTD.	Pending
1045	P20170133600	KR	Samsung Electronics Co., LTD.	Pending
1046	P20170134905	KR	Samsung Electronics Co., LTD.	Pending
1047	P20170136127	KR	Samsung Electronics Co., LTD.	Pending
1048	P20170134909	KR	Samsung Electronics Co., LTD.	Pending
1049	201480071501.7	CN	Samsung Electronics Co., LTD.	Pending
1050	14857726.5	EP	Samsung Electronics Co., LTD.	Pending

1051	201647017978	IN	Samsung Electronics Co., LTD.	Pending
1052	2016-527355	JP	Samsung Electronics Co., LTD.	Pending
1053	P20167014419	KR	Samsung Electronics Co., LTD.	Pending
1054	US14/525103	US	Samsung Electronics Co., LTD.	Pending
1055	201580026111.2	CN	Samsung Electronics Co., LTD.	Pending
1056	2017-500785	JP	Samsung Electronics Co., LTD.	Pending
1057	P20167029356	KR	Samsung Electronics Co., LTD.	Pending
1058	US14/661668	US	Samsung Electronics Co., LTD.	Pending
1059	201580016796.2	CN	Samsung Electronics Co., LTD.	Pending
1060	2016-559209	JP	Samsung Electronics Co., LTD.	Pending
1061	P20167030169	KR	Samsung Electronics Co., LTD.	Pending
1062	US9560421	US	Samsung Electronics Co., LTD.	Granted
1063	201580028899.0	CN	Samsung Electronics Co., LTD.	Pending
1064	15772592.0	EP	Samsung Electronics Co., LTD.	Pending
1065	2016-559580	JP	Samsung Electronics Co., LTD.	Pending
1066	P20167030476	KR	Samsung Electronics Co., LTD.	Pending
1067	US14/596796	US	Samsung Electronics Co., LTD.	Pending
1068	201580028953.1	CN	Samsung Electronics Co., LTD.	Pending
1069	15773549.9	EP	Samsung Electronics Co., LTD.	Pending
1070	2016-560475	JP	Samsung Electronics Co., LTD.	Pending
1071	P20167030454	KR	Samsung Electronics Co., LTD.	Pending
1072	US14/616432	US	Samsung Electronics Co., LTD.	Pending
1073	201580017753.6	CN	Samsung Electronics Co., LTD.	Pending
1074	15772594.6	EP	Samsung Electronics Co., LTD.	Pending
1075	2016-560493	JP	Samsung Electronics Co., LTD.	Pending
1076	P20167030732	KR	Samsung Electronics Co., LTD.	Pending
1077	US14/616972	US	Samsung Electronics Co., LTD.	Pending
1078	201680009505.1	CN	Samsung Electronics Co., LTD.	Pending
1079	2017-540821	JP	Samsung Electronics Co., LTD.	Pending
1080	P20177018108	KR	Samsung Electronics Co., LTD.	Pending
1081	US14/965627	US	Samsung Electronics Co., LTD.	Pending
1082	PCT/KR2016/001440	WO	Samsung Electronics Co., LTD.	Pending
1083	US14/992990	US	Samsung Electronics Co., LTD.	Pending

1084	PCT/KR2016/006280	WO	Samsung Electronics Co., LTD.	Pending
1085	US15/001018	US	Samsung Electronics Co., LTD.	Pending
1086	PCT/KR2016/006252	WO	Samsung Electronics Co., LTD.	Pending
1087	US15/013847	US	Samsung Electronics Co., LTD.	Pending
1088	PCT/KR2016/011689	WO	Samsung Electronics Co., LTD.	Pending
1089	US15/415840	US	Samsung Electronics Co., LTD.	Pending
1090	PCT/KR2017/005339	WO	Samsung Electronics Co., LTD.	Pending
1091	US15/465424	US	Samsung Electronics Co., LTD.	Pending
1092	PCT/KR2017/005473	WO	Samsung Electronics Co., LTD.	Pending
1093	US15/729101	US	Samsung Electronics Co., LTD.	Pending
1094	PCT/KR2017/011244	WO	Samsung Electronics Co., LTD.	Pending
1095	11809862.3	EP	Samsung Electronics Co., LTD.	Pending
1096	US9060185	US	Samsung Electronics Co., LTD.	Granted
1097	US9628534	US	Samsung Electronics Co., LTD.	Granted
1098	US15/409062	US	Samsung Electronics Co., LTD.	Pending
1099	P20110036914	KR	Samsung Electronics Co., LTD.	Pending
1100	P20130043577	KR	Samsung Electronics Co., LTD.	Pending
1101	US9147291	US	Samsung Electronics Co., LTD.	Granted
1102	13779094.5	EP	Samsung Electronics Co., LTD.	Pending
1103	P20130043521	KR	Samsung Electronics Co., LTD.	Pending
1104	US13/866451	US	Samsung Electronics Co., LTD.	Pending
1105	P20120074676	KR	Samsung Electronics Co., LTD.	Pending
1106	P20120100522	KR	Samsung Electronics Co., LTD.	Pending
1107	P20150056636	KR	Samsung Electronics Co., LTD.	Pending
1108	2014205778	AU	Samsung Electronics Co., LTD.	Pending
1109	2,893,415	CA	Samsung Electronics Co., LTD.	Pending
1110	201480004834.8	CN	Samsung Electronics Co., LTD.	Pending
1111	14737927.5	EP	Samsung Electronics Co., LTD.	Pending
1112	2199/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1113	2015-552589	JP	Samsung Electronics Co., LTD.	Pending
1114	MX/a/2015/008738	MX	Samsung Electronics Co., LTD.	Pending
1115	2015134191	RU	Samsung Electronics Co., LTD.	Pending
1116	US14/154507	US	Samsung Electronics Co., LTD.	Pending

1117	201380027909.X	CN	Samsung Electronics Co., LTD.	Pending
1118	13785254.7	EP	Samsung Electronics Co., LTD.	Pending
1119	2015-510186	JP	Samsung Electronics Co., LTD.	Pending
1120	P20147033934	KR	Samsung Electronics Co., LTD.	Pending
1121	US9699188	US	Samsung Electronics Co., LTD.	Granted
1122	201480031901.5	CN	Samsung Electronics Co., LTD.	Pending
1123	14784642.2	EP	Samsung Electronics Co., LTD.	Pending
1124	3151/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1125	2016-508876	JP	Samsung Electronics Co., LTD.	Pending
1126	P20157031959	KR	Samsung Electronics Co., LTD.	Pending
1127	US14/256592	US	Samsung Electronics Co., LTD.	Pending
1128	1120160064372	BR	Samsung Electronics Co., LTD.	Pending
1129	2,925,279	CA	Samsung Electronics Co., LTD.	Pending
1130	201480052441.4	CN	Samsung Electronics Co., LTD.	Pending
1131	14845983.7	EP	Samsung Electronics Co., LTD.	Pending
1132	201617013957	IN	Samsung Electronics Co., LTD.	Pending
1133	2016-516572	JP	Samsung Electronics Co., LTD.	Pending
1134	P20130112794	KR	Samsung Electronics Co., LTD.	Pending
1135	MX/a/2016/003842	MX	Samsung Electronics Co., LTD.	Pending
1136	2016115536	RU	Samsung Electronics Co., LTD.	Pending
1137	US9720745	US	Samsung Electronics Co., LTD.	Granted
1138	US15/647875	US	Samsung Electronics Co., LTD.	Pending
1139	201580004274.0	CN	Samsung Electronics Co., LTD.	Pending
1140	15734991.1	EP	Samsung Electronics Co., LTD.	Pending
1141	201617026265	IN	Samsung Electronics Co., LTD.	Pending
1142	2016-545846	JP	Samsung Electronics Co., LTD.	Pending
1143	P20140003093	KR	Samsung Electronics Co., LTD.	Pending
1144	US14/593435	US	Samsung Electronics Co., LTD.	Pending
1145	201580017259.X	CN	Samsung Electronics Co., LTD.	Pending
1146	15772654.8	EP	Samsung Electronics Co., LTD.	Pending
1147	2016-558747	JP	Samsung Electronics Co., LTD.	Pending
1148	P20140037341	KR	Samsung Electronics Co., LTD.	Pending
1149	US14/671359	US	Samsung Electronics Co., LTD.	Pending

1150	201580017090.8	CN	Samsung Electronics Co., LTD.	Pending
1151	15768498.6	EP	Samsung Electronics Co., LTD.	Pending
1152	201617035895	IN	Samsung Electronics Co., LTD.	Pending
1153	2016-558749	JP	Samsung Electronics Co., LTD.	Pending
1154	P20140037265	KR	Samsung Electronics Co., LTD.	Pending
1155	US15/129294	US	Samsung Electronics Co., LTD.	Pending
1156	201580015803.7	CN	Samsung Electronics Co., LTD.	Pending
1157	15768788.0	EP	Samsung Electronics Co., LTD.	Pending
1158	201617034843	IN	Samsung Electronics Co., LTD.	Pending
1159	2016-559620	JP	Samsung Electronics Co., LTD.	Pending
1160	P20140037261	KR	Samsung Electronics Co., LTD.	Pending
1161	P20167021068	KR	Samsung Electronics Co., LTD.	Pending
1162	US15/129624	US	Samsung Electronics Co., LTD.	Pending
1163	201580041106.9	CN	Samsung Electronics Co., LTD.	Pending
1164	2017-500077	JP	Samsung Electronics Co., LTD.	Pending
1165	P20140083996	KR	Samsung Electronics Co., LTD.	Pending
1166	US15/323674	US	Samsung Electronics Co., LTD.	Pending
1167	201580036656.1	CN	Samsung Electronics Co., LTD.	Pending
1168	2017-500078	JP	Samsung Electronics Co., LTD.	Pending
1169	P20140083990	KR	Samsung Electronics Co., LTD.	Pending
1170	US15/323592	US	Samsung Electronics Co., LTD.	Pending
1171	1120160064038	BR	Samsung Electronics Co., LTD.	Pending
1172	2,925,284	CA	Samsung Electronics Co., LTD.	Pending
1173	201480052311.0	CN	Samsung Electronics Co., LTD.	Pending
1174	14846282.3	EP	Samsung Electronics Co., LTD.	Pending
1175	201617013958	IN	Samsung Electronics Co., LTD.	Pending
1176	2016-516562	JP	Samsung Electronics Co., LTD.	Pending
1177	P20140063216	KR	Samsung Electronics Co., LTD.	Pending
1178	MX/a/2016/003821	MX	Samsung Electronics Co., LTD.	Pending
1179	2016115528	RU	Samsung Electronics Co., LTD.	Pending
1180	US15/023923	US	Samsung Electronics Co., LTD.	Pending
1181	201580033401.X	CN	Samsung Electronics Co., LTD.	Pending
1182	15809947.3	EP	Samsung Electronics Co., LTD.	Pending

1183	2017-519437	JP	Samsung Electronics Co., LTD.	Pending
1184	P20140075757	KR	Samsung Electronics Co., LTD.	Pending
1185	US15/320546	US	Samsung Electronics Co., LTD.	Pending
1186	201580033427.4	CN	Samsung Electronics Co., LTD.	Pending
1187	15810288.9	EP	Samsung Electronics Co., LTD.	Pending
1188	2017-519435	JP	Samsung Electronics Co., LTD.	Pending
1189	P20140076091	KR	Samsung Electronics Co., LTD.	Pending
1190	US15/320661	US	Samsung Electronics Co., LTD.	Pending
1191	201580047294.6	CN	Samsung Electronics Co., LTD.	Pending
1192	2017-500081	JP	Samsung Electronics Co., LTD.	Pending
1193	P20140083199	KR	Samsung Electronics Co., LTD.	Pending
1194	US15/323612	US	Samsung Electronics Co., LTD.	Pending
1195	5512038	JP	Samsung Electronics Co., LTD.	Granted
1196	US8638818	US	Samsung Electronics Co., LTD.	Granted
1197	KR2011/002836	WO	Samsung Electronics Co., LTD.	Pending
1198	US14/158177	US	Samsung Electronics Co., LTD.	Pending
1199	P20100036180	KR	Samsung Electronics Co., LTD.	Pending
1200	11772225.6	EP	Samsung Electronics Co., LTD.	Pending
1201	201180020090.5	CN	Samsung Electronics Co., LTD.	Pending
1202	5897603	JP	Samsung Electronics Co., LTD.	Granted
1203	PCT/KR2012/000505	WO	Samsung Electronics Co., LTD.	Pending
1204	US13/980443	US	Samsung Electronics Co., LTD.	Pending
1205	P20110005625	KR	Samsung Electronics Co., LTD.	Pending
1206	2016-39849	JP	Samsung Electronics Co., LTD.	Pending
1207	6482/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
1208	12736581.5	EP	Samsung Electronics Co., LTD.	Pending
1209	201280014043.4	CN	Samsung Electronics Co., LTD.	Pending
1210	2012207719	AU	Samsung Electronics Co., LTD.	Pending
1211	2012207725	AU	Samsung Electronics Co., LTD.	Granted
1212	US8544052	US	Samsung Electronics Co., LTD.	Granted
1213	US9009347	US	Samsung Electronics Co., LTD.	Granted
1214	PCT/KR2012/000514	WO	Samsung Electronics Co., LTD.	Pending
1215	US14/684808	US	Samsung Electronics Co., LTD.	Pending

1216	P20137021764	KR	Samsung Electronics Co., LTD.	Pending
1217	P20110005650	KR	Samsung Electronics Co., LTD.	Pending
1218	2013-550410	JP	Samsung Electronics Co., LTD.	Pending
1219	2441/KOLNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1220	12736315.8	EP	Samsung Electronics Co., LTD.	Pending
1221	201280005850.X	CN	Samsung Electronics Co., LTD.	Pending
1222	PCT/KR2012/001908	WO	Samsung Electronics Co., LTD.	Pending
1223	US13/421375	US	Samsung Electronics Co., LTD.	Pending
1224	P20110023578	KR	Samsung Electronics Co., LTD.	Pending
1225	12757912.6	EP	Samsung Electronics Co., LTD.	Pending
1226	US9191032	US	Samsung Electronics Co., LTD.	Granted
1227	PCT/KR2012/004559	WO	Samsung Electronics Co., LTD.	Pending
1228	US14/942381	US	Samsung Electronics Co., LTD.	Pending
1229	2014100886	RU	Samsung Electronics Co., LTD.	Pending
1230	P20110056562	KR	Samsung Electronics Co., LTD.	Pending
1231	2014-515715	JP	Samsung Electronics Co., LTD.	Pending
1232	18/KOLNP/2014	IN	Samsung Electronics Co., LTD.	Pending
1233	12801048.5	EP	Samsung Electronics Co., LTD.	Pending
1234	201280039247.3	CN	Samsung Electronics Co., LTD.	Pending
1235	2012270387	AU	Samsung Electronics Co., LTD.	Pending
1236	PCT/KR2012/004666	WO	Samsung Electronics Co., LTD.	Pending
1237	US13/495429	US	Samsung Electronics Co., LTD.	Pending
1238	2014100914	RU	Samsung Electronics Co., LTD.	Pending
1239	P20110057714	KR	Samsung Electronics Co., LTD.	Pending
1240	2014-515746	JP	Samsung Electronics Co., LTD.	Pending
1241	19/KOLNP/2014	IN	Samsung Electronics Co., LTD.	Pending
1242	12799847.4	EP	Samsung Electronics Co., LTD.	Pending
1243	201280029677.7	CN	Samsung Electronics Co., LTD.	Pending
1244	2012270417	AU	Samsung Electronics Co., LTD.	Pending
1245	US8769369	US	Samsung Electronics Co., LTD.	Granted
1246	PCT/KR2012/005386	WO	Samsung Electronics Co., LTD.	Pending
1247	US15/229889	US	Samsung Electronics Co., LTD.	Pending
1248	US14/313353	US	Samsung Electronics Co., LTD.	Pending

1249	P20110068098	KR	Samsung Electronics Co., LTD.	Pending
1250	2014-518829	JP	Samsung Electronics Co., LTD.	Pending
1251	12812110	EP	Samsung Electronics Co., LTD.	Pending
1252	201610158780.1	CN	Samsung Electronics Co., LTD.	Pending
1253	201280033919.X	CN	Samsung Electronics Co., LTD.	Pending
1254	5860158	JP	Samsung Electronics Co., LTD.	Granted
1255	PCT/KR2012/008377	WO	Samsung Electronics Co., LTD.	Pending
1256	US13/651815	US	Samsung Electronics Co., LTD.	Pending
1257	P20150024328	KR	Samsung Electronics Co., LTD.	Pending
1258	P20110104879	KR	Samsung Electronics Co., LTD.	Pending
1259	2015-246544	JP	Samsung Electronics Co., LTD.	Pending
1260	3346/CHENP/2014	IN	Samsung Electronics Co., LTD.	Pending
1261	12839590.2	EP	Samsung Electronics Co., LTD.	Pending
1262	201280061383.2	CN	Samsung Electronics Co., LTD.	Pending
1263	2,852,002	CA	Samsung Electronics Co., LTD.	Pending
1264	2012321424	AU	Samsung Electronics Co., LTD.	Pending
1265	PCT/KR2012/008389	WO	Samsung Electronics Co., LTD.	Pending
1266	US13/650408	US	Samsung Electronics Co., LTD.	Pending
1267	P20110104888	KR	Samsung Electronics Co., LTD.	Pending
1268	2014-535657	JP	Samsung Electronics Co., LTD.	Pending
1269	12839976.3	EP	Samsung Electronics Co., LTD.	Pending
1270	201280049863.7	CN	Samsung Electronics Co., LTD.	Pending
1271	P1626686	KR	Samsung Electronics Co., LTD.	Granted
1272	PCT/KR2012/008404	WO	Samsung Electronics Co., LTD.	Pending
1273	US14/351419	US	Samsung Electronics Co., LTD.	Pending
1274	P20157035434	KR	Samsung Electronics Co., LTD.	Pending
1275	P20110104892	KR	Samsung Electronics Co., LTD.	Pending
1276	2014-535664	JP	Samsung Electronics Co., LTD.	Pending
1277	12840497.7	EP	Samsung Electronics Co., LTD.	Pending
1278	201280061956.1	CN	Samsung Electronics Co., LTD.	Pending
1279	2,852,204	CA	Samsung Electronics Co., LTD.	Pending
1280	PCT/KR2012/009968	WO	Samsung Electronics Co., LTD.	Pending
1281	US14/360480	US	Samsung Electronics Co., LTD.	Pending

1282	P20110123878	KR	Samsung Electronics Co., LTD.	Pending
1283	2014-543420	JP	Samsung Electronics Co., LTD.	Pending
1284	12851568.1	EP	Samsung Electronics Co., LTD.	Pending
1285	201280068020.1	CN	Samsung Electronics Co., LTD.	Pending
1286	PCT/KR2012/010311	WO	Samsung Electronics Co., LTD.	Pending
1287	US14/974888	US	Samsung Electronics Co., LTD.	Pending
1288	US13/690808	US	Samsung Electronics Co., LTD.	Pending
1289	P20147018166	KR	Samsung Electronics Co., LTD.	Pending
1290	P20110127366	KR	Samsung Electronics Co., LTD.	Pending
1291	2014-544672	JP	Samsung Electronics Co., LTD.	Pending
1292	12853877.4	EP	Samsung Electronics Co., LTD.	Pending
1293	201280058688.8	CN	Samsung Electronics Co., LTD.	Pending
1294	336523	MX	Samsung Electronics Co., LTD.	Granted
1295	US9043682	US	Samsung Electronics Co., LTD.	Granted
1296	PCT/KR2013/001587	WO	Samsung Electronics Co., LTD.	Pending
1297	US15/243055	US	Samsung Electronics Co., LTD.	Pending
1298	US14/720141	US	Samsung Electronics Co., LTD.	Pending
1299	P20120112032	KR	Samsung Electronics Co., LTD.	Pending
1300	2014-559828	JP	Samsung Electronics Co., LTD.	Pending
1301	13754486.2	EP	Samsung Electronics Co., LTD.	Pending
1302	201380016464.5	CN	Samsung Electronics Co., LTD.	Pending
1303	PCT/KR2013/003955	WO	Samsung Electronics Co., LTD.	Pending
1304	US13/888663	US	Samsung Electronics Co., LTD.	Pending
1305	MX/a/2014/013560	MX	Samsung Electronics Co., LTD.	Pending
1306	P20120050291	KR	Samsung Electronics Co., LTD.	Pending
1307	2015-511356	JP	Samsung Electronics Co., LTD.	Pending
1308	2775/KOLNP/2014	IN	Samsung Electronics Co., LTD.	Pending
1309	13787421	EP	Samsung Electronics Co., LTD.	Pending
1310	201380024021.0	CN	Samsung Electronics Co., LTD.	Pending
1311	2,873,024	CA	Samsung Electronics Co., LTD.	Pending
1312	2013260417	AU	Samsung Electronics Co., LTD.	Pending
1313	5947454	JP	Samsung Electronics Co., LTD.	Granted
1314	P1501347	KR	Samsung Electronics Co., LTD.	Granted

1315	PCT/KR2013/003582	WO	Samsung Electronics Co., LTD.	Pending
1316	US14/397055	US	Samsung Electronics Co., LTD.	Pending
1317	2014147209	RU	Samsung Electronics Co., LTD.	Pending
1318	MX/a/2014/012947	MX	Samsung Electronics Co., LTD.	Pending
1319	2016-54413	JP	Samsung Electronics Co., LTD.	Pending
1320	2604/KOLNP/2014	IN	Samsung Electronics Co., LTD.	Pending
1321	13782460.3	EP	Samsung Electronics Co., LTD.	Pending
1322	201380025465.6	CN	Samsung Electronics Co., LTD.	Pending
1323	2,871,578	CA	Samsung Electronics Co., LTD.	Pending
1324	331164	MX	Samsung Electronics Co., LTD.	Granted
1325	337351	MX	Samsung Electronics Co., LTD.	Granted
1326	US8918697	US	Samsung Electronics Co., LTD.	Granted
1327	US9059741	US	Samsung Electronics Co., LTD.	Granted
1328	PCT/KR2012/009466	WO	Samsung Electronics Co., LTD.	Pending
1329	US14/739825	US	Samsung Electronics Co., LTD.	Pending
1330	P20120111459	KR	Samsung Electronics Co., LTD.	Pending
1331	2014-540953	JP	Samsung Electronics Co., LTD.	Pending
1332	12848353.4	EP	Samsung Electronics Co., LTD.	Pending
1333	201280055114.5	CN	Samsung Electronics Co., LTD.	Pending
1334	2,854,738	CA	Samsung Electronics Co., LTD.	Pending
1335	PCT/KR2013/009116	WO	Samsung Electronics Co., LTD.	Pending
1336	US14/051707	US	Samsung Electronics Co., LTD.	Pending
1337	2015117638	RU	Samsung Electronics Co., LTD.	Pending
1338	MX/a/2015/004597	MX	Samsung Electronics Co., LTD.	Pending
1339	P20120113052	KR	Samsung Electronics Co., LTD.	Pending
1340	2015-536717	JP	Samsung Electronics Co., LTD.	Pending
1341	1055/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1342	13845071.3	EP	Samsung Electronics Co., LTD.	Pending
1343	201380053506.2	CN	Samsung Electronics Co., LTD.	Pending
1344	2,887,999	CA	Samsung Electronics Co., LTD.	Pending
1345	PCT/KR2013/009150	WO	Samsung Electronics Co., LTD.	Pending
1346	US14/944595	US	Samsung Electronics Co., LTD.	Pending
1347	US14/054293	US	Samsung Electronics Co., LTD.	Pending

1348	2015117516	RU	Samsung Electronics Co., LTD.	Pending
1349	MX/a/2015/004602	MX	Samsung Electronics Co., LTD.	Pending
1350	P20120113841	KR	Samsung Electronics Co., LTD.	Pending
1351	2015-536719	JP	Samsung Electronics Co., LTD.	Pending
1352	1161/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1353	13846199.1	EP	Samsung Electronics Co., LTD.	Pending
1354	201380053379.6	CN	Samsung Electronics Co., LTD.	Pending
1355	2,888,004	CA	Samsung Electronics Co., LTD.	Pending
1356	2013330543	AU	Samsung Electronics Co., LTD.	Pending
1357	5947455	JP	Samsung Electronics Co., LTD.	Granted
1358	P1501344	KR	Samsung Electronics Co., LTD.	Granted
1359	PCT/KR2013/003808	WO	Samsung Electronics Co., LTD.	Pending
1360	US14/398645	US	Samsung Electronics Co., LTD.	Pending
1361	MX/a/2014/013277	MX	Samsung Electronics Co., LTD.	Pending
1362	2016-045771	JP	Samsung Electronics Co., LTD.	Pending
1363	2764/KOLNP/2014	IN	Samsung Electronics Co., LTD.	Pending
1364	13784923.8	EP	Samsung Electronics Co., LTD.	Pending
1365	201380035064.9	CN	Samsung Electronics Co., LTD.	Pending
1366	2872506	CA	Samsung Electronics Co., LTD.	Pending
1367	2013255124	AU	Samsung Electronics Co., LTD.	Pending
1368	PCT/KR2014/003362	WO	Samsung Electronics Co., LTD.	Pending
1369	US15/225132	US	Samsung Electronics Co., LTD.	Pending
1370	US14/255215	US	Samsung Electronics Co., LTD.	Pending
1371	2015148959	RU	Samsung Electronics Co., LTD.	Pending
1372	MX/a/2015/014696	MX	Samsung Electronics Co., LTD.	Pending
1373	P20130042045	KR	Samsung Electronics Co., LTD.	Pending
1374	2016-508872	JP	Samsung Electronics Co., LTD.	Pending
1375	3153/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1376	14785047.3	EP	Samsung Electronics Co., LTD.	Pending
1377	201480034288.2	CN	Samsung Electronics Co., LTD.	Pending
1378	2,909,801	CA	Samsung Electronics Co., LTD.	Pending
1379	PCT/KR2013/003731	WO	Samsung Electronics Co., LTD.	Pending
1380	US15/234627	US	Samsung Electronics Co., LTD.	Pending

1381	US14/811068	US	Samsung Electronics Co., LTD.	Pending
1382	US13/873739	US	Samsung Electronics Co., LTD.	Pending
1383	P20130045082	KR	Samsung Electronics Co., LTD.	Pending
1384	2015-510181	JP	Samsung Electronics Co., LTD.	Pending
1385	13784446	EP	Samsung Electronics Co., LTD.	Pending
1386	201380022904.8	CN	Samsung Electronics Co., LTD.	Pending
1387	5898380	JP	Samsung Electronics Co., LTD.	Granted
1388	P1484843	KR	Samsung Electronics Co., LTD.	Granted
1389	PCT/KR2014/003470	WO	Samsung Electronics Co., LTD.	Pending
1390	US14/257249	US	Samsung Electronics Co., LTD.	Pending
1391	2015149465	RU	Samsung Electronics Co., LTD.	Pending
1392	MX/a/2015/014695	MX	Samsung Electronics Co., LTD.	Pending
1393	2016-041616	JP	Samsung Electronics Co., LTD.	Pending
1394	10445/DELNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1395	14785165.3	EP	Samsung Electronics Co., LTD.	Pending
1396	201480022346.X	CN	Samsung Electronics Co., LTD.	Pending
1397	2,909,906	CA	Samsung Electronics Co., LTD.	Pending
1398	PCT/KR2013/006389	WO	Samsung Electronics Co., LTD.	Pending
1399	US13/944265	US	Samsung Electronics Co., LTD.	Pending
1400	P20120077856	KR	Samsung Electronics Co., LTD.	Pending
1401	2015-523008	JP	Samsung Electronics Co., LTD.	Pending
1402	823/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1403	13819236.4	EP	Samsung Electronics Co., LTD.	Pending
1404	201380038076.7	CN	Samsung Electronics Co., LTD.	Pending
1405	PCT/KR2014/006549	WO	Samsung Electronics Co., LTD.	Pending
1406	US14/906183	US	Samsung Electronics Co., LTD.	Pending
1407	PI2016700168	MY	Samsung Electronics Co., LTD.	Pending
1408	MX/a/2016/000718	MX	Samsung Electronics Co., LTD.	Pending
1409	P20130084877	KR	Samsung Electronics Co., LTD.	Pending
1410	2016-527939	JP	Samsung Electronics Co., LTD.	Pending
1411	201627004231	IN	Samsung Electronics Co., LTD.	Pending
1412	P-00201601064	ID	Samsung Electronics Co., LTD.	Pending
1413	14826773.5	EP	Samsung Electronics Co., LTD.	Pending

1414	201480040849.X	CN	Samsung Electronics Co., LTD.	Pending
1415	1120160009134	BR	Samsung Electronics Co., LTD.	Pending
1416	2014290953	AU	Samsung Electronics Co., LTD.	Pending
1417	PCT/KR2015/000358	WO	Samsung Electronics Co., LTD.	Pending
1418	US15/111322	US	Samsung Electronics Co., LTD.	Pending
1419	P20167022057	KR	Samsung Electronics Co., LTD.	Pending
1420	P20140004256	KR	Samsung Electronics Co., LTD.	Pending
1421	201617026673	IN	Samsung Electronics Co., LTD.	Pending
1422	PCT/KR2013/009049	WO	Samsung Electronics Co., LTD.	Pending
1423	US14/049022	US	Samsung Electronics Co., LTD.	Pending
1424	2015117519	RU	Samsung Electronics Co., LTD.	Pending
1425	MX/a/2015/004596	MX	Samsung Electronics Co., LTD.	Pending
1426	P20157012135	KR	Samsung Electronics Co., LTD.	Pending
1427	2015-536713	JP	Samsung Electronics Co., LTD.	Pending
1428	1159/KOLNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1429	13845741.1	EP	Samsung Electronics Co., LTD.	Pending
1430	201380053098.0	CN	Samsung Electronics Co., LTD.	Pending
1431	2,887,997	CA	Samsung Electronics Co., LTD.	Pending
1432	2013330649	AU	Samsung Electronics Co., LTD.	Pending
1433	P1484903	KR	Samsung Electronics Co., LTD.	Granted
1434	PCT/KR2013/010932	WO	Samsung Electronics Co., LTD.	Pending
1435	US14/091243	US	Samsung Electronics Co., LTD.	Pending
1436	2015125573	RU	Samsung Electronics Co., LTD.	Pending
1437	MX/a/2015/006835	MX	Samsung Electronics Co., LTD.	Pending
1438	2016-110819	JP	Samsung Electronics Co., LTD.	Pending
1439	2015-523032	JP	Samsung Electronics Co., LTD.	Pending
1440	4995/DELNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1441	13858997.3	EP	Samsung Electronics Co., LTD.	Pending
1442	201380062645.1	CN	Samsung Electronics Co., LTD.	Pending
1443	2,893,122	CA	Samsung Electronics Co., LTD.	Pending
1444	2013352767	AU	Samsung Electronics Co., LTD.	Pending
1445	5883199	JP	Samsung Electronics Co., LTD.	Granted
1446	P1530825	KR	Samsung Electronics Co., LTD.	Granted

1447	PCT/KR2014/006829	WO	Samsung Electronics Co., LTD.	Pending
1448	1-2016-00670	VN	Samsung Electronics Co., LTD.	Pending
1449	US14/178212	US	Samsung Electronics Co., LTD.	Pending
1450	PI2016700246	MY	Samsung Electronics Co., LTD.	Pending
1451	MX/a/2016/001137	MX	Samsung Electronics Co., LTD.	Pending
1452	P20150000130	KR	Samsung Electronics Co., LTD.	Pending
1453	2016-020212	JP	Samsung Electronics Co., LTD.	Pending
1454	201627004307	IN	Samsung Electronics Co., LTD.	Pending
1455	P-00201601111	ID	Samsung Electronics Co., LTD.	Pending
1456	14828733.7	EP	Samsung Electronics Co., LTD.	Pending
1457	201480042072.0	CN	Samsung Electronics Co., LTD.	Pending
1458	1120160016610	BR	Samsung Electronics Co., LTD.	Pending
1459	2014293819	AU	Samsung Electronics Co., LTD.	Pending
1460	PCT/KR2015/006601	WO	Samsung Electronics Co., LTD.	Pending
1461	P20150091586	KR	Samsung Electronics Co., LTD.	Pending
1462	PCT/KR2015/003680	WO	Samsung Electronics Co., LTD.	Pending
1463	PCT/KR2015/003130	WO	Samsung Electronics Co., LTD.	Pending
1464	PCT/KR2015/002895	WO	Samsung Electronics Co., LTD.	Pending
1465	PCT/KR2015/002894	WO	Samsung Electronics Co., LTD.	Pending
1466	PCT/KR2015/002891	WO	Samsung Electronics Co., LTD.	Pending
1467	PCT/KR2015/000303	WO	Samsung Electronics Co., LTD.	Pending
1468	1-2016-02881	VN	Samsung Electronics Co., LTD.	Pending
1469	US15/110861	US	Samsung Electronics Co., LTD.	Pending
1470	P20140003619	KR	Samsung Electronics Co., LTD.	Pending
1471	201627025473	IN	Samsung Electronics Co., LTD.	Pending
1472	15734960.6	EP	Samsung Electronics Co., LTD.	Pending
1473	BR1120160160088	BR	Samsung Electronics Co., LTD.	Pending
1474	PCT/KR2014/010134	WO	Samsung Electronics Co., LTD.	Pending
1475	1-2016-01418	VN	Samsung Electronics Co., LTD.	Pending
1476	US15/029143	US	Samsung Electronics Co., LTD.	Pending
1477	MX/a/2016/004750	MX	Samsung Electronics Co., LTD.	Pending
1478	P20130128038	KR	Samsung Electronics Co., LTD.	Pending
1479	2016-523302	JP	Samsung Electronics Co., LTD.	Pending

1480	201627011756	IN	Samsung Electronics Co., LTD.	Pending
1481	14855641.8	EP	Samsung Electronics Co., LTD.	Pending
1482	201480058551.1	CN	Samsung Electronics Co., LTD.	Pending
1483	PCT/KR2014/002643	WO	Samsung Electronics Co., LTD.	Pending
1484	1-2015-04048	VN	Samsung Electronics Co., LTD.	Pending
1485	US14/781235	US	Samsung Electronics Co., LTD.	Pending
1486	1501005954	TH	Samsung Electronics Co., LTD.	Pending
1487	11201507726X	SG	Samsung Electronics Co., LTD.	Pending
1488	2015146225	RU	Samsung Electronics Co., LTD.	Pending
1489	PI2015703394	MY	Samsung Electronics Co., LTD.	Pending
1490	MX/a/2015/013783	MX	Samsung Electronics Co., LTD.	Pending
1491	P20157022453	KR	Samsung Electronics Co., LTD.	Pending
1492	2015-562940	JP	Samsung Electronics Co., LTD.	Pending
1493	2842/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1494	P-00201506926	ID	Samsung Electronics Co., LTD.	Pending
1495	14773799.3	EP	Samsung Electronics Co., LTD.	Pending
1496	201480019359.1	CN	Samsung Electronics Co., LTD.	Pending
1497	2908037	CA	Samsung Electronics Co., LTD.	Pending
1498	1120150246923	BR	Samsung Electronics Co., LTD.	Pending
1499	2014244722	AU	Samsung Electronics Co., LTD.	Pending
1500	PCT/KR2013/011182	WO	Samsung Electronics Co., LTD.	Pending
1501	1-2015-02444	VN	Samsung Electronics Co., LTD.	Pending
1502	US14/649824	US	Samsung Electronics Co., LTD.	Pending
1503	1501003095	TH	Samsung Electronics Co., LTD.	Pending
1504	11201504368V	SG	Samsung Electronics Co., LTD.	Pending
1505	2015126777	RU	Samsung Electronics Co., LTD.	Pending
1506	PI2015701775	MY	Samsung Electronics Co., LTD.	Pending
1507	MX/a/2015/007100	MX	Samsung Electronics Co., LTD.	Pending
1508	P20157018083	KR	Samsung Electronics Co., LTD.	Pending
1509	2015-546386	JP	Samsung Electronics Co., LTD.	Pending
1510	1771/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1511	P-00201504108	ID	Samsung Electronics Co., LTD.	Pending
1512	13861015.9	EP	Samsung Electronics Co., LTD.	Pending

1513	201380072141.8	CN	Samsung Electronics Co., LTD.	Pending
1514	2893729	CA	Samsung Electronics Co., LTD.	Pending
1515	BR1120150131549	BR	Samsung Electronics Co., LTD.	Pending
1516	2013355504	AU	Samsung Electronics Co., LTD.	Pending
1517	PCT/KR2013/000047	WO	Samsung Electronics Co., LTD.	Pending
1518	US14/324740	US	Samsung Electronics Co., LTD.	Pending
1519	P20130001218	KR	Samsung Electronics Co., LTD.	Pending
1520	13733650.9	EP	Samsung Electronics Co., LTD.	Pending
1521	KR2011/004937	WO	Samsung Electronics Co., LTD.	Pending
1522	1-2013-00418	VN	Samsung Electronics Co., LTD.	Pending
1523	US13/177903	US	Samsung Electronics Co., LTD.	Pending
1524	1301000042	TH	Samsung Electronics Co., LTD.	Pending
1525	186868	SG	Samsung Electronics Co., LTD.	Granted
1526	2015134326	RU	Samsung Electronics Co., LTD.	Pending
1527	2564050	RU	Samsung Electronics Co., LTD.	Granted
1528	PI2013000036	MY	Samsung Electronics Co., LTD.	Pending
1529	313557	MX	Samsung Electronics Co., LTD.	Granted
1530	P20100137232	KR	Samsung Electronics Co., LTD.	Pending
1531	2016-047473	JP	Samsung Electronics Co., LTD.	Pending
1532	2013-518274	JP	Samsung Electronics Co., LTD.	Pending
1533	268/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1534	W-00201300527	ID	Samsung Electronics Co., LTD.	Pending
1535	11803793.6	EP	Samsung Electronics Co., LTD.	Pending
1536	201510818493.4	CN	Samsung Electronics Co., LTD.	Pending
1537	201180042811.2	CN	Samsung Electronics Co., LTD.	Pending
1538	2804346	CA	Samsung Electronics Co., LTD.	Pending
1539	BR112013000328-6	BR	Samsung Electronics Co., LTD.	Pending
1540	2015207829	AU	Samsung Electronics Co., LTD.	Pending
1541	2011274709	AU	Samsung Electronics Co., LTD.	Pending
1542	PCT/KR2015/011799	WO	Samsung Electronics Co., LTD.	Pending
1543	US14/932320	US	Samsung Electronics Co., LTD.	Pending
1544	P20150154332	KR	Samsung Electronics Co., LTD.	Pending
1545	PCT/KR2016/006144	WO	Samsung Electronics Co., LTD.	Pending

1546	US15/177481	US	Samsung Electronics Co., LTD.	Pending
1547	P20160016444	KR	Samsung Electronics Co., LTD.	Pending
1548	PCT/KR2016/006143	WO	Samsung Electronics Co., LTD.	Pending
1549	US15/177522	US	Samsung Electronics Co., LTD.	Pending
1550	P20160016379	KR	Samsung Electronics Co., LTD.	Pending
1551	PCT/KR2016/006142	WO	Samsung Electronics Co., LTD.	Pending
1552	US15/177469	US	Samsung Electronics Co., LTD.	Pending
1553	P20160016406	KR	Samsung Electronics Co., LTD.	Pending
1554	PCT/KR2016/000137	WO	Samsung Electronics Co., LTD.	Pending
1555	US14/989894	US	Samsung Electronics Co., LTD.	Pending
1556	P20150177018	KR	Samsung Electronics Co., LTD.	Pending
1557	PCT/KR2015/012131	WO	Samsung Electronics Co., LTD.	Pending
1558	US14/938116	US	Samsung Electronics Co., LTD.	Pending
1559	P20150158268	KR	Samsung Electronics Co., LTD.	Pending
1560	PCT/KR2016/007138	WO	Samsung Electronics Co., LTD.	Pending
1561	US15/200238	US	Samsung Electronics Co., LTD.	Pending
1562	P20160014916	KR	Samsung Electronics Co., LTD.	Pending
1563	PCT/KR2016/002092	WO	Samsung Electronics Co., LTD.	Pending
1564	US15/058255	US	Samsung Electronics Co., LTD.	Pending
1565	P20150137189	KR	Samsung Electronics Co., LTD.	Pending
1566	PCT/KR2016/002090	WO	Samsung Electronics Co., LTD.	Pending
1567	US15/058364	US	Samsung Electronics Co., LTD.	Pending
1568	P20150137190	KR	Samsung Electronics Co., LTD.	Pending
1569	PCT/KR2016/001506	WO	Samsung Electronics Co., LTD.	Pending
1570	US15/044419	US	Samsung Electronics Co., LTD.	Pending
1571	P20150137191	KR	Samsung Electronics Co., LTD.	Pending
1572	PCT/KR2016/001820	WO	Samsung Electronics Co., LTD.	Pending
1573	US15/099998	US	Samsung Electronics Co., LTD.	Pending
1574	US15/052049	US	Samsung Electronics Co., LTD.	Pending
1575	P20150137187	KR	Samsung Electronics Co., LTD.	Pending
1576	US14/716427	US	Samsung Electronics Co., LTD.	Pending
1577	US14/716023	US	Samsung Electronics Co., LTD.	Pending
1578	US14/716283	US	Samsung Electronics Co., LTD.	Pending

1579	US14/715747	US	Samsung Electronics Co., LTD.	Pending
1580	US14/715892	US	Samsung Electronics Co., LTD.	Pending
1581	US14/715873	US	Samsung Electronics Co., LTD.	Pending
1582	US14/715817	US	Samsung Electronics Co., LTD.	Pending
1583	US14/714565	US	Samsung Electronics Co., LTD.	Pending
1584	US14/715845	US	Samsung Electronics Co., LTD.	Pending
1585	US14/716271	US	Samsung Electronics Co., LTD.	Pending
1586	US14/716093	US	Samsung Electronics Co., LTD.	Pending
1587	US14/715908	US	Samsung Electronics Co., LTD.	Pending
1588	US14/715795	US	Samsung Electronics Co., LTD.	Pending
1589	US14/716340	US	Samsung Electronics Co., LTD.	Pending
1590	US14/716222	US	Samsung Electronics Co., LTD.	Pending
1591	US14/716013	US	Samsung Electronics Co., LTD.	Pending
1592	US14/714530	US	Samsung Electronics Co., LTD.	Pending
1593	US14/715780	US	Samsung Electronics Co., LTD.	Pending
1594	US14/714624	US	Samsung Electronics Co., LTD.	Pending
1595	US14/715674	US	Samsung Electronics Co., LTD.	Pending
1596	US14/715861	US	Samsung Electronics Co., LTD.	Pending
1597	US14/714508	US	Samsung Electronics Co., LTD.	Pending
1598	US14/716324	US	Samsung Electronics Co., LTD.	Pending
1599	US14/716053	US	Samsung Electronics Co., LTD.	Pending
1600	US14/715941	US	Samsung Electronics Co., LTD.	Pending
1601	US14/715764	US	Samsung Electronics Co., LTD.	Pending
1602	US14/716287	US	Samsung Electronics Co., LTD.	Pending
1603	US14/716156	US	Samsung Electronics Co., LTD.	Pending
1604	US14/716365	US	Samsung Electronics Co., LTD.	Pending
1605	US14/716172	US	Samsung Electronics Co., LTD.	Pending
1606	PCT/KR2016/002088	WO	Samsung Electronics Co., LTD.	Pending
1607	US15/130040	US	Samsung Electronics Co., LTD.	Pending
1608	US15/058415	US	Samsung Electronics Co., LTD.	Pending
1609	P20150137186	KR	Samsung Electronics Co., LTD.	Pending
1610	PCT/KR2016/002086	WO	Samsung Electronics Co., LTD.	Pending
1611	US15/058515	US	Samsung Electronics Co., LTD.	Pending

1612	P20150137183	KR	Samsung Electronics Co., LTD.	Pending
1613	PCT/KR2016/002093	WO	Samsung Electronics Co., LTD.	Pending
1614	US15/130011	US	Samsung Electronics Co., LTD.	Pending
1615	US15/058318	US	Samsung Electronics Co., LTD.	Pending
1616	P20150137185	KR	Samsung Electronics Co., LTD.	Pending
1617	P20150137185	KR	Samsung Electronics Co., LTD.	Pending
1618	PCT/KR2016/002094	WO	Samsung Electronics Co., LTD.	Pending
1619	US15/058242	US	Samsung Electronics Co., LTD.	Pending
1620	PCT/KR2016/002091	WO	Samsung Electronics Co., LTD.	Pending
1621	US15/058348	US	Samsung Electronics Co., LTD.	Pending
1622	P20150137188	KR	Samsung Electronics Co., LTD.	Pending
1623	PCT/KR2016/002087	WO	Samsung Electronics Co., LTD.	Pending
1624	US15/058353	US	Samsung Electronics Co., LTD.	Pending
1625	P20150137184	KR	Samsung Electronics Co., LTD.	Pending
1626	PCT/KR2016/002074	WO	Samsung Electronics Co., LTD.	Pending
1627	US15/130181	US	Samsung Electronics Co., LTD.	Pending
1628	US15/058365	US	Samsung Electronics Co., LTD.	Pending
1629	P20150137181	KR	Samsung Electronics Co., LTD.	Pending
1630	PCT/KR2016/001885	WO	Samsung Electronics Co., LTD.	Pending
1631	US15/053058	US	Samsung Electronics Co., LTD.	Pending
1632	P20150137180	KR	Samsung Electronics Co., LTD.	Pending
1633	PCT/KR2016/001883	WO	Samsung Electronics Co., LTD.	Pending
1634	US15/053101	US	Samsung Electronics Co., LTD.	Pending
1635	P20150137179	KR	Samsung Electronics Co., LTD.	Pending
1636	PCT/KR2016/001880	WO	Samsung Electronics Co., LTD.	Pending
1637	US15/099825	US	Samsung Electronics Co., LTD.	Pending
1638	US15/053038	US	Samsung Electronics Co., LTD.	Pending
1639	P20150137178	KR	Samsung Electronics Co., LTD.	Pending
1640	PCT/KR2016/001500	WO	Samsung Electronics Co., LTD.	Pending
1641	US15/044266	US	Samsung Electronics Co., LTD.	Pending
1642	P20160014351	KR	Samsung Electronics Co., LTD.	Pending
1643	PCT/KR2016/000252	WO	Samsung Electronics Co., LTD.	Pending
1644	US14/992105	US	Samsung Electronics Co., LTD.	Pending

1645	P20150162420	KR	Samsung Electronics Co., LTD.	Pending
1646	PCT/KR2014/006024	WO	Samsung Electronics Co., LTD.	Pending
1647	1-2016-00511	VN	Samsung Electronics Co., LTD.	Pending
1648	US14/324436	US	Samsung Electronics Co., LTD.	Pending
1649	MX/a/2016/000010	MX	Samsung Electronics Co., LTD.	Pending
1650	P20140083647	KR	Samsung Electronics Co., LTD.	Pending
1651	14819774.2	EP	Samsung Electronics Co., LTD.	Pending
1652	201480038616.6	CN	Samsung Electronics Co., LTD.	Pending
1653	2917422	CA	Samsung Electronics Co., LTD.	Pending
1654	BR1120160001460	BR	Samsung Electronics Co., LTD.	Pending
1655	PCT/KR2015/001694	WO	Samsung Electronics Co., LTD.	Pending
1656	US15/130204	US	Samsung Electronics Co., LTD.	Pending
1657	US14/625862	US	Samsung Electronics Co., LTD.	Pending
1658	P20150000671	KR	Samsung Electronics Co., LTD.	Pending
1659	PCT/KR2015/005101	WO	Samsung Electronics Co., LTD.	Pending
1660	US15/130154	US	Samsung Electronics Co., LTD.	Pending
1661	US14/716124	US	Samsung Electronics Co., LTD.	Pending
1662	P20150000672	KR	Samsung Electronics Co., LTD.	Pending
1663	PCT/KR2015/005099	WO	Samsung Electronics Co., LTD.	Pending
1664	US15/130096	US	Samsung Electronics Co., LTD.	Pending
1665	US14/716132	US	Samsung Electronics Co., LTD.	Pending
1666	P20150000697	KR	Samsung Electronics Co., LTD.	Pending
1667	PCT/KR2015/005097	WO	Samsung Electronics Co., LTD.	Pending
1668	US14/716503	US	Samsung Electronics Co., LTD.	Pending
1669	P20150069924	KR	Samsung Electronics Co., LTD.	Pending
1670	PCT/KR2015/001191	WO	Samsung Electronics Co., LTD.	Pending
1671	US14/615148	US	Samsung Electronics Co., LTD.	Pending
1672	MX/a/2016/010164	MX	Samsung Electronics Co., LTD.	Pending
1673	P20150017971	KR	Samsung Electronics Co., LTD.	Pending
1674	15746125.2	EP	Samsung Electronics Co., LTD.	Pending
1675	BR1120160179455	BR	Samsung Electronics Co., LTD.	Pending
1676	PCT/KR2014/006125	WO	Samsung Electronics Co., LTD.	Pending
1677	US14/910948	US	Samsung Electronics Co., LTD.	Pending

1678	P20167003433	KR	Samsung Electronics Co., LTD.	Pending
1679	201627004230	IN	Samsung Electronics Co., LTD.	Pending
1680	GB1410222.2	GB	Samsung Electronics Co., LTD.	Pending
1681	201480050068.9	CN	Samsung Electronics Co., LTD.	Pending
1682	2919830	CA	Samsung Electronics Co., LTD.	Pending
1683	PCT/KR2015/002677	WO	Samsung Electronics Co., LTD.	Pending
1684	US15/130001	US	Samsung Electronics Co., LTD.	Pending
1685	US14/662379	US	Samsung Electronics Co., LTD.	Pending
1686	P20150000677	KR	Samsung Electronics Co., LTD.	Pending
1687	PCT/KR2015/001695	WO	Samsung Electronics Co., LTD.	Pending
1688	US15/099946	US	Samsung Electronics Co., LTD.	Pending
1689	US14/625795	US	Samsung Electronics Co., LTD.	Pending
1690	P20150024183	KR	Samsung Electronics Co., LTD.	Pending
1691	15751726.9	EP	Samsung Electronics Co., LTD.	Pending
1692	US14/527953	US	Samsung Electronics Co., LTD.	Pending
1693	P20140149342	KR	Samsung Electronics Co., LTD.	Pending
1694	PCT/KR2014/008223	WO	Samsung Electronics Co., LTD.	Pending
1695	1-2016-00860	VN	Samsung Electronics Co., LTD.	Pending
1696	US14/476872	US	Samsung Electronics Co., LTD.	Pending
1697	MX/a/2016/002827	MX	Samsung Electronics Co., LTD.	Pending
1698	P20140054756	KR	Samsung Electronics Co., LTD.	Pending
1699	201627009967	IN	Samsung Electronics Co., LTD.	Pending
1700	14842565.5	EP	Samsung Electronics Co., LTD.	Pending
1701	201480060384.4	CN	Samsung Electronics Co., LTD.	Pending
1702	2923467	CA	Samsung Electronics Co., LTD.	Pending
1703	BR1120160049152	BR	Samsung Electronics Co., LTD.	Pending
1704	PCT/KR2014/007226	WO	Samsung Electronics Co., LTD.	Pending
1705	1-2016-00740	VN	Samsung Electronics Co., LTD.	Pending
1706	US14/452133	US	Samsung Electronics Co., LTD.	Pending
1707	MX/a/2016/001582	MX	Samsung Electronics Co., LTD.	Pending
1708	P20140062575	KR	Samsung Electronics Co., LTD.	Pending
1709	201617007012	IN	Samsung Electronics Co., LTD.	Pending
1710	14834212.4	EP	Samsung Electronics Co., LTD.	Pending

1711	201480044670.1	CN	Samsung Electronics Co., LTD.	Pending
1712	2920150	CA	Samsung Electronics Co., LTD.	Pending
1713	BR1120160025024	BR	Samsung Electronics Co., LTD.	Pending
1714	US14/506771	US	Samsung Electronics Co., LTD.	Pending
1715	P20140134505	KR	Samsung Electronics Co., LTD.	Pending
1716	US14/506794	US	Samsung Electronics Co., LTD.	Pending
1717	P20140134441	KR	Samsung Electronics Co., LTD.	Pending
1718	PCT/KR2014/006646	WO	Samsung Electronics Co., LTD.	Pending
1719	1-2016-00626	VN	Samsung Electronics Co., LTD.	Pending
1720	US14/337435	US	Samsung Electronics Co., LTD.	Pending
1721	MX/a/2016/000901	MX	Samsung Electronics Co., LTD.	Pending
1722	P20140054762	KR	Samsung Electronics Co., LTD.	Pending
1723	201627005705	IN	Samsung Electronics Co., LTD.	Pending
1724	14828802	EP	Samsung Electronics Co., LTD.	Pending
1725	201480041602.X	CN	Samsung Electronics Co., LTD.	Pending
1726	2919139	CA	Samsung Electronics Co., LTD.	Pending
1727	BR1120160015240	BR	Samsung Electronics Co., LTD.	Pending
1728	US14/497635	US	Samsung Electronics Co., LTD.	Pending
1729	P20140129604	KR	Samsung Electronics Co., LTD.	Pending
1730	US14/497779	US	Samsung Electronics Co., LTD.	Pending
1731	P20140129606	KR	Samsung Electronics Co., LTD.	Pending
1732	US14/488549	US	Samsung Electronics Co., LTD.	Pending
1733	P20140123657	KR	Samsung Electronics Co., LTD.	Pending
1734	PCT/KR2014/005204	WO	Samsung Electronics Co., LTD.	Pending
1735	1-2016-00152	VN	Samsung Electronics Co., LTD.	Pending
1736	US14/303834	US	Samsung Electronics Co., LTD.	Pending
1737	MX/a/2015/017052	MX	Samsung Electronics Co., LTD.	Pending
1738	P20140058599	KR	Samsung Electronics Co., LTD.	Pending
1739	201647001007	IN	Samsung Electronics Co., LTD.	Pending
1740	14810282.5	EP	Samsung Electronics Co., LTD.	Pending
1741	201480033816.2	CN	Samsung Electronics Co., LTD.	Pending
1742	2915740	CA	Samsung Electronics Co., LTD.	Pending
1743	BR1120150311130	BR	Samsung Electronics Co., LTD.	Pending

1744	PCT/KR2014/005588	WO	Samsung Electronics Co., LTD.	Pending
1745	1-2016-00351	VN	Samsung Electronics Co., LTD.	Pending
1746	US14/243103	US	Samsung Electronics Co., LTD.	Pending
1747	MX/a/2015/017492	MX	Samsung Electronics Co., LTD.	Pending
1748	P20130096128	KR	Samsung Electronics Co., LTD.	Pending
1749	GB1311443.4	GB	Samsung Electronics Co., LTD.	Pending
1750	14818032.6	EP	Samsung Electronics Co., LTD.	Pending
1751	201480037117.5	CN	Samsung Electronics Co., LTD.	Pending
1752	2916943	CA	Samsung Electronics Co., LTD.	Pending
1753	BR1120150320678	BR	Samsung Electronics Co., LTD.	Pending
1754	PCT/KR2014/005592	WO	Samsung Electronics Co., LTD.	Pending
1755	1-2016-00370	VN	Samsung Electronics Co., LTD.	Pending
1756	US14/305028	US	Samsung Electronics Co., LTD.	Pending
1757	MX/a/2015/017350	MX	Samsung Electronics Co., LTD.	Pending
1758	P20130075725	KR	Samsung Electronics Co., LTD.	Pending
1759	3679/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1760	14818369.2	EP	Samsung Electronics Co., LTD.	Pending
1761	201480037109.0	CN	Samsung Electronics Co., LTD.	Pending
1762	2916946	CA	Samsung Electronics Co., LTD.	Pending
1763	BR1120150320694	BR	Samsung Electronics Co., LTD.	Pending
1764	KR2011/006462	WO	Samsung Electronics Co., LTD.	Pending
1765	US9386562	US	Samsung Electronics Co., LTD.	Granted
1766	US9179440	US	Samsung Electronics Co., LTD.	Granted
1767	US8804675	US	Samsung Electronics Co., LTD.	Granted
1768	311262	MX	Samsung Electronics Co., LTD.	Granted
1769	P20110088158	KR	Samsung Electronics Co., LTD.	Pending
1770	GB1014432.7	GB	Samsung Electronics Co., LTD.	Pending
1771	2809953	CA	Samsung Electronics Co., LTD.	Pending
1772	KR2010/008704	WO	Samsung Electronics Co., LTD.	Pending
1773	US14/842210	US	Samsung Electronics Co., LTD.	Pending
1774	US14/164870	US	Samsung Electronics Co., LTD.	Pending
1775	US8689093	US	Samsung Electronics Co., LTD.	Granted
1776	P20090120572	KR	Samsung Electronics Co., LTD.	Pending

1777	10836189	EP	Samsung Electronics Co., LTD.	Pending
1778	KR2010/008155	WO	Samsung Electronics Co., LTD.	Pending
1779	US14/873877	US	Samsung Electronics Co., LTD.	Pending
1780	US9154341	US	Samsung Electronics Co., LTD.	Granted
1781	US8707125	US	Samsung Electronics Co., LTD.	Granted
1782	P20127015593	KR	Samsung Electronics Co., LTD.	Pending
1783	P20090111489	KR	Samsung Electronics Co., LTD.	Pending
1784	5612699	JP	Samsung Electronics Co., LTD.	Granted
1785	5116/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
1786	10191630.2	EP	Samsung Electronics Co., LTD.	Pending
1787	ZL201080061781.5	CN	Samsung Electronics Co., LTD.	Granted
1788	2010322598	AU	Samsung Electronics Co., LTD.	Granted
1789	KR2009/001051	WO	Samsung Electronics Co., LTD.	Pending
1790	13658	VN	Samsung Electronics Co., LTD.	Granted
1791	US8352844	US	Samsung Electronics Co., LTD.	Granted
1792	I376907	TW	Samsung Electronics Co., LTD.	Granted
1793	2101431	TR	Samsung Electronics Co., LTD.	Granted
1794	2101430	TR	Samsung Electronics Co., LTD.	Granted
1795	2101431	SK	Samsung Electronics Co., LTD.	Granted
1796	2101430	SK	Samsung Electronics Co., LTD.	Granted
1797	2099150	SK	Samsung Electronics Co., LTD.	Granted
1798	2101431	SI	Samsung Electronics Co., LTD.	Granted
1799	2101430	SI	Samsung Electronics Co., LTD.	Granted
1800	164162	SG	Samsung Electronics Co., LTD.	Granted
1801	2101431	SE	Samsung Electronics Co., LTD.	Granted
1802	2101430	SE	Samsung Electronics Co., LTD.	Granted
1803	2099150	SE	Samsung Electronics Co., LTD.	Granted
1804	2453992	RU	Samsung Electronics Co., LTD.	Granted
1805	2101431	RO	Samsung Electronics Co., LTD.	Granted
1806	2101430	RO	Samsung Electronics Co., LTD.	Granted
1807	2101431	PT	Samsung Electronics Co., LTD.	Granted
1808	2101430	PT	Samsung Electronics Co., LTD.	Granted
1809	2101431	PL	Samsung Electronics Co., LTD.	Granted

1810	2101430	PL	Samsung Electronics Co., LTD.	Granted
1811	2099150	PL	Samsung Electronics Co., LTD.	Granted
1812	2101431	NO	Samsung Electronics Co., LTD.	Granted
1813	2101430	NO	Samsung Electronics Co., LTD.	Granted
1814	2101431	NL	Samsung Electronics Co., LTD.	Granted
1815	2099150	NL	Samsung Electronics Co., LTD.	Granted
1816	2101430	NL	Samsung Electronics Co., LTD.	Granted
1817	2099150	NL	Samsung Electronics Co., LTD.	Granted
1818	PI 2010004146	MY	Samsung Electronics Co., LTD.	Pending
1819	P20080019650	KR	Samsung Electronics Co., LTD.	Pending
1820	5670537	JP	Samsung Electronics Co., LTD.	Granted
1821	5441270	JP	Samsung Electronics Co., LTD.	Granted
1822	2101431	IT	Samsung Electronics Co., LTD.	Granted
1823	2101430	IT	Samsung Electronics Co., LTD.	Granted
1824	2099150	IT	Samsung Electronics Co., LTD.	Granted
1825	6970/DELNP/2010	IN	Samsung Electronics Co., LTD.	Pending
1826	IDP0032958	ID	Samsung Electronics Co., LTD.	Granted
1827	2101431	HU	Samsung Electronics Co., LTD.	Granted
1828	2101430	HU	Samsung Electronics Co., LTD.	Granted
1829	2099150	HU	Samsung Electronics Co., LTD.	Granted
1830	2101431	GR	Samsung Electronics Co., LTD.	Granted
1831	2101430	GR	Samsung Electronics Co., LTD.	Granted
1832	2101431	GB	Samsung Electronics Co., LTD.	Granted
1833	2101430	GB	Samsung Electronics Co., LTD.	Granted
1834	2099150	GB	Samsung Electronics Co., LTD.	Granted
1835	2101431	FR	Samsung Electronics Co., LTD.	Granted
1836	2101430	FR	Samsung Electronics Co., LTD.	Granted
1837	2099150	FR	Samsung Electronics Co., LTD.	Granted
1838	2101431	FI	Samsung Electronics Co., LTD.	Granted
1839	2101430	FI	Samsung Electronics Co., LTD.	Granted
1840	2099150	FI	Samsung Electronics Co., LTD.	Granted
1841	2101431	ES	Samsung Electronics Co., LTD.	Granted
1842	2101430	ES	Samsung Electronics Co., LTD.	Granted

1843	2099150	ES	Samsung Electronics Co., LTD.	Granted
1844	12160589.3	EP	Samsung Electronics Co., LTD.	Pending
1845	11177843.7	EP	Samsung Electronics Co., LTD.	Pending
1846	2101431	EP	Samsung Electronics Co., LTD.	Granted
1847	2101430	EP	Samsung Electronics Co., LTD.	Granted
1848	2099150	EP	Samsung Electronics Co., LTD.	Granted
1849	2101431	DK	Samsung Electronics Co., LTD.	Granted
1850	2101430	DK	Samsung Electronics Co., LTD.	Granted
1851	2101431	DE	Samsung Electronics Co., LTD.	Granted
1852	2101430	DE	Samsung Electronics Co., LTD.	Granted
1853	2099150	DE	Samsung Electronics Co., LTD.	Granted
1854	2101431	CZ	Samsung Electronics Co., LTD.	Granted
1855	2101430	CZ	Samsung Electronics Co., LTD.	Granted
1856	2099150	CZ	Samsung Electronics Co., LTD.	Granted
1857	201310227235.X	CN	Samsung Electronics Co., LTD.	Pending
1858	201310227250.4	CN	Samsung Electronics Co., LTD.	Pending
1859	ZL200980115022.X	CN	Samsung Electronics Co., LTD.	Granted
1860	2101431	CH	Samsung Electronics Co., LTD.	Granted
1861	2101430	CH	Samsung Electronics Co., LTD.	Granted
1862	2101431	BG	Samsung Electronics Co., LTD.	Granted
1863	2101430	BG	Samsung Electronics Co., LTD.	Granted
1864	2101431	BE	Samsung Electronics Co., LTD.	Granted
1865	2101430	BE	Samsung Electronics Co., LTD.	Granted
1866	2009220323	AU	Samsung Electronics Co., LTD.	Granted
1867	2101431	AT	Samsung Electronics Co., LTD.	Granted
1868	2101430	AT	Samsung Electronics Co., LTD.	Granted
1869	KR/2009/001027	WO	Samsung Electronics Co., LTD.	Pending
1870	US8533556	US	Samsung Electronics Co., LTD.	Granted
1871	US8321745	US	Samsung Electronics Co., LTD.	Granted
1872	P20080019607	KR	Samsung Electronics Co., LTD.	Pending
1873	5461728	JP	Samsung Electronics Co., LTD.	Granted
1874	5301575	JP	Samsung Electronics Co., LTD.	Granted
1875	6950/DELNP/2010	IN	Samsung Electronics Co., LTD.	Pending

1876	9154123.5	EP	Samsung Electronics Co., LTD.	Pending
1877	201310127349.7	CN	Samsung Electronics Co., LTD.	Pending
1878	ZL200980107576.5	CN	Samsung Electronics Co., LTD.	Granted
1879	2009220393	AU	Samsung Electronics Co., LTD.	Granted
1880	KR2008/007249	WO	Samsung Electronics Co., LTD.	Pending
1881	12905	VN	Samsung Electronics Co., LTD.	Granted
1882	US8166367	US	Samsung Electronics Co., LTD.	Granted
1883	2381583	SK	Samsung Electronics Co., LTD.	Granted
1884	2381582	SK	Samsung Electronics Co., LTD.	Granted
1885	2239854	SK	Samsung Electronics Co., LTD.	Granted
1886	2068449	SK	Samsung Electronics Co., LTD.	Granted
1887	201209001.5	SG	Samsung Electronics Co., LTD.	Granted
1888	161004	SG	Samsung Electronics Co., LTD.	Granted
1889	2381583	SE	Samsung Electronics Co., LTD.	Granted
1890	2381582	SE	Samsung Electronics Co., LTD.	Granted
1891	2239854	SE	Samsung Electronics Co., LTD.	Granted
1892	2068449	SE	Samsung Electronics Co., LTD.	Granted
1893	2491728	RU	Samsung Electronics Co., LTD.	Granted
1894	2491727	RU	Samsung Electronics Co., LTD.	Granted
1895	2446585	RU	Samsung Electronics Co., LTD.	Granted
1896	2381583	PL	Samsung Electronics Co., LTD.	Granted
1897	2381582	PL	Samsung Electronics Co., LTD.	Granted
1898	2239854	PL	Samsung Electronics Co., LTD.	Granted
1899	2068449	PL	Samsung Electronics Co., LTD.	Granted
1900	2381583	NL	Samsung Electronics Co., LTD.	Granted
1901	2381582	NL	Samsung Electronics Co., LTD.	Granted
1902	2239854	NL	Samsung Electronics Co., LTD.	Granted
1903	2068449	NL	Samsung Electronics Co., LTD.	Granted
1904	PI 2010002022	MY	Samsung Electronics Co., LTD.	Pending
1905	P20070126083	KR	Samsung Electronics Co., LTD.	Pending
1906	5441282	JP	Samsung Electronics Co., LTD.	Granted
1907	5302972	JP	Samsung Electronics Co., LTD.	Granted
1908	2381583	IT	Samsung Electronics Co., LTD.	Granted

1909	2381582	IT	Samsung Electronics Co., LTD.	Granted
1910	2239854	IT	Samsung Electronics Co., LTD.	Granted
1911	2068449	IT	Samsung Electronics Co., LTD.	Granted
1912	2067/KOLNP/2010	IN	Samsung Electronics Co., LTD.	Pending
1913	W00201302138	ID	Samsung Electronics Co., LTD.	Pending
1914	IDP000035518	ID	Samsung Electronics Co., LTD.	Granted
1915	2381583	HU	Samsung Electronics Co., LTD.	Granted
1916	2381582	HU	Samsung Electronics Co., LTD.	Granted
1917	2239854	HU	Samsung Electronics Co., LTD.	Granted
1918	2068449	HU	Samsung Electronics Co., LTD.	Granted
1919	2381583	GB	Samsung Electronics Co., LTD.	Granted
1920	2381582	GB	Samsung Electronics Co., LTD.	Granted
1921	2239854	GB	Samsung Electronics Co., LTD.	Granted
1922	2068449	GB	Samsung Electronics Co., LTD.	Granted
1923	2381583	FR	Samsung Electronics Co., LTD.	Granted
1924	2381582	FR	Samsung Electronics Co., LTD.	Granted
1925	2239854	FR	Samsung Electronics Co., LTD.	Granted
1926	2068449	FR	Samsung Electronics Co., LTD.	Granted
1927	2381583	FI	Samsung Electronics Co., LTD.	Granted
1928	2381582	FI	Samsung Electronics Co., LTD.	Granted
1929	2239854	FI	Samsung Electronics Co., LTD.	Granted
1930	2068449	FI	Samsung Electronics Co., LTD.	Granted
1931	2381583	ES	Samsung Electronics Co., LTD.	Granted
1932	2381582	ES	Samsung Electronics Co., LTD.	Granted
1933	2239854	ES	Samsung Electronics Co., LTD.	Granted
1934	2068449	ES	Samsung Electronics Co., LTD.	Granted
1935	2381583	EP	Samsung Electronics Co., LTD.	Granted
1936	2381582	EP	Samsung Electronics Co., LTD.	Granted
1937	2239854	EP	Samsung Electronics Co., LTD.	Granted
1938	2068449	EP	Samsung Electronics Co., LTD.	Granted
1939	2381583	DE	Samsung Electronics Co., LTD.	Granted
1940	2381582	DE	Samsung Electronics Co., LTD.	Granted
1941	2239854	DE	Samsung Electronics Co., LTD.	Granted

1942	2068449	DE	Samsung Electronics Co., LTD.	Granted
1943	2381583	CZ	Samsung Electronics Co., LTD.	Granted
1944	2381582	CZ	Samsung Electronics Co., LTD.	Granted
1945	2239854	CZ	Samsung Electronics Co., LTD.	Granted
1946	2068449	CZ	Samsung Electronics Co., LTD.	Granted
1947	ZL200880119339.6	CN	Samsung Electronics Co., LTD.	Granted
1948	2012200530	AU	Samsung Electronics Co., LTD.	Granted
1949	2008332040	AU	Samsung Electronics Co., LTD.	Granted
1950	KR2008/002722	WO	Samsung Electronics Co., LTD.	Pending
1951	12811	VN	Samsung Electronics Co., LTD.	Granted
1952	1-2009-02511	VN	Samsung Electronics Co., LTD.	Pending
1953	US8879651	US	Samsung Electronics Co., LTD.	Granted
1954	US8238484	US	Samsung Electronics Co., LTD.	Granted
1955	US8406324	US	Samsung Electronics Co., LTD.	Granted
1956	320315	MX	Samsung Electronics Co., LTD.	Granted
1957	314960	MX	Samsung Electronics Co., LTD.	Granted
1958	P1498019	KR	Samsung Electronics Co., LTD.	Granted
1959	10105781	HK	Samsung Electronics Co., LTD.	Pending
1960	20096321	FI	Samsung Electronics Co., LTD.	Pending
1961	20096316	FI	Samsung Electronics Co., LTD.	Pending
1962	112008002042.6	DE	Samsung Electronics Co., LTD.	Pending
1963	112008001013.7	DE	Samsung Electronics Co., LTD.	Pending
1964	ZL200910224800.0	CN	Samsung Electronics Co., LTD.	Granted
1965	ZL200880012202.0	CN	Samsung Electronics Co., LTD.	Granted
1966	2684387	CA	Samsung Electronics Co., LTD.	Granted
1967	2681860	CA	Samsung Electronics Co., LTD.	Granted
1968	PI0823175-3	BR	Samsung Electronics Co., LTD.	Pending
1969	PI0811077-8	BR	Samsung Electronics Co., LTD.	Pending
1970	KR2008/000636	WO	Samsung Electronics Co., LTD.	Pending
1971	US8737432	US	Samsung Electronics Co., LTD.	Granted
1972	P20160077424	KR	Samsung Electronics Co., LTD.	Pending
1973	P1633879	KR	Samsung Electronics Co., LTD.	Granted
1974	US9106455	US	Samsung Electronics Co., LTD.	Granted

1975	US12/254282	US	Samsung Electronics Co., LTD.	Pending
1976	US9166826	US	Samsung Electronics Co., LTD.	Granted
1977	US8385448	US	Samsung Electronics Co., LTD.	Granted
1978	US8325830	US	Samsung Electronics Co., LTD.	Granted
1979	US8385447	US	Samsung Electronics Co., LTD.	Granted
1980	US8406347	US	Samsung Electronics Co., LTD.	Granted
1981	US8385437	US	Samsung Electronics Co., LTD.	Granted
1982	US8149932	US	Samsung Electronics Co., LTD.	Granted
1983	P1369838	KR	Samsung Electronics Co., LTD.	Granted
1984	2004/002296	WO	Samsung Electronics Co., LTD.	Pending
1985	US7340006	US	Samsung Electronics Co., LTD.	Granted
1986	1515504	SE	Samsung Electronics Co., LTD.	Granted
1987	2313910	RU	Samsung Electronics Co., LTD.	Granted
1988	P0933115	KR	Samsung Electronics Co., LTD.	Granted
1989	4303288	JP	Samsung Electronics Co., LTD.	Granted
1990	1515504	IT	Samsung Electronics Co., LTD.	Granted
1991	242608	IN	Samsung Electronics Co., LTD.	Granted
1992	1515504	GB	Samsung Electronics Co., LTD.	Granted
1993	1515504	FR	Samsung Electronics Co., LTD.	Granted
1994	1515504	EP	Samsung Electronics Co., LTD.	Granted
1995	1515504	DE	Samsung Electronics Co., LTD.	Granted
1996	ZL200480025726.5	CN	Samsung Electronics Co., LTD.	Granted
1997	2536234	CA	Samsung Electronics Co., LTD.	Granted
1998	2004303047	AU	Samsung Electronics Co., LTD.	Granted
1999	CA 2440013	CA	Samsung Electronics Co., LTD.	Granted
2000	CN ZL200410005357.5	CN	Samsung Electronics Co., LTD.	Granted
2001	RU 2276472	RU	Samsung Electronics Co., LTD.	Granted
2002	IN 268596	IN	Samsung Electronics Co., LTD.	Granted
2003	US 8160138	US	Samsung Electronics Co., LTD.	Granted
2004	CN 03801207.3	CN	Samsung Electronics Co., LTD.	Granted
2005	IN 203511	IN	Samsung Electronics Co., LTD.	Granted
2006	CN ZL201210210549.4	CN	Samsung Electronics Co., LTD.	Granted
2007	CN ZL201310013117	CN	Samsung Electronics Co., LTD.	Granted

2008	CN ZL201310013145	CN	Samsung Electronics Co., LTD.	Granted
2009	CN ZL201310013187	CN	Samsung Electronics Co., LTD.	Granted
2010	CN ZL201310013142.7	CN	Samsung Electronics Co., LTD.	Granted
2011	CN 200880020191.0	CN	Samsung Electronics Co., LTD.	Granted
2012	AL 2665267	AL	Samsung Electronics Co., LTD.	Granted
2013	AL 2804383	AL	Samsung Electronics Co., LTD.	Granted
2014	AT 2665267	AT	Samsung Electronics Co., LTD.	Granted
2015	AT 2804383	AT	Samsung Electronics Co., LTD.	Granted
2016	AU 2010283045	AU	Samsung Electronics Co., LTD.	Granted
2017	AU 2013202016	AU	Samsung Electronics Co., LTD.	Granted
2018	AU 2013202015	AU	Samsung Electronics Co., LTD.	Granted
2019	BE 2665267	BE	Samsung Electronics Co., LTD.	Granted
2020	BE 2804383	BE	Samsung Electronics Co., LTD.	Granted
2021	BG 2665267	BG	Samsung Electronics Co., LTD.	Granted
2022	BG 2804383	BG	Samsung Electronics Co., LTD.	Granted
2023	BR1120120023896	BR	Samsung Electronics Co., LTD.	Pending
2024	1220130190120	BR	Samsung Electronics Co., LTD.	Pending
2025	1220130190155	BR	Samsung Electronics Co., LTD.	Pending
2026	CA 2770991	CA	Samsung Electronics Co., LTD.	Granted
2027	CA 2814715	CA	Samsung Electronics Co., LTD.	Granted
2028	CA 2814270	CA	Samsung Electronics Co., LTD.	Granted
2029	CA 2876420	CA	Samsung Electronics Co., LTD.	Granted
2030	CH 2665267	CH	Samsung Electronics Co., LTD.	Granted
2031	CH 2804383	CH	Samsung Electronics Co., LTD.	Granted
2032	CN ZL201080036192.1	CN	Samsung Electronics Co., LTD.	Granted
2033	CN ZL201310086149.1	CN	Samsung Electronics Co., LTD.	Granted
2034	CN ZL201310091738.9	CN	Samsung Electronics Co., LTD.	Granted
2035	CN ZL201510004944.0	CN	Samsung Electronics Co., LTD.	Granted
2036	201510004895	CN	Samsung Electronics Co., LTD.	Pending
2037	CN ZL201510004975.6	CN	Samsung Electronics Co., LTD.	Granted
2038	201510004976	CN	Samsung Electronics Co., LTD.	Pending
2039	201510002762.X	CN	Samsung Electronics Co., LTD.	Pending
2040	CY 2665267	CY	Samsung Electronics Co., LTD.	Granted

2041	CY 2804383	CY	Samsung Electronics Co., LTD.	Granted
2042	CZ 2665267	CZ	Samsung Electronics Co., LTD.	Granted
2043	CZ 2804383	CZ	Samsung Electronics Co., LTD.	Granted
2044	DE 131806135	DE	Samsung Electronics Co., LTD.	Granted
2045	DE 141786988	DE	Samsung Electronics Co., LTD.	Granted
2046	DK 2665267	DK	Samsung Electronics Co., LTD.	Granted
2047	DK 2804383	DK	Samsung Electronics Co., LTD.	Granted
2048	EE 2665267	EE	Samsung Electronics Co., LTD.	Granted
2049	EE 2804383	EE	Samsung Electronics Co., LTD.	Granted
2050	10808400	EP	Samsung Electronics Co., LTD.	Pending
2051	13180614	EP	Samsung Electronics Co., LTD.	Pending
2052	15151648	EP	Samsung Electronics Co., LTD.	Pending
2053	15153212	EP	Samsung Electronics Co., LTD.	Pending
2054	16180870	EP	Samsung Electronics Co., LTD.	Pending
2055	ES 2665267	ES	Samsung Electronics Co., LTD.	Granted
2056	ES 2804383	ES	Samsung Electronics Co., LTD.	Granted
2057	FI 2665267	FI	Samsung Electronics Co., LTD.	Granted
2058	FI 2804383	FI	Samsung Electronics Co., LTD.	Granted
2059	FR 2665267	FR	Samsung Electronics Co., LTD.	Granted
2060	FR 2804383	FR	Samsung Electronics Co., LTD.	Granted
2061	GB 2665267	GB	Samsung Electronics Co., LTD.	Granted
2062	GB 2804383	GB	Samsung Electronics Co., LTD.	Granted
2063	GR 2665267	GR	Samsung Electronics Co., LTD.	Granted
2064	GR 2804383	GR	Samsung Electronics Co., LTD.	Granted
2065	HR 2665267	HR	Samsung Electronics Co., LTD.	Granted
2066	HR 2804383	HR	Samsung Electronics Co., LTD.	Granted
2067	HU 2665267	HU	Samsung Electronics Co., LTD.	Granted
2068	HU 2804383	HU	Samsung Electronics Co., LTD.	Granted
2069	ID W-00201200971	ID	Samsung Electronics Co., LTD.	Granted
2070	W-00201301922	ID	Samsung Electronics Co., LTD.	Pending
2071	W-00201301925	ID	Samsung Electronics Co., LTD.	Pending
2072	P-00201500479	ID	Samsung Electronics Co., LTD.	Pending
2073	P-00201500480	ID	Samsung Electronics Co., LTD.	Pending

2074	P-00201500474	ID	Samsung Electronics Co., LTD.	Pending
2075	IE 2665267	IE	Samsung Electronics Co., LTD.	Granted
2076	IE 2804383	IE	Samsung Electronics Co., LTD.	Granted
2077	2235/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
2078	2468/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
2079	2447/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
2080	478/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2081	477/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2082	476/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2083	IS 2665267	IS	Samsung Electronics Co., LTD.	Granted
2084	IS 2804383	IS	Samsung Electronics Co., LTD.	Granted
2085	IT 2665267	IT	Samsung Electronics Co., LTD.	Granted
2086	IT 2804383	IT	Samsung Electronics Co., LTD.	Granted
2087	JP 5654597	JP	Samsung Electronics Co., LTD.	Granted
2088	JP 5688123	JP	Samsung Electronics Co., LTD.	Granted
2089	JP 5688124	JP	Samsung Electronics Co., LTD.	Granted
2090	JP 5739571	JP	Samsung Electronics Co., LTD.	Granted
2091	JP 5767387	JP	Samsung Electronics Co., LTD.	Granted
2092	2015-123028	JP	Samsung Electronics Co., LTD.	Pending
2093	KR 1487686	KR	Samsung Electronics Co., LTD.	Granted
2094	KR 1454642	KR	Samsung Electronics Co., LTD.	Granted
2095	2565740	CA	Samsung Electronics Co., LTD.	Granted
2096	2677963	CA	Samsung Electronics Co., LTD.	Granted
2097	2677967	CA	Samsung Electronics Co., LTD.	Granted
2098	ZL200580014321.6	CN	Samsung Electronics Co., LTD.	Granted
2099	ZL200910167090.2	CN	Samsung Electronics Co., LTD.	Granted
2100	ZL200910167083.2	CN	Samsung Electronics Co., LTD.	Granted
2101	ZL200910167082.8	CN	Samsung Electronics Co., LTD.	Granted
2102	1140074	HK	Samsung Electronics Co., LTD.	Granted
2103	1140075	HK	Samsung Electronics Co., LTD.	Granted
2104	P0683879	KR	Samsung Electronics Co., LTD.	Granted
2105	271727	MX	Samsung Electronics Co., LTD.	Granted
2106	301682	MX	Samsung Electronics Co., LTD.	Granted

2107	299759	MX	Samsung Electronics Co., LTD.	Granted
2108	US8619900	US	Samsung Electronics Co., LTD.	Granted
2109	US8644398	US	Samsung Electronics Co., LTD.	Granted
2110	US8638881	US	Samsung Electronics Co., LTD.	Granted
2111	US8705640	US	Samsung Electronics Co., LTD.	Granted
2112	US8644421	US	Samsung Electronics Co., LTD.	Granted
2113	US8634497	US	Samsung Electronics Co., LTD.	Granted
2114	US8660211	US	Samsung Electronics Co., LTD.	Granted
2115	2565736	CA	Samsung Electronics Co., LTD.	Granted
2116	2691756	CA	Samsung Electronics Co., LTD.	Granted
2117	2692245	CA	Samsung Electronics Co., LTD.	Granted
2118	ZL200580014463.2	CN	Samsung Electronics Co., LTD.	Granted
2119	ZL200910220888.9	CN	Samsung Electronics Co., LTD.	Granted
2120	ZL200910220887.4	CN	Samsung Electronics Co., LTD.	Granted
2121	ZL200910252847.8	CN	Samsung Electronics Co., LTD.	Granted
2122	P0692596	KR	Samsung Electronics Co., LTD.	Granted
2123	271889	MX	Samsung Electronics Co., LTD.	Granted
2124	298817	MX	Samsung Electronics Co., LTD.	Granted
2125	304742	MX	Samsung Electronics Co., LTD.	Granted
2126	US7773684	US	Samsung Electronics Co., LTD.	Granted
2127	US7590187	US	Samsung Electronics Co., LTD.	Granted
2128	US8737495	US	Samsung Electronics Co., LTD.	Granted
2129	2565284	CA	Samsung Electronics Co., LTD.	Granted
2130	2679043	CA	Samsung Electronics Co., LTD.	Granted
2131	2679046	CA	Samsung Electronics Co., LTD.	Granted
2132	2679040	CA	Samsung Electronics Co., LTD.	Granted
2133	2679049	CA	Samsung Electronics Co., LTD.	Granted
2134	ZL200580015387.7	CN	Samsung Electronics Co., LTD.	Granted
2135	ZL200910168919.0	CN	Samsung Electronics Co., LTD.	Granted
2136	ZL200910168918.6	CN	Samsung Electronics Co., LTD.	Granted
2137	ZL200910168917.1	CN	Samsung Electronics Co., LTD.	Granted
2138	ZL200910168915.2	CN	Samsung Electronics Co., LTD.	Granted
2139	271730	MX	Samsung Electronics Co., LTD.	Granted

2140	299251	MX	Samsung Electronics Co., LTD.	Granted
2141	299252	MX	Samsung Electronics Co., LTD.	Granted
2142	299253	MX	Samsung Electronics Co., LTD.	Granted
2143	295262	MX	Samsung Electronics Co., LTD.	Granted
2144	US8582682	US	Samsung Electronics Co., LTD.	Granted
2145	US8498364	US	Samsung Electronics Co., LTD.	Granted
2146	US8498367	US	Samsung Electronics Co., LTD.	Granted
2147	US8548080	US	Samsung Electronics Co., LTD.	Granted
2148	US8743996	US	Samsung Electronics Co., LTD.	Granted
2149	US8483303	US	Samsung Electronics Co., LTD.	Granted
2150	US8761313	US	Samsung Electronics Co., LTD.	Granted
2151	US8514981	US	Samsung Electronics Co., LTD.	Granted
2152	US8542780	US	Samsung Electronics Co., LTD.	Granted
2153	US8306158	US	Samsung Electronics Co., LTD.	Granted
2154	US8565354	US	Samsung Electronics Co., LTD.	Granted
2155	2565863	CA	Samsung Electronics Co., LTD.	Granted
2156	ZL200580015642.8	CN	Samsung Electronics Co., LTD.	Granted
2157	ZL200910128567.6	CN	Samsung Electronics Co., LTD.	Granted
2158	277001	MX	Samsung Electronics Co., LTD.	Granted
2159	US7852961	US	Samsung Electronics Co., LTD.	Granted
2160	US8170129	US	Samsung Electronics Co., LTD.	Granted
2161	US8054903	US	Samsung Electronics Co., LTD.	Granted
2162	US8634477	US	Samsung Electronics Co., LTD.	Granted
2163	US8611432	US	Samsung Electronics Co., LTD.	Granted
2164	US8611429	US	Samsung Electronics Co., LTD.	Granted
2165	US8619869	US	Samsung Electronics Co., LTD.	Granted
2166	US8619870	US	Samsung Electronics Co., LTD.	Granted
2167	US8619878	US	Samsung Electronics Co., LTD.	Granted
2168	US8467458	US	Samsung Electronics Co., LTD.	Granted
2169	US8306127	US	Samsung Electronics Co., LTD.	Granted
2170	US8204135	US	Samsung Electronics Co., LTD.	Granted
2171	US8565322	US	Samsung Electronics Co., LTD.	Granted
2172	US8942294	US	Samsung Electronics Co., LTD.	Granted

2173	US8315316	US	Samsung Electronics Co., LTD.	Granted
2174	US9100673	US	Samsung Electronics Co., LTD.	Granted
2175	US9167284	US	Samsung Electronics Co., LTD.	Granted
2176	PI0512505-7	BR	Samsung Electronics Co., LTD.	Pending
2177	PI0520872-6	BR	Samsung Electronics Co., LTD.	Pending
2178	2568023	CA	Samsung Electronics Co., LTD.	Granted
2179	ZL200580020365.X	CN	Samsung Electronics Co., LTD.	Granted
2180	05765831.2	EP	Samsung Electronics Co., LTD.	Pending
2181	09170079.9	EP	Samsung Electronics Co., LTD.	Pending
2182	1100608	HK	Samsung Electronics Co., LTD.	Granted
2183	IDP0030125	ID	Samsung Electronics Co., LTD.	Granted
2184	5990/DELNP/2006	IN	Samsung Electronics Co., LTD.	Pending
2185	5742/DELNP/2009	IN	Samsung Electronics Co., LTD.	Pending
2186	4668987	JP	Samsung Electronics Co., LTD.	Granted
2187	4669063	JP	Samsung Electronics Co., LTD.	Granted
2188	P0744055	KR	Samsung Electronics Co., LTD.	Granted
2189	273726	MX	Samsung Electronics Co., LTD.	Granted
2190	2350037	RU	Samsung Electronics Co., LTD.	Granted
2191	153853	SG	Samsung Electronics Co., LTD.	Granted
2192	US7738581	US	Samsung Electronics Co., LTD.	Granted
2193	US7752528	US	Samsung Electronics Co., LTD.	Granted
2194	US8194797	US	Samsung Electronics Co., LTD.	Granted
2195	US8059741	US	Samsung Electronics Co., LTD.	Granted
2196	US8312357	US	Samsung Electronics Co., LTD.	Granted
2197	US8127210	US	Samsung Electronics Co., LTD.	Granted
2198	2572912	CA	Samsung Electronics Co., LTD.	Granted
2199	2677969	CA	Samsung Electronics Co., LTD.	Granted
2200	2677982	CA	Samsung Electronics Co., LTD.	Granted
2201	2677984	CA	Samsung Electronics Co., LTD.	Granted
2202	2677985	CA	Samsung Electronics Co., LTD.	Granted
2203	ZL200580023761.8	CN	Samsung Electronics Co., LTD.	Granted
2204	ZL200910165469.X	CN	Samsung Electronics Co., LTD.	Granted
2205	ZL200910165470.2	CN	Samsung Electronics Co., LTD.	Granted

2206	ZL200910167081.3	CN	Samsung Electronics Co., LTD.	Granted
2207	ZL200910167086.6	CN	Samsung Electronics Co., LTD.	Granted
2208	ZL200910167085.1	CN	Samsung Electronics Co., LTD.	Granted
2209	1140078	HK	Samsung Electronics Co., LTD.	Granted
2210	1140081	HK	Samsung Electronics Co., LTD.	Granted
2211	P1165379	KR	Samsung Electronics Co., LTD.	Granted
2212	P1172787	KR	Samsung Electronics Co., LTD.	Granted
2213	264029	MX	Samsung Electronics Co., LTD.	Granted
2214	300226	MX	Samsung Electronics Co., LTD.	Granted
2215	294304	MX	Samsung Electronics Co., LTD.	Granted
2216	299249	MX	Samsung Electronics Co., LTD.	Granted
2217	299250	MX	Samsung Electronics Co., LTD.	Granted
2218	291935	MX	Samsung Electronics Co., LTD.	Granted
2219	US7844012	US	Samsung Electronics Co., LTD.	Granted
2220	US8848832	US	Samsung Electronics Co., LTD.	Granted
2221	US8885770	US	Samsung Electronics Co., LTD.	Granted
2222	US8855237	US	Samsung Electronics Co., LTD.	Granted
2223	US7848462	US	Samsung Electronics Co., LTD.	Granted
2224	US8855238	US	Samsung Electronics Co., LTD.	Granted
2225	US8855239	US	Samsung Electronics Co., LTD.	Granted
2226	US8068565	US	Samsung Electronics Co., LTD.	Granted
2227	US8238486	US	Samsung Electronics Co., LTD.	Granted
2228	P0708479	KR	Samsung Electronics Co., LTD.	Granted
2229	PI20061299	MY	Samsung Electronics Co., LTD.	Pending
2230	PI20091471	MY	Samsung Electronics Co., LTD.	Pending
2231	MY-151866-A	MY	Samsung Electronics Co., LTD.	Granted
2232	I314822	TW	Samsung Electronics Co., LTD.	Granted
2233	US9100051	US	Samsung Electronics Co., LTD.	Granted
2234	US8861645	US	Samsung Electronics Co., LTD.	Granted
2235	US8213551	US	Samsung Electronics Co., LTD.	Granted
2236	P0708471	KR	Samsung Electronics Co., LTD.	Granted
2237	2614889	CA	Samsung Electronics Co., LTD.	Granted
2238	2680188	CA	Samsung Electronics Co., LTD.	Granted

2239	2680187	CA	Samsung Electronics Co., LTD.	Granted
2240	ZL200680025724.5	CN	Samsung Electronics Co., LTD.	Granted
2241	ZL200910221917.3	CN	Samsung Electronics Co., LTD.	Granted
2242	P0806863	KR	Samsung Electronics Co., LTD.	Granted
2243	317539	MX	Samsung Electronics Co., LTD.	Granted
2244	335233	MX	Samsung Electronics Co., LTD.	Granted
2245	US7711045	US	Samsung Electronics Co., LTD.	Granted
2246	US8379714	US	Samsung Electronics Co., LTD.	Granted
2247	US7873103	US	Samsung Electronics Co., LTD.	Granted
2248	US7813426	US	Samsung Electronics Co., LTD.	Granted
2249	PI0611174-2	BR	Samsung Electronics Co., LTD.	Pending
2250	PI0622270-6	BR	Samsung Electronics Co., LTD.	Pending
2251	2608461	CA	Samsung Electronics Co., LTD.	Granted
2252	2679566	CA	Samsung Electronics Co., LTD.	Granted
2253	ZL200810148922.1	CN	Samsung Electronics Co., LTD.	Granted
2254	ZL200810148923.6	CN	Samsung Electronics Co., LTD.	Granted
2255	ZL200810148924.0	CN	Samsung Electronics Co., LTD.	Granted
2256	2157795	EP	Samsung Electronics Co., LTD.	Granted
2257	2157795	FI	Samsung Electronics Co., LTD.	Granted
2258	IDP0034248	ID	Samsung Electronics Co., LTD.	Granted
2259	IDP0028562	ID	Samsung Electronics Co., LTD.	Granted
2260	5741/DELNP/2009	IN	Samsung Electronics Co., LTD.	Pending
2261	4839368	JP	Samsung Electronics Co., LTD.	Granted
2262	4839400	JP	Samsung Electronics Co., LTD.	Granted
2263	285212	MX	Samsung Electronics Co., LTD.	Granted
2264	308011	MX	Samsung Electronics Co., LTD.	Granted
2265	2157795	NL	Samsung Electronics Co., LTD.	Granted
2266	2391779	RU	Samsung Electronics Co., LTD.	Granted
2267	137512	SG	Samsung Electronics Co., LTD.	Granted
2268	US7920602	US	Samsung Electronics Co., LTD.	Granted
2269	US8194705	US	Samsung Electronics Co., LTD.	Granted
2270	US8135044	US	Samsung Electronics Co., LTD.	Granted
2271	US8130798	US	Samsung Electronics Co., LTD.	Granted

2272	PI0617315-2	BR	Samsung Electronics Co., LTD.	Pending
2273	PI0617281-4	BR	Samsung Electronics Co., LTD.	Pending
2274	PI0622265-0	BR	Samsung Electronics Co., LTD.	Pending
2275	PI0622266-8	BR	Samsung Electronics Co., LTD.	Pending
2276	PI0622267-6	BR	Samsung Electronics Co., LTD.	Pending
2277	2624477	CA	Samsung Electronics Co., LTD.	Granted
2278	2624399	CA	Samsung Electronics Co., LTD.	Granted
2279	2684448	CA	Samsung Electronics Co., LTD.	Granted
2280	2684432	CA	Samsung Electronics Co., LTD.	Granted
2281	2684435	CA	Samsung Electronics Co., LTD.	Granted
2282	ZL200680036245.3	CN	Samsung Electronics Co., LTD.	Granted
2283	ZL200680034480.7	CN	Samsung Electronics Co., LTD.	Granted
2284	ZL200910179534.4	CN	Samsung Electronics Co., LTD.	Granted
2285	ZL200910179529.3	CN	Samsung Electronics Co., LTD.	Granted
2286	ZL200910179530.6	CN	Samsung Electronics Co., LTD.	Granted
2287	376/MUMNP/2008	IN	Samsung Electronics Co., LTD.	Pending
2288	1827/MUMNP/2009	IN	Samsung Electronics Co., LTD.	Pending
2289	1828/MUMNP/2009	IN	Samsung Electronics Co., LTD.	Pending
2290	1829/MUMNP/2009	IN	Samsung Electronics Co., LTD.	Pending
2291	P0756036	KR	Samsung Electronics Co., LTD.	Granted
2292	303564	MX	Samsung Electronics Co., LTD.	Granted
2293	282032	MX	Samsung Electronics Co., LTD.	Granted
2294	303992	MX	Samsung Electronics Co., LTD.	Granted
2295	303993	MX	Samsung Electronics Co., LTD.	Granted
2296	303991	MX	Samsung Electronics Co., LTD.	Granted
2297	MY-151620-A	MY	Samsung Electronics Co., LTD.	Granted
2298	PI20094217	MY	Samsung Electronics Co., LTD.	Pending
2299	PI20094216	MY	Samsung Electronics Co., LTD.	Pending
2300	US8619876	US	Samsung Electronics Co., LTD.	Granted
2301	US8711947	US	Samsung Electronics Co., LTD.	Granted
2302	US8804841	US	Samsung Electronics Co., LTD.	Granted
2303	US8867623	US	Samsung Electronics Co., LTD.	Granted
2304	US8699584	US	Samsung Electronics Co., LTD.	Granted

2305	US8625679	US	Samsung Electronics Co., LTD.	Granted
2306	2629297	CA	Samsung Electronics Co., LTD.	Granted
2307	2685283	CA	Samsung Electronics Co., LTD.	Granted
2308	2686672	CA	Samsung Electronics Co., LTD.	Granted
2309	2686667	CA	Samsung Electronics Co., LTD.	Granted
2310	2686674	CA	Samsung Electronics Co., LTD.	Granted
2311	2686275	CA	Samsung Electronics Co., LTD.	Granted
2312	ZL200910205252.7	CN	Samsung Electronics Co., LTD.	Granted
2313	ZL200910205254.6	CN	Samsung Electronics Co., LTD.	Granted
2314	ZL200910205253.1	CN	Samsung Electronics Co., LTD.	Granted
2315	ZL200910205249.5	CN	Samsung Electronics Co., LTD.	Granted
2316	5084738	JP	Samsung Electronics Co., LTD.	Granted
2317	4990956	JP	Samsung Electronics Co., LTD.	Granted
2318	5230582	JP	Samsung Electronics Co., LTD.	Granted
2319	5230583	JP	Samsung Electronics Co., LTD.	Granted
2320	4990957	JP	Samsung Electronics Co., LTD.	Granted
2321	P0854090	KR	Samsung Electronics Co., LTD.	Granted
2322	290487	MX	Samsung Electronics Co., LTD.	Granted
2323	299290	MX	Samsung Electronics Co., LTD.	Granted
2324	303563	MX	Samsung Electronics Co., LTD.	Granted
2325	303561	MX	Samsung Electronics Co., LTD.	Granted
2326	303565	MX	Samsung Electronics Co., LTD.	Granted
2327	309746	MX	Samsung Electronics Co., LTD.	Granted
2328	US7983354	US	Samsung Electronics Co., LTD.	Granted
2329	US8537918	US	Samsung Electronics Co., LTD.	Granted
2330	US8111768	US	Samsung Electronics Co., LTD.	Granted
2331	US8223823	US	Samsung Electronics Co., LTD.	Granted
2332	US8320501	US	Samsung Electronics Co., LTD.	Granted
2333	2629998	CA	Samsung Electronics Co., LTD.	Granted
2334	2679572	CA	Samsung Electronics Co., LTD.	Granted
2335	ZL200680041427.X	CN	Samsung Electronics Co., LTD.	Granted
2336	5116691	JP	Samsung Electronics Co., LTD.	Granted
2337	5129798	JP	Samsung Electronics Co., LTD.	Granted

2338	P0740206	KR	Samsung Electronics Co., LTD.	Granted
2339	307259	MX	Samsung Electronics Co., LTD.	Granted
2340	307260	MX	Samsung Electronics Co., LTD.	Granted
2341	US8184695	US	Samsung Electronics Co., LTD.	Granted
2342	US8009704	US	Samsung Electronics Co., LTD.	Granted
2343	US7920622	US	Samsung Electronics Co., LTD.	Granted
2344	US8379673	US	Samsung Electronics Co., LTD.	Granted
2345	US8275004	US	Samsung Electronics Co., LTD.	Granted
2346	2635234	CA	Samsung Electronics Co., LTD.	Granted
2347	ZL200680050391.1	CN	Samsung Electronics Co., LTD.	Granted
2348	282027	MX	Samsung Electronics Co., LTD.	Granted
2349	US7823051	US	Samsung Electronics Co., LTD.	Granted
2350	0620901-7	BR	Samsung Electronics Co., LTD.	Pending
2351	PI0622269-2	BR	Samsung Electronics Co., LTD.	Pending
2352	2635200	CA	Samsung Electronics Co., LTD.	Granted
2353	2680191	CA	Samsung Electronics Co., LTD.	Granted
2354	ZL200910173085.2	CN	Samsung Electronics Co., LTD.	Granted
2355	1980031	DE	Samsung Electronics Co., LTD.	Granted
2356	1980031	EP	Samsung Electronics Co., LTD.	Granted
2357	P1431616	KR	Samsung Electronics Co., LTD.	Granted
2358	298694	MX	Samsung Electronics Co., LTD.	Granted
2359	311288	MX	Samsung Electronics Co., LTD.	Granted
2360	US7913152	US	Samsung Electronics Co., LTD.	Granted
2361	US8332733	US	Samsung Electronics Co., LTD.	Granted
2362	US7941735	US	Samsung Electronics Co., LTD.	Granted
2363	US7996751	US	Samsung Electronics Co., LTD.	Granted
2364	13857	VN	Samsung Electronics Co., LTD.	Granted
2365	P0818229	KR	Samsung Electronics Co., LTD.	Granted
2366	285214	MX	Samsung Electronics Co., LTD.	Granted
2367	US7814400	US	Samsung Electronics Co., LTD.	Granted
2368	P0754732	KR	Samsung Electronics Co., LTD.	Granted
2369	USRE43627	US	Samsung Electronics Co., LTD.	Granted
2370	2685692	AT	Samsung Electronics Co., LTD.	Granted

2371	2685692	BE	Samsung Electronics Co., LTD.	Granted
2372	2685692	BG	Samsung Electronics Co., LTD.	Granted
2373	2685692	CH	Samsung Electronics Co., LTD.	Granted
2374	2153600	CZ	Samsung Electronics Co., LTD.	Granted
2375	2442512	CZ	Samsung Electronics Co., LTD.	Granted
2376	2685692	CZ	Samsung Electronics Co., LTD.	Granted
2377	2153600	DE	Samsung Electronics Co., LTD.	Granted
2378	2442512	DE	Samsung Electronics Co., LTD.	Granted
2379	2685692	DE	Samsung Electronics Co., LTD.	Granted
2380	2685692	DK	Samsung Electronics Co., LTD.	Granted
2381	2153600	EP	Samsung Electronics Co., LTD.	Granted
2382	2442512	EP	Samsung Electronics Co., LTD.	Granted
2383	2685692	EP	Samsung Electronics Co., LTD.	Granted
2384	2153600	ES	Samsung Electronics Co., LTD.	Granted
2385	2442512	ES	Samsung Electronics Co., LTD.	Granted
2386	2685692	ES	Samsung Electronics Co., LTD.	Granted
2387	2153600	FI	Samsung Electronics Co., LTD.	Granted
2388	2442512	FI	Samsung Electronics Co., LTD.	Granted
2389	2685692	FI	Samsung Electronics Co., LTD.	Granted
2390	2153600	FR	Samsung Electronics Co., LTD.	Granted
2391	2442512	FR	Samsung Electronics Co., LTD.	Granted
2392	2685692	FR	Samsung Electronics Co., LTD.	Granted
2393	2153600	GB	Samsung Electronics Co., LTD.	Granted
2394	2442512	GB	Samsung Electronics Co., LTD.	Granted
2395	2685692	GB	Samsung Electronics Co., LTD.	Granted
2396	2685692	GR	Samsung Electronics Co., LTD.	Granted
2397	2153600	HU	Samsung Electronics Co., LTD.	Granted
2398	2442512	HU	Samsung Electronics Co., LTD.	Granted
2399	2685692	HU	Samsung Electronics Co., LTD.	Granted
2400	2153600	IT	Samsung Electronics Co., LTD.	Granted
2401	2442512	IT	Samsung Electronics Co., LTD.	Granted
2402	2685692	IT	Samsung Electronics Co., LTD.	Granted
2403	2153600	NL	Samsung Electronics Co., LTD.	Granted

2404	2442512	NL	Samsung Electronics Co., LTD.	Granted
2405	2685692	NL	Samsung Electronics Co., LTD.	Granted
2406	2685692	NO	Samsung Electronics Co., LTD.	Granted
2407	2153600	PL	Samsung Electronics Co., LTD.	Granted
2408	2442512	PL	Samsung Electronics Co., LTD.	Granted
2409	2685692	PL	Samsung Electronics Co., LTD.	Granted
2410	2685692	PT	Samsung Electronics Co., LTD.	Granted
2411	2685692	RO	Samsung Electronics Co., LTD.	Granted
2412	2153600	SE	Samsung Electronics Co., LTD.	Granted
2413	2442512	SE	Samsung Electronics Co., LTD.	Granted
2414	2685692	SE	Samsung Electronics Co., LTD.	Granted
2415	2685692	SI	Samsung Electronics Co., LTD.	Granted
2416	2153600	SK	Samsung Electronics Co., LTD.	Granted
2417	2442512	SK	Samsung Electronics Co., LTD.	Granted
2418	2685692	SK	Samsung Electronics Co., LTD.	Granted
2419	2685692	TR	Samsung Electronics Co., LTD.	Granted
2420	US8300714	US	Samsung Electronics Co., LTD.	Granted
2421	2091156	AT	Samsung Electronics Co., LTD.	Granted
2422	2093887	AT	Samsung Electronics Co., LTD.	Granted
2423	2009216008	AU	Samsung Electronics Co., LTD.	Granted
2424	2091156	BE	Samsung Electronics Co., LTD.	Granted
2425	2093887	BE	Samsung Electronics Co., LTD.	Granted
2426	2091156	BG	Samsung Electronics Co., LTD.	Granted
2427	2093887	BG	Samsung Electronics Co., LTD.	Granted
2428	2091156	CH	Samsung Electronics Co., LTD.	Granted
2429	2093887	CH	Samsung Electronics Co., LTD.	Granted
2430	ZL200980105340.8	CN	Samsung Electronics Co., LTD.	Granted
2431	ZL201310027486.3	CN	Samsung Electronics Co., LTD.	Granted
2432	ZL201310027180.8	CN	Samsung Electronics Co., LTD.	Granted
2433	2091156	CZ	Samsung Electronics Co., LTD.	Granted
2434	2093887	CZ	Samsung Electronics Co., LTD.	Granted
2435	2091156	DE	Samsung Electronics Co., LTD.	Granted
2436	2093887	DE	Samsung Electronics Co., LTD.	Granted

2437	2091156	DK	Samsung Electronics Co., LTD.	Granted
2438	2093887	DK	Samsung Electronics Co., LTD.	Granted
2439	2091156	EP	Samsung Electronics Co., LTD.	Granted
2440	2093887	EP	Samsung Electronics Co., LTD.	Granted
2441	2091156	ES	Samsung Electronics Co., LTD.	Granted
2442	2093887	ES	Samsung Electronics Co., LTD.	Granted
2443	2091156	FI	Samsung Electronics Co., LTD.	Granted
2444	2093887	FI	Samsung Electronics Co., LTD.	Granted
2445	2091156	FR	Samsung Electronics Co., LTD.	Granted
2446	2093887	FR	Samsung Electronics Co., LTD.	Granted
2447	2091156	GB	Samsung Electronics Co., LTD.	Granted
2448	2093887	GB	Samsung Electronics Co., LTD.	Granted
2449	2091156	GR	Samsung Electronics Co., LTD.	Granted
2450	2093887	GR	Samsung Electronics Co., LTD.	Granted
2451	2091156	HU	Samsung Electronics Co., LTD.	Granted
2452	2093887	HU	Samsung Electronics Co., LTD.	Granted
2453	IDP0030101	ID	Samsung Electronics Co., LTD.	Granted
2454	5824/CHENP/2010	IN	Samsung Electronics Co., LTD.	Pending
2455	201748019697	IN	Samsung Electronics Co., LTD.	Pending
2456	2091156	IT	Samsung Electronics Co., LTD.	Granted
2457	2093887	IT	Samsung Electronics Co., LTD.	Granted
2458	5120862	JP	Samsung Electronics Co., LTD.	Granted
2459	5506878	JP	Samsung Electronics Co., LTD.	Granted
2460	5506879	JP	Samsung Electronics Co., LTD.	Granted
2461	MY-153328-A	MY	Samsung Electronics Co., LTD.	Granted
2462	2091156	NL	Samsung Electronics Co., LTD.	Granted
2463	2093887	NL	Samsung Electronics Co., LTD.	Granted
2464	2091156	NO	Samsung Electronics Co., LTD.	Granted
2465	2093887	NO	Samsung Electronics Co., LTD.	Granted
2466	2091156	PL	Samsung Electronics Co., LTD.	Granted
2467	2093887	PL	Samsung Electronics Co., LTD.	Granted
2468	2091156	PT	Samsung Electronics Co., LTD.	Granted
2469	2093887	PT	Samsung Electronics Co., LTD.	Granted

2470	2091156	RO	Samsung Electronics Co., LTD.	Granted
2471	2093887	RO	Samsung Electronics Co., LTD.	Granted
2472	2450442	RU	Samsung Electronics Co., LTD.	Granted
2473	2091156	SE	Samsung Electronics Co., LTD.	Granted
2474	2093887	SE	Samsung Electronics Co., LTD.	Granted
2475	163313	SG	Samsung Electronics Co., LTD.	Granted
2476	2091156	SI	Samsung Electronics Co., LTD.	Granted
2477	2093887	SI	Samsung Electronics Co., LTD.	Granted
2478	2091156	SK	Samsung Electronics Co., LTD.	Granted
2479	2093887	SK	Samsung Electronics Co., LTD.	Granted
2480	2091156	TR	Samsung Electronics Co., LTD.	Granted
2481	2093887	TR	Samsung Electronics Co., LTD.	Granted
2482	I387212	TW	Samsung Electronics Co., LTD.	Granted
2483	US8291282	US	Samsung Electronics Co., LTD.	Granted
2484	10740	VN	Samsung Electronics Co., LTD.	Granted
2485	2009209844	AU	Samsung Electronics Co., LTD.	Granted
2486	ZL200980103350.8	CN	Samsung Electronics Co., LTD.	Granted
2487	09151552.8	EP	Samsung Electronics Co., LTD.	Pending
2488	IDP000034361	ID	Samsung Electronics Co., LTD.	Granted
2489	276993	IN	Samsung Electronics Co., LTD.	Granted
2490	5255655	JP	Samsung Electronics Co., LTD.	Granted
2491	MY-156891-A	MY	Samsung Electronics Co., LTD.	Granted
2492	1-2010-501653	PH	Samsung Electronics Co., LTD.	Granted
2493	2479130	RU	Samsung Electronics Co., LTD.	Granted
2494	162518	SG	Samsung Electronics Co., LTD.	Granted
2495	US9628205	US	Samsung Electronics Co., LTD.	Granted
2496	12348	VN	Samsung Electronics Co., LTD.	Granted
2497	2009213247	AU	Samsung Electronics Co., LTD.	Granted
2498	2013203514	AU	Samsung Electronics Co., LTD.	Granted
2499	ZL200980104873.4	CN	Samsung Electronics Co., LTD.	Granted
2500	ZL201310168423.X	CN	Samsung Electronics Co., LTD.	Granted
2501	2088678	DE	Samsung Electronics Co., LTD.	Granted
2502	2093886	DE	Samsung Electronics Co., LTD.	Granted

2503	2088678	EP	Samsung Electronics Co., LTD.	Granted
2504	2093886	EP	Samsung Electronics Co., LTD.	Granted
2505	12188084.3	EP	Samsung Electronics Co., LTD.	Pending
2506	12188093.4	EP	Samsung Electronics Co., LTD.	Pending
2507	12188162.7	EP	Samsung Electronics Co., LTD.	Pending
2508	12188183.3	EP	Samsung Electronics Co., LTD.	Pending
2509	2088678	FR	Samsung Electronics Co., LTD.	Granted
2510	2093886	FR	Samsung Electronics Co., LTD.	Granted
2511	2088678	GB	Samsung Electronics Co., LTD.	Granted
2512	2093886	GB	Samsung Electronics Co., LTD.	Granted
2513	IDP000035694	ID	Samsung Electronics Co., LTD.	Granted
2514	3338/KOLNP/2010	IN	Samsung Electronics Co., LTD.	Pending
2515	5506099	JP	Samsung Electronics Co., LTD.	Granted
2516	5583833	JP	Samsung Electronics Co., LTD.	Granted
2517	MY-152791-A	MY	Samsung Electronics Co., LTD.	Granted
2518	PI2010003511	MY	Samsung Electronics Co., LTD.	Pending
2519	2088678	NL	Samsung Electronics Co., LTD.	Granted
2520	2093886	NL	Samsung Electronics Co., LTD.	Granted
2521	2439793	RU	Samsung Electronics Co., LTD.	Granted
2522	188149	SG	Samsung Electronics Co., LTD.	Granted
2523	10201400710U	SG	Samsung Electronics Co., LTD.	Granted
2524	I384766	TW	Samsung Electronics Co., LTD.	Granted
2525	I401892	TW	Samsung Electronics Co., LTD.	Granted
2526	US8286065	US	Samsung Electronics Co., LTD.	Granted
2527	14512	VN	Samsung Electronics Co., LTD.	Granted
2528	2009216037	AU	Samsung Electronics Co., LTD.	Granted
2529	ZL200980106092.9	CN	Samsung Electronics Co., LTD.	Granted
2530	09153321.6	EP	Samsung Electronics Co., LTD.	Pending
2531	09154672.1	EP	Samsung Electronics Co., LTD.	Pending
2532	IDP0031942	ID	Samsung Electronics Co., LTD.	Granted
2533	5866/CHENP/2010	IN	Samsung Electronics Co., LTD.	Pending
2534	5175942	JP	Samsung Electronics Co., LTD.	Granted
2535	MY-157527-A	MY	Samsung Electronics Co., LTD.	Granted

2536	1-2010-501893	PH	Samsung Electronics Co., LTD.	Granted
2537	2450474	RU	Samsung Electronics Co., LTD.	Granted
2538	163417	SG	Samsung Electronics Co., LTD.	Granted
2539	US9060251	US	Samsung Electronics Co., LTD.	Granted
2540	US9602978	US	Samsung Electronics Co., LTD.	Granted
2541	US9602979	US	Samsung Electronics Co., LTD.	Granted
2542	14312	VN	Samsung Electronics Co., LTD.	Granted
2543	2009217934	AU	Samsung Electronics Co., LTD.	Granted
2544	2013201428	AU	Samsung Electronics Co., LTD.	Granted
2545	ZL200980114592.7	CN	Samsung Electronics Co., LTD.	Granted
2546	201310149429.2	CN	Samsung Electronics Co., LTD.	Pending
2547	ZL201310149574.0	CN	Samsung Electronics Co., LTD.	Granted
2548	2096760	DE	Samsung Electronics Co., LTD.	Granted
2549	2099136	DE	Samsung Electronics Co., LTD.	Granted
2550	2096760	EP	Samsung Electronics Co., LTD.	Granted
2551	2099136	EP	Samsung Electronics Co., LTD.	Granted
2552	11151068.1	EP	Samsung Electronics Co., LTD.	Pending
2553	12166288.6	EP	Samsung Electronics Co., LTD.	Pending
2554	2096760	ES	Samsung Electronics Co., LTD.	Granted
2555	2099136	ES	Samsung Electronics Co., LTD.	Granted
2556	2096760	FR	Samsung Electronics Co., LTD.	Granted
2557	2099136	FR	Samsung Electronics Co., LTD.	Granted
2558	2096760	GB	Samsung Electronics Co., LTD.	Granted
2559	2099136	GB	Samsung Electronics Co., LTD.	Granted
2560	2096760	HU	Samsung Electronics Co., LTD.	Granted
2561	IDP000040112	ID	Samsung Electronics Co., LTD.	Granted
2562	5865/CHENP/2010	IN	Samsung Electronics Co., LTD.	Pending
2563	2096760	IT	Samsung Electronics Co., LTD.	Granted
2564	2099136	IT	Samsung Electronics Co., LTD.	Granted
2565	5440804	JP	Samsung Electronics Co., LTD.	Granted
2566	5648223	JP	Samsung Electronics Co., LTD.	Granted
2567	5648224	JP	Samsung Electronics Co., LTD.	Granted
2568	MY-152769-A	MY	Samsung Electronics Co., LTD.	Granted

2569	PI2014003229	MY	Samsung Electronics Co., LTD.	Pending
2570	2096760	NL	Samsung Electronics Co., LTD.	Granted
2571	2099136	NL	Samsung Electronics Co., LTD.	Granted
2572	2454794	RU	Samsung Electronics Co., LTD.	Granted
2573	2490791	RU	Samsung Electronics Co., LTD.	Granted
2574	2543553	RU	Samsung Electronics Co., LTD.	Granted
2575	2096760	SE	Samsung Electronics Co., LTD.	Granted
2576	2099136	SE	Samsung Electronics Co., LTD.	Granted
2577	163819	SG	Samsung Electronics Co., LTD.	Granted
2578	188821	SG	Samsung Electronics Co., LTD.	Granted
2579	10201401192S	SG	Samsung Electronics Co., LTD.	Granted
2580	I399043	TW	Samsung Electronics Co., LTD.	Granted
2581	I506964	TW	Samsung Electronics Co., LTD.	Granted
2582	I506963	TW	Samsung Electronics Co., LTD.	Granted
2583	US8176384	US	Samsung Electronics Co., LTD.	Granted
2584	13666	VN	Samsung Electronics Co., LTD.	Granted
2585	2096761	AT	Samsung Electronics Co., LTD.	Granted
2586	2009217933	AU	Samsung Electronics Co., LTD.	Granted
2587	2013203761	AU	Samsung Electronics Co., LTD.	Granted
2588	2096761	BE	Samsung Electronics Co., LTD.	Granted
2589	2584707	BE	Samsung Electronics Co., LTD.	Granted
2590	2096761	BG	Samsung Electronics Co., LTD.	Granted
2591	2096761	CH	Samsung Electronics Co., LTD.	Granted
2592	ZL200980114594.6	CN	Samsung Electronics Co., LTD.	Granted
2593	ZL201310261513.3	CN	Samsung Electronics Co., LTD.	Granted
2594	ZL201310261500.6	CN	Samsung Electronics Co., LTD.	Granted
2595	ZL201310261487.4	CN	Samsung Electronics Co., LTD.	Granted
2596	2096761	CZ	Samsung Electronics Co., LTD.	Granted
2597	2096761	DE	Samsung Electronics Co., LTD.	Granted
2598	2584707	DE	Samsung Electronics Co., LTD.	Granted
2599	2584708	DE	Samsung Electronics Co., LTD.	Granted
2600	2096761	DK	Samsung Electronics Co., LTD.	Granted
2601	2584707	DK	Samsung Electronics Co., LTD.	Granted

2602	2096761	EP	Samsung Electronics Co., LTD.	Granted
2603	09154661.4	EP	Samsung Electronics Co., LTD.	Pending
2604	2584707	EP	Samsung Electronics Co., LTD.	Granted
2605	2584708	EP	Samsung Electronics Co., LTD.	Granted
2606	2096761	ES	Samsung Electronics Co., LTD.	Granted
2607	2584707	ES	Samsung Electronics Co., LTD.	Granted
2608	2584708	ES	Samsung Electronics Co., LTD.	Granted
2609	2096761	FI	Samsung Electronics Co., LTD.	Granted
2610	2584708	FI	Samsung Electronics Co., LTD.	Granted
2611	2096761	FR	Samsung Electronics Co., LTD.	Granted
2612	2584707	FR	Samsung Electronics Co., LTD.	Granted
2613	2584708	FR	Samsung Electronics Co., LTD.	Granted
2614	2096761	GB	Samsung Electronics Co., LTD.	Granted
2615	2584707	GB	Samsung Electronics Co., LTD.	Granted
2616	2584708	GB	Samsung Electronics Co., LTD.	Granted
2617	2096761	GR	Samsung Electronics Co., LTD.	Granted
2618	2096761	HU	Samsung Electronics Co., LTD.	Granted
2619	IDP000039403	ID	Samsung Electronics Co., LTD.	Granted
2620	5864/CHENP/2010	IN	Samsung Electronics Co., LTD.	Pending
2621	2096761	IT	Samsung Electronics Co., LTD.	Granted
2622	2584707	IT	Samsung Electronics Co., LTD.	Granted
2623	2584708	IT	Samsung Electronics Co., LTD.	Granted
2624	5440805	JP	Samsung Electronics Co., LTD.	Granted
2625	5644010	JP	Samsung Electronics Co., LTD.	Granted
2626	5644011	JP	Samsung Electronics Co., LTD.	Granted
2627	5644012	JP	Samsung Electronics Co., LTD.	Granted
2628	PI2010003681	MY	Samsung Electronics Co., LTD.	Pending
2629	2096761	NL	Samsung Electronics Co., LTD.	Granted
2630	2584707	NL	Samsung Electronics Co., LTD.	Granted
2631	2584708	NL	Samsung Electronics Co., LTD.	Granted
2632	2096761	NO	Samsung Electronics Co., LTD.	Granted
2633	2584707	NO	Samsung Electronics Co., LTD.	Granted
2634	2096761	PL	Samsung Electronics Co., LTD.	Granted

2635	2096761	PT	Samsung Electronics Co., LTD.	Granted
2636	2584707	PT	Samsung Electronics Co., LTD.	Granted
2637	2096761	RO	Samsung Electronics Co., LTD.	Granted
2638	2450443	RU	Samsung Electronics Co., LTD.	Granted
2639	2520406	RU	Samsung Electronics Co., LTD.	Granted
2640	2520405	RU	Samsung Electronics Co., LTD.	Granted
2641	2096761	SE	Samsung Electronics Co., LTD.	Granted
2642	2584707	SE	Samsung Electronics Co., LTD.	Granted
2643	2584708	SE	Samsung Electronics Co., LTD.	Granted
2644	163815	SG	Samsung Electronics Co., LTD.	Granted
2645	188820	SG	Samsung Electronics Co., LTD.	Granted
2646	10201401195Q	SG	Samsung Electronics Co., LTD.	Granted
2647	2096761	SI	Samsung Electronics Co., LTD.	Granted
2648	2096761	SK	Samsung Electronics Co., LTD.	Granted
2649	2096761	TR	Samsung Electronics Co., LTD.	Granted
2650	I399928	TW	Samsung Electronics Co., LTD.	Granted
2651	I511469	TW	Samsung Electronics Co., LTD.	Granted
2652	I511470	TW	Samsung Electronics Co., LTD.	Granted
2653	US8271846	US	Samsung Electronics Co., LTD.	Granted
2654	I3667	VN	Samsung Electronics Co., LTD.	Granted
2655	P20130113714	KR	Samsung Electronics Co., LTD.	Pending
2656	201410315991.2	CN	Samsung Electronics Co., LTD.	Pending
2657	14175265.9	EP	Samsung Electronics Co., LTD.	Pending
2658	P20130115739	KR	Samsung Electronics Co., LTD.	Pending
2659	US14/308977	US	Samsung Electronics Co., LTD.	Pending
2660	201410321144.7	CN	Samsung Electronics Co., LTD.	Pending
2661	14175742.7	EP	Samsung Electronics Co., LTD.	Pending
2662	P20140067800	KR	Samsung Electronics Co., LTD.	Pending
2663	US9300376	US	Samsung Electronics Co., LTD.	Granted
2664	201410318897.2	CN	Samsung Electronics Co., LTD.	Pending
2665	P20140075128	KR	Samsung Electronics Co., LTD.	Pending
2666	US9276654	US	Samsung Electronics Co., LTD.	Granted
2667	P20130112199	KR	Samsung Electronics Co., LTD.	Pending

2668	US9450704	US	Samsung Electronics Co., LTD.	Granted
2669	P20130066188	KR	Samsung Electronics Co., LTD.	Pending
2670	US14/290062	US	Samsung Electronics Co., LTD.	Pending
2671	P20130073222	KR	Samsung Electronics Co., LTD.	Pending
2672	US9548765	US	Samsung Electronics Co., LTD.	Granted
2673	P20130115740	KR	Samsung Electronics Co., LTD.	Pending
2674	US9467748	US	Samsung Electronics Co., LTD.	Granted
2675	P20130114787	KR	Samsung Electronics Co., LTD.	Pending
2676	US9553607	US	Samsung Electronics Co., LTD.	Granted
2677	P20130109542	KR	Samsung Electronics Co., LTD.	Pending
2678	US9210002	US	Samsung Electronics Co., LTD.	Granted
2679	P20130096061	KR	Samsung Electronics Co., LTD.	Pending
2680	US9667757	US	Samsung Electronics Co., LTD.	Granted
2681	P20130114921	KR	Samsung Electronics Co., LTD.	Pending
2682	US9559723	US	Samsung Electronics Co., LTD.	Granted
2683	P20130115400	KR	Samsung Electronics Co., LTD.	Pending
2684	US14/496388	US	Samsung Electronics Co., LTD.	Pending
2685	P20130114922	KR	Samsung Electronics Co., LTD.	Pending
2686	201480072208.2	CN	Samsung Electronics Co., LTD.	Pending
2687	P20140000808	KR	Samsung Electronics Co., LTD.	Pending
2688	US9571322	US	Samsung Electronics Co., LTD.	Granted
2689	P20140002942	KR	Samsung Electronics Co., LTD.	Pending
2690	US14/314487	US	Samsung Electronics Co., LTD.	Pending
2691	P20130166444	KR	Samsung Electronics Co., LTD.	Pending
2692	US9621396	US	Samsung Electronics Co., LTD.	Granted
2693	P20130115741	KR	Samsung Electronics Co., LTD.	Pending
2694	US14/273630	US	Samsung Electronics Co., LTD.	Pending
2695	P20140055634	KR	Samsung Electronics Co., LTD.	Pending
2696	US9356815	US	Samsung Electronics Co., LTD.	Granted
2697	P20140054755	KR	Samsung Electronics Co., LTD.	Pending
2698	US9231807	US	Samsung Electronics Co., LTD.	Granted
2699	P20140121189	KR	Samsung Electronics Co., LTD.	Pending
2700	US9184966	US	Samsung Electronics Co., LTD.	Granted

2701	P20140058323	KR	Samsung Electronics Co., LTD.	Pending
2702	US9362952	US	Samsung Electronics Co., LTD.	Granted
2703	P20140065370	KR	Samsung Electronics Co., LTD.	Pending
2704	US9553613	US	Samsung Electronics Co., LTD.	Granted
2705	AU 2011239128	AU	Samsung Electronics Co., LTD.	Granted
2706	2016201285	AU	Samsung Electronics Co., LTD.	Pending
2707	1120120253123	BR	Samsung Electronics Co., LTD.	Pending
2708	2795439	CA	Samsung Electronics Co., LTD.	Pending
2709	2887786	CA	Samsung Electronics Co., LTD.	Pending
2710	2887783	CA	Samsung Electronics Co., LTD.	Pending
2711	2887748	CA	Samsung Electronics Co., LTD.	Pending
2712	2887791	CA	Samsung Electronics Co., LTD.	Pending
2713	CN ZL201180027828.0	CN	Samsung Electronics Co., LTD.	Granted
2714	201510219893	CN	Samsung Electronics Co., LTD.	Pending
2715	201510217267	CN	Samsung Electronics Co., LTD.	Pending
2716	201510219881	CN	Samsung Electronics Co., LTD.	Pending
2717	201510217251	CN	Samsung Electronics Co., LTD.	Pending
2718	201510218304.X	CN	Samsung Electronics Co., LTD.	Pending
2719	11766125	EP	Samsung Electronics Co., LTD.	Pending
2720	15191860	EP	Samsung Electronics Co., LTD.	Pending
2721	15191912	EP	Samsung Electronics Co., LTD.	Pending
2722	15191964	EP	Samsung Electronics Co., LTD.	Pending
2723	15191968	EP	Samsung Electronics Co., LTD.	Pending
2724	ID P000039995	ID	Samsung Electronics Co., LTD.	Granted
2725	P-00201506991	ID	Samsung Electronics Co., LTD.	Pending
2726	P-00201506992	ID	Samsung Electronics Co., LTD.	Pending
2727	P-00201506993	ID	Samsung Electronics Co., LTD.	Pending
2728	P-00201506990	ID	Samsung Electronics Co., LTD.	Pending
2729	9227/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
2730	2357/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2731	2356/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2732	2355/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2733	2354/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending

2734	2353/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2735	2015-90686	JP	Samsung Electronics Co., LTD.	Pending
2736	KR 1529992	KR	Samsung Electronics Co., LTD.	Granted
2737	P20160064227	KR	Samsung Electronics Co., LTD.	Pending
2738	MX 316237	MX	Samsung Electronics Co., LTD.	Granted
2739	MX 320438	MX	Samsung Electronics Co., LTD.	Granted
2740	MX 320437	MX	Samsung Electronics Co., LTD.	Granted
2741	MX 320436	MX	Samsung Electronics Co., LTD.	Granted
2742	MX 320433	MX	Samsung Electronics Co., LTD.	Granted
2743	MY-154665-A	MY	Samsung Electronics Co., LTD.	Granted
2744	PI2014003542	MY	Samsung Electronics Co., LTD.	Pending
2745	PI2015000863	MY	Samsung Electronics Co., LTD.	Pending
2746	PI2015000867	MY	Samsung Electronics Co., LTD.	Pending
2747	PI2015000868	MY	Samsung Electronics Co., LTD.	Pending
2748	RU 2554555	RU	Samsung Electronics Co., LTD.	Granted
2749	2015118706	RU	Samsung Electronics Co., LTD.	Pending
2750	2015118705	RU	Samsung Electronics Co., LTD.	Pending
2751	2015118881	RU	Samsung Electronics Co., LTD.	Pending
2752	2015118723	RU	Samsung Electronics Co., LTD.	Pending
2753	US 8982962	US	Samsung Electronics Co., LTD.	Granted
2754	US 9118914	US	Samsung Electronics Co., LTD.	Granted
2755	US 9124892	US	Samsung Electronics Co., LTD.	Granted
2756	US 9124893	US	Samsung Electronics Co., LTD.	Granted
2757	US 9124894	US	Samsung Electronics Co., LTD.	Granted
2758	US14/802584	US	Samsung Electronics Co., LTD.	Pending
2759	1-2012-03280	VN	Samsung Electronics Co., LTD.	Pending
2760	1-2016-01901	VN	Samsung Electronics Co., LTD.	Pending
2761	1-2016-01902	VN	Samsung Electronics Co., LTD.	Pending
2762	1-2016-01903	VN	Samsung Electronics Co., LTD.	Pending
2763	1-2016-01904	VN	Samsung Electronics Co., LTD.	Pending
2764	2015/00711	ZA	Samsung Electronics Co., LTD.	Pending
2765	2015/00712	ZA	Samsung Electronics Co., LTD.	Pending
2766	2015/00713	ZA	Samsung Electronics Co., LTD.	Pending

2767	2015/00714	ZA	Samsung Electronics Co., LTD.	Pending
2768	AL 2545713	AL	Samsung Electronics Co., LTD.	Granted
2769	AT 2545713	AT	Samsung Electronics Co., LTD.	Granted
2770	AU 2011239130	AU	Samsung Electronics Co., LTD.	Granted
2771	BE 2545713	BE	Samsung Electronics Co., LTD.	Granted
2772	BG 2545713	BG	Samsung Electronics Co., LTD.	Granted
2773	1120120253107	BR	Samsung Electronics Co., LTD.	Pending
2774	2795475	CA	Samsung Electronics Co., LTD.	Pending
2775	2884205	CA	Samsung Electronics Co., LTD.	Pending
2776	2884540	CA	Samsung Electronics Co., LTD.	Pending
2777	2884537	CA	Samsung Electronics Co., LTD.	Pending
2778	2884486	CA	Samsung Electronics Co., LTD.	Pending
2779	CH 2545713	CH	Samsung Electronics Co., LTD.	Granted
2780	201180027803	CN	Samsung Electronics Co., LTD.	Pending
2781	201510175695	CN	Samsung Electronics Co., LTD.	Pending
2782	201510173765.X	CN	Samsung Electronics Co., LTD.	Pending
2783	201510175695	CN	Samsung Electronics Co., LTD.	Pending
2784	201510175913	CN	Samsung Electronics Co., LTD.	Pending
2785	201510175162	CN	Samsung Electronics Co., LTD.	Pending
2786	201510173807.X	CN	Samsung Electronics Co., LTD.	Pending
2787	CY 2545713	CY	Samsung Electronics Co., LTD.	Granted
2788	CZ 2545713	CZ	Samsung Electronics Co., LTD.	Granted
2789	DE 60 2011 026 738.8	DE	Samsung Electronics Co., LTD.	Granted
2790	DK 2545713	DK	Samsung Electronics Co., LTD.	Granted
2791	EE 2545713	EE	Samsung Electronics Co., LTD.	Granted
2792	15160768	EP	Samsung Electronics Co., LTD.	Pending
2793	15160769	EP	Samsung Electronics Co., LTD.	Pending
2794	15160769	EP	Samsung Electronics Co., LTD.	Pending
2795	15160770	EP	Samsung Electronics Co., LTD.	Pending
2796	ES 2545713	ES	Samsung Electronics Co., LTD.	Granted
2797	FI 2545713	FI	Samsung Electronics Co., LTD.	Granted
2798	FR 2545713	FR	Samsung Electronics Co., LTD.	Granted
2799	GB 2545713	GB	Samsung Electronics Co., LTD.	Granted

2800	GR 2545713	GR	Samsung Electronics Co., LTD.	Granted
2801	HR 2545713	HR	Samsung Electronics Co., LTD.	Granted
2802	HU 2545713	HU	Samsung Electronics Co., LTD.	Granted
2803	W-00201204524	ID	Samsung Electronics Co., LTD.	Pending
2804	P-00201501778	ID	Samsung Electronics Co., LTD.	Pending
2805	P-00201501779	ID	Samsung Electronics Co., LTD.	Pending
2806	P-00201501780	ID	Samsung Electronics Co., LTD.	Pending
2807	P-00201501781	ID	Samsung Electronics Co., LTD.	Pending
2808	P-00201501782	ID	Samsung Electronics Co., LTD.	Pending
2809	IE 2545713	IE	Samsung Electronics Co., LTD.	Granted
2810	9254/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
2811	1673/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2812	1674/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2813	1683/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2814	1680/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2815	1682/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
2816	IS 2545713	IS	Samsung Electronics Co., LTD.	Granted
2817	IT 2545713	IT	Samsung Electronics Co., LTD.	Granted
2818	2015-95268	JP	Samsung Electronics Co., LTD.	Pending
2819	2015-95269	JP	Samsung Electronics Co., LTD.	Pending
2820	2015-95270	JP	Samsung Electronics Co., LTD.	Pending
2821	2015-95271	JP	Samsung Electronics Co., LTD.	Pending
2822	KR 1503269	KR	Samsung Electronics Co., LTD.	Granted
2823	P20140148755	KR	Samsung Electronics Co., LTD.	Pending
2824	P20150034010	KR	Samsung Electronics Co., LTD.	Pending
2825	P20150034011	KR	Samsung Electronics Co., LTD.	Pending
2826	P20150034012	KR	Samsung Electronics Co., LTD.	Pending
2827	P20150034013	KR	Samsung Electronics Co., LTD.	Pending
2828	LI 2545713	LI	Samsung Electronics Co., LTD.	Granted
2829	LT 2545713	LT	Samsung Electronics Co., LTD.	Granted
2830	LU 2545713	LU	Samsung Electronics Co., LTD.	Granted
2831	LV 2545713	LV	Samsung Electronics Co., LTD.	Granted
2832	MC 2545713	MC	Samsung Electronics Co., LTD.	Granted

2833	MK 2545713	MK	Samsung Electronics Co., LTD.	Granted
2834	MT 2545713	MT	Samsung Electronics Co., LTD.	Granted
2835	MX 310105	MX	Samsung Electronics Co., LTD.	Granted
2836	PI2012004419	MY	Samsung Electronics Co., LTD.	Pending
2837	PI2015000649	MY	Samsung Electronics Co., LTD.	Pending
2838	Pi2015000651	MY	Samsung Electronics Co., LTD.	Pending
2839	PI2015000650	MY	Samsung Electronics Co., LTD.	Pending
2840	PI2015000652	MY	Samsung Electronics Co., LTD.	Pending
2841	PI2015000648	MY	Samsung Electronics Co., LTD.	Pending
2842	NL 2545713	NL	Samsung Electronics Co., LTD.	Granted
2843	NO 2545713	NO	Samsung Electronics Co., LTD.	Granted
2844	PL 2545713	PL	Samsung Electronics Co., LTD.	Granted
2845	PT 2545713	PT	Samsung Electronics Co., LTD.	Granted
2846	RO 2545713	RO	Samsung Electronics Co., LTD.	Granted
2847	RS 2545713	RS	Samsung Electronics Co., LTD.	Granted
2848	RU 2542884	RU	Samsung Electronics Co., LTD.	Granted
2849	2014153750	RU	Samsung Electronics Co., LTD.	Pending
2850	2014153851	RU	Samsung Electronics Co., LTD.	Pending
2851	2014153752	RU	Samsung Electronics Co., LTD.	Pending
2852	2014153849	RU	Samsung Electronics Co., LTD.	Pending
2853	2014153748	RU	Samsung Electronics Co., LTD.	Pending
2854	SE 2545713	SE	Samsung Electronics Co., LTD.	Granted
2855	SI 2545713	SI	Samsung Electronics Co., LTD.	Granted
2856	SK 2545713	SK	Samsung Electronics Co., LTD.	Granted
2857	SM 2545713	SM	Samsung Electronics Co., LTD.	Granted
2858	TR 2545713	TR	Samsung Electronics Co., LTD.	Granted
2859	US 8964840	US	Samsung Electronics Co., LTD.	Granted
2860	US14/597808	US	Samsung Electronics Co., LTD.	Pending
2861	US14/597853	US	Samsung Electronics Co., LTD.	Pending
2862	US14/597724	US	Samsung Electronics Co., LTD.	Pending
2863	1-2012-03277	VN	Samsung Electronics Co., LTD.	Pending
2864	1-2015-00807	VN	Samsung Electronics Co., LTD.	Pending
2865	1-2015-00806	VN	Samsung Electronics Co., LTD.	Pending

2866	1-2015-00808	VN	Samsung Electronics Co., LTD.	Pending
2867	1-2015-00809	VN	Samsung Electronics Co., LTD.	Pending
2868	2015/000715	ZA	Samsung Electronics Co., LTD.	Pending
2869	2015/000716	ZA	Samsung Electronics Co., LTD.	Pending
2870	2015/000718	ZA	Samsung Electronics Co., LTD.	Pending
2871	2015/000719	ZA	Samsung Electronics Co., LTD.	Pending
2872	CN ZL201180014824.9	CN	Samsung Electronics Co., LTD.	Granted
2873	201510445851	CN	Samsung Electronics Co., LTD.	Pending
2874	201510446035	CN	Samsung Electronics Co., LTD.	Pending
2875	201510445869	CN	Samsung Electronics Co., LTD.	Pending
2876	201510446031	CN	Samsung Electronics Co., LTD.	Pending
2877	201510445625	CN	Samsung Electronics Co., LTD.	Pending
2878	11734862	EP	Samsung Electronics Co., LTD.	Pending
2879	2012-549942	JP	Samsung Electronics Co., LTD.	Pending
2880	2016-111255	JP	Samsung Electronics Co., LTD.	Pending
2881	P20160034725	KR	Samsung Electronics Co., LTD.	Pending
2882	PI2012003278	MY	Samsung Electronics Co., LTD.	Pending
2883	1-2012-501455	PH	Samsung Electronics Co., LTD.	Pending
2884	1201003611	TH	Samsung Electronics Co., LTD.	Pending
2885	US15/133918	US	Samsung Electronics Co., LTD.	Pending
2886	1-2012-02447	VN	Samsung Electronics Co., LTD.	Pending
2887	1-2016-00371	VN	Samsung Electronics Co., LTD.	Pending
2888	CN ZL201180034696.4	CN	Samsung Electronics Co., LTD.	Granted
2889	201610374155	CN	Samsung Electronics Co., LTD.	Pending
2890	201610373549	CN	Samsung Electronics Co., LTD.	Pending
2891	201610374809	CN	Samsung Electronics Co., LTD.	Pending
2892	11780863	EP	Samsung Electronics Co., LTD.	Pending
2893	W-00201205186	ID	Samsung Electronics Co., LTD.	Pending
2894	P20110006485	KR	Samsung Electronics Co., LTD.	Pending
2895	PI2012004942	MY	Samsung Electronics Co., LTD.	Pending
2896	PI2014002343	MY	Samsung Electronics Co., LTD.	Pending
2897	PI2015000990	MY	Samsung Electronics Co., LTD.	Pending
2898	PI2015000992	MY	Samsung Electronics Co., LTD.	Pending

2899	PI2015000991	MY	Samsung Electronics Co., LTD.	Pending
2900	US13/108188	US	Samsung Electronics Co., LTD.	Pending
2901	1-2012-03745	VN	Samsung Electronics Co., LTD.	Pending
2902	2015218476	AU	Samsung Electronics Co., LTD.	Pending
2903	2016213718	AU	Samsung Electronics Co., LTD.	Pending
2904	1120130005580	BR	Samsung Electronics Co., LTD.	Pending
2905	2921710	CA	Samsung Electronics Co., LTD.	Pending
2906	CN ZL201180043638.8	CN	Samsung Electronics Co., LTD.	Granted
2907	201610305425	CN	Samsung Electronics Co., LTD.	Pending
2908	201610304349	CN	Samsung Electronics Co., LTD.	Pending
2909	201610305656	CN	Samsung Electronics Co., LTD.	Pending
2910	201610305591	CN	Samsung Electronics Co., LTD.	Pending
2911	11803837	EP	Samsung Electronics Co., LTD.	Pending
2912	16180224	EP	Samsung Electronics Co., LTD.	Pending
2913	16180225	EP	Samsung Electronics Co., LTD.	Pending
2914	16180228	EP	Samsung Electronics Co., LTD.	Pending
2915	W-00201300542	ID	Samsung Electronics Co., LTD.	Pending
2916	P-00201603246	ID	Samsung Electronics Co., LTD.	Pending
2917	P-00201603233	ID	Samsung Electronics Co., LTD.	Pending
2918	P-00201603232	ID	Samsung Electronics Co., LTD.	Pending
2919	P-00201603231	ID	Samsung Electronics Co., LTD.	Pending
2920	1039/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
2921	2016-5602	JP	Samsung Electronics Co., LTD.	Pending
2922	P20110067996	KR	Samsung Electronics Co., LTD.	Pending
2923	PI2013000067	MY	Samsung Electronics Co., LTD.	Pending
2924	PI2015000038	MY	Samsung Electronics Co., LTD.	Pending
2925	PI2015000862	MY	Samsung Electronics Co., LTD.	Pending
2926	PI2015000870	MY	Samsung Electronics Co., LTD.	Pending
2927	PI2015000864	MY	Samsung Electronics Co., LTD.	Pending
2928	1-2013-500062	PH	Samsung Electronics Co., LTD.	Pending
2929	1-2015-500942	PH	Samsung Electronics Co., LTD.	Pending
2930	1-2015-500943	PH	Samsung Electronics Co., LTD.	Pending
2931	1-2015-500944	PH	Samsung Electronics Co., LTD.	Pending

2932	1-2015-500945	PH	Samsung Electronics Co., LTD.	Pending
2933	2014133412	RU	Samsung Electronics Co., LTD.	Pending
2934	201307864-7	SG	Samsung Electronics Co., LTD.	Pending
2935	1301000136	TH	Samsung Electronics Co., LTD.	Pending
2936	1-2013-00416	VN	Samsung Electronics Co., LTD.	Pending
2937	2015/02806	ZA	Samsung Electronics Co., LTD.	Pending
2938	2015/02807	ZA	Samsung Electronics Co., LTD.	Pending
2939	2015/02809	ZA	Samsung Electronics Co., LTD.	Pending
2940	2015/02810	ZA	Samsung Electronics Co., LTD.	Pending
2941	1120130005599	BR	Samsung Electronics Co., LTD.	Pending
2942	BR1220150138710	BR	Samsung Electronics Co., LTD.	Pending
2943	BR1220150138892	BR	Samsung Electronics Co., LTD.	Pending
2944	BR1220150138876	BR	Samsung Electronics Co., LTD.	Pending
2945	BR1220150138850	BR	Samsung Electronics Co., LTD.	Pending
2946	201180043465	CN	Samsung Electronics Co., LTD.	Pending
2947	201510195306	CN	Samsung Electronics Co., LTD.	Pending
2948	201510293875.X	CN	Samsung Electronics Co., LTD.	Pending
2949	201510292289	CN	Samsung Electronics Co., LTD.	Pending
2950	201510292537	CN	Samsung Electronics Co., LTD.	Pending
2951	11803836	EP	Samsung Electronics Co., LTD.	Pending
2952	15167257	EP	Samsung Electronics Co., LTD.	Pending
2953	15167257	EP	Samsung Electronics Co., LTD.	Pending
2954	15167258	EP	Samsung Electronics Co., LTD.	Pending
2955	15167260	EP	Samsung Electronics Co., LTD.	Pending
2956	P-00201503934	ID	Samsung Electronics Co., LTD.	Pending
2957	P-00201503936	ID	Samsung Electronics Co., LTD.	Pending
2958	P-00201503940	ID	Samsung Electronics Co., LTD.	Pending
2959	P-002015034944	ID	Samsung Electronics Co., LTD.	Pending
2960	2013-519576	JP	Samsung Electronics Co., LTD.	Pending
2961	KR 1456499	KR	Samsung Electronics Co., LTD.	Granted
2962	KR 1507811	KR	Samsung Electronics Co., LTD.	Granted
2963	PI2013000070	MY	Samsung Electronics Co., LTD.	Pending
2964	PI 2015000285	MY	Samsung Electronics Co., LTD.	Pending

2965	PI 2015000284	MY	Samsung Electronics Co., LTD.	Pending
2966	PI 2015000283	MY	Samsung Electronics Co., LTD.	Pending
2967	PI 2015000282	MY	Samsung Electronics Co., LTD.	Pending
2968	1-2013-500059	PH	Samsung Electronics Co., LTD.	Pending
2969	1-2015-500254	PH	Samsung Electronics Co., LTD.	Pending
2970	1-2005-500256	PH	Samsung Electronics Co., LTD.	Pending
2971	1-2015-500255	PH	Samsung Electronics Co., LTD.	Pending
2972	1-2015-500257	PH	Samsung Electronics Co., LTD.	Pending
2973	SG 186978	SG	Samsung Electronics Co., LTD.	Granted
2974	SG 195593	SG	Samsung Electronics Co., LTD.	Granted
2975	10201503795R	SG	Samsung Electronics Co., LTD.	Pending
2976	10201503796P	SG	Samsung Electronics Co., LTD.	Pending
2977	10201503797Q	SG	Samsung Electronics Co., LTD.	Pending
2978	10201503798S	SG	Samsung Electronics Co., LTD.	Pending
2979	US14/615165	US	Samsung Electronics Co., LTD.	Pending
2980	US14/615194	US	Samsung Electronics Co., LTD.	Pending
2981	US14/615219	US	Samsung Electronics Co., LTD.	Pending
2982	1-2015-01708	VN	Samsung Electronics Co., LTD.	Pending
2983	1-2015-01709	VN	Samsung Electronics Co., LTD.	Pending
2984	1-2015-01710	VN	Samsung Electronics Co., LTD.	Pending
2985	1-2015-01711	VN	Samsung Electronics Co., LTD.	Pending
2986	AU 2011274722	AU	Samsung Electronics Co., LTD.	Granted
2987	2015201569	AU	Samsung Electronics Co., LTD.	Pending
2988	2015201608	AU	Samsung Electronics Co., LTD.	Pending
2989	2015201606	AU	Samsung Electronics Co., LTD.	Pending
2990	2015201607	AU	Samsung Electronics Co., LTD.	Pending
2991	1120130005556	BR	Samsung Electronics Co., LTD.	Pending
2992	2804780	CA	Samsung Electronics Co., LTD.	Pending
2993	2886721	CA	Samsung Electronics Co., LTD.	Pending
2994	2886960	CA	Samsung Electronics Co., LTD.	Pending
2995	2886964	CA	Samsung Electronics Co., LTD.	Pending
2996	201180043660	CN	Samsung Electronics Co., LTD.	Pending
2997	201510206249	CN	Samsung Electronics Co., LTD.	Pending

2998	201510204803	CN	Samsung Electronics Co., LTD.	Pending
2999	201510204900	CN	Samsung Electronics Co., LTD.	Pending
3000	201510203207	CN	Samsung Electronics Co., LTD.	Pending
3001	201510204652	CN	Samsung Electronics Co., LTD.	Pending
3002	11803807	EP	Samsung Electronics Co., LTD.	Pending
3003	14193557	EP	Samsung Electronics Co., LTD.	Pending
3004	15154330	EP	Samsung Electronics Co., LTD.	Pending
3005	15166149	EP	Samsung Electronics Co., LTD.	Pending
3006	15166150	EP	Samsung Electronics Co., LTD.	Pending
3007	W-00201300539	ID	Samsung Electronics Co., LTD.	Pending
3008	P-00201503420	ID	Samsung Electronics Co., LTD.	Pending
3009	P-00201503421	ID	Samsung Electronics Co., LTD.	Pending
3010	P-00201503424	ID	Samsung Electronics Co., LTD.	Pending
3011	P-00201503426	ID	Samsung Electronics Co., LTD.	Pending
3012	909/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
3013	2253/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3014	2254/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3015	2262/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3016	2263/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3017	2264/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3018	JP 5738991	JP	Samsung Electronics Co., LTD.	Granted
3019	KR 1524643	KR	Samsung Electronics Co., LTD.	Granted
3020	P20140097624	KR	Samsung Electronics Co., LTD.	Pending
3021	MX 313959	MX	Samsung Electronics Co., LTD.	Granted
3022	MY-156223-A	MY	Samsung Electronics Co., LTD.	Granted
3023	PI2014003581	MY	Samsung Electronics Co., LTD.	Pending
3024	PI2015000881	MY	Samsung Electronics Co., LTD.	Pending
3025	PI2015000880	MY	Samsung Electronics Co., LTD.	Pending
3026	PI2015000879	MY	Samsung Electronics Co., LTD.	Pending
3027	1-2013-500058	PH	Samsung Electronics Co., LTD.	Pending
3028	1-2015-500916	PH	Samsung Electronics Co., LTD.	Pending
3029	1-2015-500918	PH	Samsung Electronics Co., LTD.	Pending
3030	1-2015-500919	PH	Samsung Electronics Co., LTD.	Pending

3031	1-2015-500917	PH	Samsung Electronics Co., LTD.	Pending
3032	2013105501	RU	Samsung Electronics Co., LTD.	Pending
3033	RU 2577182	RU	Samsung Electronics Co., LTD.	Granted
3034	SG 186970	SG	Samsung Electronics Co., LTD.	Granted
3035	SG 196797	SG	Samsung Electronics Co., LTD.	Granted
3036	SG 10201503379S	SG	Samsung Electronics Co., LTD.	Granted
3037	SG 10201503381W	SG	Samsung Electronics Co., LTD.	Granted
3038	SG 10201503383P	SG	Samsung Electronics Co., LTD.	Granted
3039	1301000134	TH	Samsung Electronics Co., LTD.	Pending
3040	US8885727	US	Samsung Electronics Co., LTD.	Granted
3041	US14/299896	US	Samsung Electronics Co., LTD.	Pending
3042	US14/299942	US	Samsung Electronics Co., LTD.	Pending
3043	US14/299801	US	Samsung Electronics Co., LTD.	Pending
3044	US14/299863	US	Samsung Electronics Co., LTD.	Pending
3045	US14/299897	US	Samsung Electronics Co., LTD.	Pending
3046	1-2013-00423	VN	Samsung Electronics Co., LTD.	Pending
3047	1-2015-01507	VN	Samsung Electronics Co., LTD.	Pending
3048	1-2015-01508	VN	Samsung Electronics Co., LTD.	Pending
3049	1-2015-01509	VN	Samsung Electronics Co., LTD.	Pending
3050	1-2015-01510	VN	Samsung Electronics Co., LTD.	Pending
3051	2015/02591	ZA	Samsung Electronics Co., LTD.	Pending
3052	2015/02592	ZA	Samsung Electronics Co., LTD.	Pending
3053	2015/02593	ZA	Samsung Electronics Co., LTD.	Pending
3054	2015/02594	ZA	Samsung Electronics Co., LTD.	Pending
3055	P20160094148	KR	Samsung Electronics Co., LTD.	Pending
3056	LI 2665267	LI	Samsung Electronics Co., LTD.	Granted
3057	LI 2804383	LI	Samsung Electronics Co., LTD.	Granted
3058	LT 2665267	LT	Samsung Electronics Co., LTD.	Granted
3059	LT 2804383	LT	Samsung Electronics Co., LTD.	Granted
3060	LU 2665267	LU	Samsung Electronics Co., LTD.	Granted
3061	LU 2804383	LU	Samsung Electronics Co., LTD.	Granted
3062	LV 2665267	LV	Samsung Electronics Co., LTD.	Granted
3063	LV 2804383	LV	Samsung Electronics Co., LTD.	Granted

3064	MC 2665267	MC	Samsung Electronics Co., LTD.	Granted
3065	MC 2804383	MC	Samsung Electronics Co., LTD.	Granted
3066	MK 2665267	MK	Samsung Electronics Co., LTD.	Granted
3067	MK 2804383	MK	Samsung Electronics Co., LTD.	Granted
3068	MT 2665267	MT	Samsung Electronics Co., LTD.	Granted
3069	MT 2804383	MT	Samsung Electronics Co., LTD.	Granted
3070	MX 320213	MX	Samsung Electronics Co., LTD.	Granted
3071	MX 320209	MX	Samsung Electronics Co., LTD.	Granted
3072	MX 322645	MX	Samsung Electronics Co., LTD.	Granted
3073	MX 320205	MX	Samsung Electronics Co., LTD.	Granted
3074	PI2012000237	MY	Samsung Electronics Co., LTD.	Pending
3075	MY-155175-A	MY	Samsung Electronics Co., LTD.	Granted
3076	MY-155121-A	MY	Samsung Electronics Co., LTD.	Granted
3077	MY-154147-A	MY	Samsung Electronics Co., LTD.	Granted
3078	PI 2015000361	MY	Samsung Electronics Co., LTD.	Pending
3079	PI2015001521	MY	Samsung Electronics Co., LTD.	Pending
3080	NL 2665267	NL	Samsung Electronics Co., LTD.	Granted
3081	NL 2804383	NL	Samsung Electronics Co., LTD.	Granted
3082	NO 2665267	NO	Samsung Electronics Co., LTD.	Granted
3083	NO 2804383	NO	Samsung Electronics Co., LTD.	Granted
3084	PL 2665267	PL	Samsung Electronics Co., LTD.	Granted
3085	PL 2804383	PL	Samsung Electronics Co., LTD.	Granted
3086	PT 2665267	PT	Samsung Electronics Co., LTD.	Granted
3087	PT 2804383	PT	Samsung Electronics Co., LTD.	Granted
3088	RO 2665267	RO	Samsung Electronics Co., LTD.	Granted
3089	RO 2804383	RO	Samsung Electronics Co., LTD.	Granted
3090	RU 2519280	RU	Samsung Electronics Co., LTD.	Granted
3091	SE 2665267	SE	Samsung Electronics Co., LTD.	Granted
3092	SE 2804383	SE	Samsung Electronics Co., LTD.	Granted
3093	SI 2665267	SI	Samsung Electronics Co., LTD.	Granted
3094	SI 2804383	SI	Samsung Electronics Co., LTD.	Granted
3095	SK 2665267	SK	Samsung Electronics Co., LTD.	Granted
3096	SK 2804383	SK	Samsung Electronics Co., LTD.	Granted

3097	SM 2665267	SM	Samsung Electronics Co., LTD.	Granted
3098	SM 2804383	SM	Samsung Electronics Co., LTD.	Granted
3099	TR 2665267	TR	Samsung Electronics Co., LTD.	Granted
3100	TR 2804383	TR	Samsung Electronics Co., LTD.	Granted
3101	TW I430668	TW	Samsung Electronics Co., LTD.	Granted
3102	TW I429291	TW	Samsung Electronics Co., LTD.	Granted
3103	TW I426784	TW	Samsung Electronics Co., LTD.	Granted
3104	TW I462594	TW	Samsung Electronics Co., LTD.	Granted
3105	TW I474722	TW	Samsung Electronics Co., LTD.	Granted
3106	TW I475889	TW	Samsung Electronics Co., LTD.	Granted
3107	I04102055	TW	Samsung Electronics Co., LTD.	Pending
3108	US13/764119	US	Samsung Electronics Co., LTD.	Pending
3109	US 8953682	US	Samsung Electronics Co., LTD.	Granted
3110	US 8842734	US	Samsung Electronics Co., LTD.	Granted
3111	US 9307238	US	Samsung Electronics Co., LTD.	Granted
3112	US14/300047	US	Samsung Electronics Co., LTD.	Pending
3113	US 9313490	US	Samsung Electronics Co., LTD.	Granted
3114	1-2013-00802	VN	Samsung Electronics Co., LTD.	Pending
3115	1-2013-00801	VN	Samsung Electronics Co., LTD.	Pending
3116	1-2015-00300	VN	Samsung Electronics Co., LTD.	Pending
3117	1-2015-00299	VN	Samsung Electronics Co., LTD.	Pending
3118	1-2015-02717	VN	Samsung Electronics Co., LTD.	Pending
3119	ZA 2013/03523	ZA	Samsung Electronics Co., LTD.	Granted
3120	ZA 2013/03522	ZA	Samsung Electronics Co., LTD.	Granted
3121	ZA 2014/03018	ZA	Samsung Electronics Co., LTD.	Granted
3122	ZA 2014/03019	ZA	Samsung Electronics Co., LTD.	Granted
3123	ZA 2014/03020	ZA	Samsung Electronics Co., LTD.	Granted
3124	AU 2010283121	AU	Samsung Electronics Co., LTD.	Granted
3125	AU 2013201857	AU	Samsung Electronics Co., LTD.	Granted
3126	AU 2013201858	AU	Samsung Electronics Co., LTD.	Granted
3127	AU 2013201859	AU	Samsung Electronics Co., LTD.	Granted
3128	BR112012001514	BR	Samsung Electronics Co., LTD.	Pending
3129	1220130190163	BR	Samsung Electronics Co., LTD.	Pending

3130	1220130190171	BR	Samsung Electronics Co., LTD.	Pending
3131	1220130190180	BR	Samsung Electronics Co., LTD.	Pending
3132	2768182	CA	Samsung Electronics Co., LTD.	Pending
3133	2820905	CA	Samsung Electronics Co., LTD.	Pending
3134	CA 2820553	CA	Samsung Electronics Co., LTD.	Granted
3135	2877202	CA	Samsung Electronics Co., LTD.	Pending
3136	CN ZL201080036026.1	CN	Samsung Electronics Co., LTD.	Granted
3137	201310132005.5	CN	Samsung Electronics Co., LTD.	Pending
3138	201310130439.1	CN	Samsung Electronics Co., LTD.	Pending
3139	201310131990.8	CN	Samsung Electronics Co., LTD.	Pending
3140	201510002248.6	CN	Samsung Electronics Co., LTD.	Pending
3141	201510001768.5	CN	Samsung Electronics Co., LTD.	Pending
3142	10808396.5	EP	Samsung Electronics Co., LTD.	Pending
3143	13185336.8	EP	Samsung Electronics Co., LTD.	Pending
3144	13185337.6	EP	Samsung Electronics Co., LTD.	Pending
3145	13185335.0	EP	Samsung Electronics Co., LTD.	Pending
3146	15168128.5	EP	Samsung Electronics Co., LTD.	Pending
3147	ID W00201200067	ID	Samsung Electronics Co., LTD.	Granted
3148	ID W-00201302753	ID	Samsung Electronics Co., LTD.	Granted
3149	W-00201302752	ID	Samsung Electronics Co., LTD.	Pending
3150	W-00201302751	ID	Samsung Electronics Co., LTD.	Pending
3151	529/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3152	664/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3153	666/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3154	667/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3155	1291/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3156	1292/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3157	JP 5756106	JP	Samsung Electronics Co., LTD.	Granted
3158	JP 5624178	JP	Samsung Electronics Co., LTD.	Granted
3159	JP 5571827	JP	Samsung Electronics Co., LTD.	Granted
3160	JP 5624179	JP	Samsung Electronics Co., LTD.	Granted
3161	KR 1452859	KR	Samsung Electronics Co., LTD.	Granted
3162	KR 1454664	KR	Samsung Electronics Co., LTD.	Granted

3163	KR 1477545	KR	Samsung Electronics Co., LTD.	Granted
3164	KR 1477546	KR	Samsung Electronics Co., LTD.	Granted
3165	P20160022010	KR	Samsung Electronics Co., LTD.	Pending
3166	MX 319251	MX	Samsung Electronics Co., LTD.	Granted
3167	MX 318519	MX	Samsung Electronics Co., LTD.	Granted
3168	MX 323298	MX	Samsung Electronics Co., LTD.	Granted
3169	MX 328193	MX	Samsung Electronics Co., LTD.	Granted
3170	MX 327687	MX	Samsung Electronics Co., LTD.	Granted
3171	PI2012000197	MY	Samsung Electronics Co., LTD.	Pending
3172	MY-154795-A	MY	Samsung Electronics Co., LTD.	Granted
3173	MY 155891-A	MY	Samsung Electronics Co., LTD.	Granted
3174	PI2013003328	MY	Samsung Electronics Co., LTD.	Pending
3175	RU 2559740	RU	Samsung Electronics Co., LTD.	Granted
3176	RU 2559738	RU	Samsung Electronics Co., LTD.	Granted
3177	2015120773	RU	Samsung Electronics Co., LTD.	Pending
3178	2015120764	RU	Samsung Electronics Co., LTD.	Pending
3179	TW I413417	TW	Samsung Electronics Co., LTD.	Granted
3180	TW I424749	TW	Samsung Electronics Co., LTD.	Granted
3181	TW I432033	TW	Samsung Electronics Co., LTD.	Granted
3182	I02129568	TW	Samsung Electronics Co., LTD.	Pending
3183	TW I468019	TW	Samsung Electronics Co., LTD.	Granted
3184	TW I462593	TW	Samsung Electronics Co., LTD.	Granted
3185	US 8792558	US	Samsung Electronics Co., LTD.	Granted
3186	US 8787463	US	Samsung Electronics Co., LTD.	Granted
3187	US 8811488	US	Samsung Electronics Co., LTD.	Granted
3188	US14/341493	US	Samsung Electronics Co., LTD.	Pending
3189	1-2013-00832	VN	Samsung Electronics Co., LTD.	Pending
3190	1-2013-00833	VN	Samsung Electronics Co., LTD.	Pending
3191	1-2013-00835	VN	Samsung Electronics Co., LTD.	Pending
3192	1-2015-01764	VN	Samsung Electronics Co., LTD.	Pending
3193	ZA 2012/01158	ZA	Samsung Electronics Co., LTD.	Granted
3194	ZA 2013/04975	ZA	Samsung Electronics Co., LTD.	Granted
3195	ZA 2013/04976	ZA	Samsung Electronics Co., LTD.	Granted

3196	ZA 2013/04977	ZA	Samsung Electronics Co., LTD.	Granted
3197	2015/03389	ZA	Samsung Electronics Co., LTD.	Pending
3198	AU 2010285491	AU	Samsung Electronics Co., LTD.	Granted
3199	AU 2013201719	AU	Samsung Electronics Co., LTD.	Granted
3200	AU 2013201715	AU	Samsung Electronics Co., LTD.	Granted
3201	2014200535	AU	Samsung Electronics Co., LTD.	Pending
3202	AU 2014200537	AU	Samsung Electronics Co., LTD.	Granted
3203	2015202670	AU	Samsung Electronics Co., LTD.	Pending
3204	BR1120120034308	BR	Samsung Electronics Co., LTD.	Pending
3205	1220130201840	BR	Samsung Electronics Co., LTD.	Pending
3206	1220130201858	BR	Samsung Electronics Co., LTD.	Pending
3207	CA 2823808	CA	Samsung Electronics Co., LTD.	Granted
3208	2857365	CA	Samsung Electronics Co., LTD.	Pending
3209	2857370	CA	Samsung Electronics Co., LTD.	Pending
3210	2857392	CA	Samsung Electronics Co., LTD.	Pending
3211	CN 201080036789.6	CN	Samsung Electronics Co., LTD.	Granted
3212	CN ZL201310096270.2	CN	Samsung Electronics Co., LTD.	Granted
3213	CN ZL201310096284.4	CN	Samsung Electronics Co., LTD.	Granted
3214	201510075767.5	CN	Samsung Electronics Co., LTD.	Pending
3215	201510075249.3	CN	Samsung Electronics Co., LTD.	Pending
3216	201510075768.X	CN	Samsung Electronics Co., LTD.	Pending
3217	10810146.0	EP	Samsung Electronics Co., LTD.	Pending
3218	13185319.4	EP	Samsung Electronics Co., LTD.	Pending
3219	13185327.7	EP	Samsung Electronics Co., LTD.	Pending
3220	15168609.4	EP	Samsung Electronics Co., LTD.	Pending
3221	15168611.0	EP	Samsung Electronics Co., LTD.	Pending
3222	ID W-00201200066	ID	Samsung Electronics Co., LTD.	Granted
3223	ID P000039760	ID	Samsung Electronics Co., LTD.	Granted
3224	W-00201302942	ID	Samsung Electronics Co., LTD.	Pending
3225	604/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3226	634/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3227	633/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3228	1293/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending

3229	1295/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3230	1296/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3231	JP 5770185	JP	Samsung Electronics Co., LTD.	Granted
3232	2013-211775	JP	Samsung Electronics Co., LTD.	Pending
3233	2013-211776	JP	Samsung Electronics Co., LTD.	Pending
3234	2014-99018	JP	Samsung Electronics Co., LTD.	Pending
3235	2014-99019	JP	Samsung Electronics Co., LTD.	Pending
3236	2014-99020	JP	Samsung Electronics Co., LTD.	Pending
3237	2016-137202	JP	Samsung Electronics Co., LTD.	Pending
3238	2016-137203	JP	Samsung Electronics Co., LTD.	Pending
3239	KR 1452860	KR	Samsung Electronics Co., LTD.	Granted
3240	P20150052466	KR	Samsung Electronics Co., LTD.	Pending
3241	MX 319249	MX	Samsung Electronics Co., LTD.	Granted
3242	MX 323386	MX	Samsung Electronics Co., LTD.	Granted
3243	MX 323390	MX	Samsung Electronics Co., LTD.	Granted
3244	MX 323387	MX	Samsung Electronics Co., LTD.	Granted
3245	MX 323391	MX	Samsung Electronics Co., LTD.	Granted
3246	PI2012000238	MY	Samsung Electronics Co., LTD.	Pending
3247	MY 155173-A	MY	Samsung Electronics Co., LTD.	Granted
3248	PI2013003309	MY	Samsung Electronics Co., LTD.	Pending
3249	PI2015001391	MY	Samsung Electronics Co., LTD.	Pending
3250	PI2015001392	MY	Samsung Electronics Co., LTD.	Pending
3251	RU 2513708	RU	Samsung Electronics Co., LTD.	Granted
3252	RU 2514927	RU	Samsung Electronics Co., LTD.	Granted
3253	2014100169	RU	Samsung Electronics Co., LTD.	Pending
3254	2014100181	RU	Samsung Electronics Co., LTD.	Pending
3255	2014100179	RU	Samsung Electronics Co., LTD.	Pending
3256	2014100177	RU	Samsung Electronics Co., LTD.	Pending
3257	US 9313502	US	Samsung Electronics Co., LTD.	Granted
3258	US12/857682	US	Samsung Electronics Co., LTD.	Pending
3259	US 9277224	US	Samsung Electronics Co., LTD.	Granted
3260	US 9319686	US	Samsung Electronics Co., LTD.	Granted
3261	US14/056551	US	Samsung Electronics Co., LTD.	Pending

3262	US 9313503	US	Samsung Electronics Co., LTD.	Granted
3263	US14/056605	US	Samsung Electronics Co., LTD.	Pending
3264	US 9369715	US	Samsung Electronics Co., LTD.	Granted
3265	US14/299226	US	Samsung Electronics Co., LTD.	Pending
3266	VN 1-2012-00416	VN	Samsung Electronics Co., LTD.	Granted
3267	1-2013-00836	VN	Samsung Electronics Co., LTD.	Pending
3268	1-2013-00834	VN	Samsung Electronics Co., LTD.	Pending
3269	1-2015-01875	VN	Samsung Electronics Co., LTD.	Pending
3270	1-2015-01876	VN	Samsung Electronics Co., LTD.	Pending
3271	ZA 2012/01156	ZA	Samsung Electronics Co., LTD.	Granted
3272	ZA 2013/04971	ZA	Samsung Electronics Co., LTD.	Granted
3273	ZA 2013/04972	ZA	Samsung Electronics Co., LTD.	Granted
3274	2015/03434	ZA	Samsung Electronics Co., LTD.	Pending
3275	2015/03355	ZA	Samsung Electronics Co., LTD.	Pending
3276	2640076	AT	Samsung Electronics Co., LTD.	Granted
3277	AT 2712198	AT	Samsung Electronics Co., LTD.	Granted
3278	AT 2713617	AT	Samsung Electronics Co., LTD.	Granted
3279	AT 2713618	AT	Samsung Electronics Co., LTD.	Granted
3280	AT 2712200	AT	Samsung Electronics Co., LTD.	Granted
3281	2640076	BE	Samsung Electronics Co., LTD.	Granted
3282	BE 2712198	BE	Samsung Electronics Co., LTD.	Granted
3283	BE 2713617	BE	Samsung Electronics Co., LTD.	Granted
3284	BE 2713618	BE	Samsung Electronics Co., LTD.	Granted
3285	BE 2712200	BE	Samsung Electronics Co., LTD.	Granted
3286	2640076	BG	Samsung Electronics Co., LTD.	Granted
3287	BG 2712198	BG	Samsung Electronics Co., LTD.	Granted
3288	BG 2713617	BG	Samsung Electronics Co., LTD.	Granted
3289	BG 2713618	BG	Samsung Electronics Co., LTD.	Granted
3290	BG 2712200	BG	Samsung Electronics Co., LTD.	Granted
3291	2640076	CH	Samsung Electronics Co., LTD.	Granted
3292	CH 2712198	CH	Samsung Electronics Co., LTD.	Granted
3293	CH 2713617	CH	Samsung Electronics Co., LTD.	Granted
3294	CH 2713618	CH	Samsung Electronics Co., LTD.	Granted

3295	CH 2712200	CH	Samsung Electronics Co., LTD.	Granted
3296	201310093716.6	CN	Samsung Electronics Co., LTD.	Pending
3297	201410203258.1	CN	Samsung Electronics Co., LTD.	Pending
3298	201410202315.4	CN	Samsung Electronics Co., LTD.	Pending
3299	201410204121.8	CN	Samsung Electronics Co., LTD.	Pending
3300	201410203566.4	CN	Samsung Electronics Co., LTD.	Pending
3301	201410203600.8	CN	Samsung Electronics Co., LTD.	Pending
3302	2640076	CY	Samsung Electronics Co., LTD.	Granted
3303	CY 2712198	CY	Samsung Electronics Co., LTD.	Granted
3304	CY 2713617	CY	Samsung Electronics Co., LTD.	Granted
3305	CY 2713618	CY	Samsung Electronics Co., LTD.	Granted
3306	CY 2712200	CY	Samsung Electronics Co., LTD.	Granted
3307	2640076	CZ	Samsung Electronics Co., LTD.	Granted
3308	CZ 2712198	CZ	Samsung Electronics Co., LTD.	Granted
3309	CZ 2713617	CZ	Samsung Electronics Co., LTD.	Granted
3310	CZ 2713618	CZ	Samsung Electronics Co., LTD.	Granted
3311	CZ 2712200	CZ	Samsung Electronics Co., LTD.	Granted
3312	2640076	DE	Samsung Electronics Co., LTD.	Granted
3313	DE 2712198	DE	Samsung Electronics Co., LTD.	Granted
3314	DE 60 2009 033 875.7	DE	Samsung Electronics Co., LTD.	Granted
3315	DE 2713618	DE	Samsung Electronics Co., LTD.	Granted
3316	DE 60 2009 030 123.3	DE	Samsung Electronics Co., LTD.	Granted
3317	2640076	DK	Samsung Electronics Co., LTD.	Granted
3318	DK 2712198	DK	Samsung Electronics Co., LTD.	Granted
3319	DK 2713617	DK	Samsung Electronics Co., LTD.	Granted
3320	DK 2713618	DK	Samsung Electronics Co., LTD.	Granted
3321	DK 2712200	DK	Samsung Electronics Co., LTD.	Granted
3322	2640076	EE	Samsung Electronics Co., LTD.	Granted
3323	EE 2712198	EE	Samsung Electronics Co., LTD.	Granted
3324	EE 2713617	EE	Samsung Electronics Co., LTD.	Granted
3325	EE 2713618	EE	Samsung Electronics Co., LTD.	Granted
3326	EE 2712200	EE	Samsung Electronics Co., LTD.	Granted
3327	2640076	ES	Samsung Electronics Co., LTD.	Granted

3328	ES 2712198	ES	Samsung Electronics Co., LTD.	Granted
3329	ES 2713617	ES	Samsung Electronics Co., LTD.	Granted
3330	ES 2713618	ES	Samsung Electronics Co., LTD.	Granted
3331	ES 2533333	ES	Samsung Electronics Co., LTD.	Granted
3332	2640076	FI	Samsung Electronics Co., LTD.	Granted
3333	FI 2712198	FI	Samsung Electronics Co., LTD.	Granted
3334	FI 2713617	FI	Samsung Electronics Co., LTD.	Granted
3335	FI 2713618	FI	Samsung Electronics Co., LTD.	Granted
3336	FI 2712200	FI	Samsung Electronics Co., LTD.	Granted
3337	2640076	FR	Samsung Electronics Co., LTD.	Granted
3338	FR 2712198	FR	Samsung Electronics Co., LTD.	Granted
3339	FR 2713617	FR	Samsung Electronics Co., LTD.	Granted
3340	FR 2713618	FR	Samsung Electronics Co., LTD.	Granted
3341	FR 2712200	FR	Samsung Electronics Co., LTD.	Granted
3342	2640076	GB	Samsung Electronics Co., LTD.	Granted
3343	GB 2712198	GB	Samsung Electronics Co., LTD.	Granted
3344	GB 2713617	GB	Samsung Electronics Co., LTD.	Granted
3345	GB 2713618	GB	Samsung Electronics Co., LTD.	Granted
3346	GB 2712200	GB	Samsung Electronics Co., LTD.	Granted
3347	2640076	GR	Samsung Electronics Co., LTD.	Granted
3348	GR 2712198	GR	Samsung Electronics Co., LTD.	Granted
3349	GR 2713617	GR	Samsung Electronics Co., LTD.	Granted
3350	GR 2713618	GR	Samsung Electronics Co., LTD.	Granted
3351	GR 2712200	GR	Samsung Electronics Co., LTD.	Granted
3352	2640076	HR	Samsung Electronics Co., LTD.	Granted
3353	HR 2712198	HR	Samsung Electronics Co., LTD.	Granted
3354	HR 2713617	HR	Samsung Electronics Co., LTD.	Granted
3355	HR 2713618	HR	Samsung Electronics Co., LTD.	Granted
3356	HR 2712200	HR	Samsung Electronics Co., LTD.	Granted
3357	2640076	HU	Samsung Electronics Co., LTD.	Granted
3358	HU 2712198	HU	Samsung Electronics Co., LTD.	Granted
3359	HU 2713617	HU	Samsung Electronics Co., LTD.	Granted
3360	HU 2713618	HU	Samsung Electronics Co., LTD.	Granted

3361	HU 2712200	HU	Samsung Electronics Co., LTD.	Granted
3362	2640076	IE	Samsung Electronics Co., LTD.	Granted
3363	IE 2712198	IE	Samsung Electronics Co., LTD.	Granted
3364	IE 2713617	IE	Samsung Electronics Co., LTD.	Granted
3365	IE 2713618	IE	Samsung Electronics Co., LTD.	Granted
3366	IE 2712200	IE	Samsung Electronics Co., LTD.	Granted
3367	2640076	IS	Samsung Electronics Co., LTD.	Granted
3368	IS 2712198	IS	Samsung Electronics Co., LTD.	Granted
3369	IS 2713617	IS	Samsung Electronics Co., LTD.	Granted
3370	IS 2713618	IS	Samsung Electronics Co., LTD.	Granted
3371	IS 2712200	IS	Samsung Electronics Co., LTD.	Granted
3372	2640076	IT	Samsung Electronics Co., LTD.	Granted
3373	IT 2712198	IT	Samsung Electronics Co., LTD.	Granted
3374	IT 2713617	IT	Samsung Electronics Co., LTD.	Granted
3375	IT 2713618	IT	Samsung Electronics Co., LTD.	Granted
3376	IT 2712200	IT	Samsung Electronics Co., LTD.	Granted
3377	KR 1464538	KR	Samsung Electronics Co., LTD.	Granted
3378	P20150086152	KR	Samsung Electronics Co., LTD.	Pending
3379	2640076	LI	Samsung Electronics Co., LTD.	Granted
3380	LI 2712198	LI	Samsung Electronics Co., LTD.	Granted
3381	LI 2713617	LI	Samsung Electronics Co., LTD.	Granted
3382	LI 2713618	LI	Samsung Electronics Co., LTD.	Granted
3383	LI 2712200	LI	Samsung Electronics Co., LTD.	Granted
3384	2640076	LT	Samsung Electronics Co., LTD.	Granted
3385	LT 2712198	LT	Samsung Electronics Co., LTD.	Granted
3386	LT 2713617	LT	Samsung Electronics Co., LTD.	Granted
3387	LT 2713618	LT	Samsung Electronics Co., LTD.	Granted
3388	LT 2712200	LT	Samsung Electronics Co., LTD.	Granted
3389	2640076	LU	Samsung Electronics Co., LTD.	Granted
3390	LU 2712198	LU	Samsung Electronics Co., LTD.	Granted
3391	LU 2713617	LU	Samsung Electronics Co., LTD.	Granted
3392	LU 2713618	LU	Samsung Electronics Co., LTD.	Granted
3393	LU 2712200	LU	Samsung Electronics Co., LTD.	Granted

3394	2640076	LV	Samsung Electronics Co., LTD.	Granted
3395	LV 2712198	LV	Samsung Electronics Co., LTD.	Granted
3396	LV 2713617	LV	Samsung Electronics Co., LTD.	Granted
3397	LV 2713618	LV	Samsung Electronics Co., LTD.	Granted
3398	LV 2712200	LV	Samsung Electronics Co., LTD.	Granted
3399	2640076	MC	Samsung Electronics Co., LTD.	Granted
3400	MC 2712198	MC	Samsung Electronics Co., LTD.	Granted
3401	MC 2713617	MC	Samsung Electronics Co., LTD.	Granted
3402	MC 2713618	MC	Samsung Electronics Co., LTD.	Granted
3403	MC 2712200	MC	Samsung Electronics Co., LTD.	Granted
3404	2640076	MK	Samsung Electronics Co., LTD.	Granted
3405	MK 2712198	MK	Samsung Electronics Co., LTD.	Granted
3406	MK 2713617	MK	Samsung Electronics Co., LTD.	Granted
3407	MK 2713618	MK	Samsung Electronics Co., LTD.	Granted
3408	MK 2712200	MK	Samsung Electronics Co., LTD.	Granted
3409	2640076	MT	Samsung Electronics Co., LTD.	Granted
3410	MT 2712198	MT	Samsung Electronics Co., LTD.	Granted
3411	MT 2713617	MT	Samsung Electronics Co., LTD.	Granted
3412	MT 2713618	MT	Samsung Electronics Co., LTD.	Granted
3413	MT 2712200	MT	Samsung Electronics Co., LTD.	Granted
3414	2640076	NL	Samsung Electronics Co., LTD.	Granted
3415	NL 2712198	NL	Samsung Electronics Co., LTD.	Granted
3416	NL 2713617	NL	Samsung Electronics Co., LTD.	Granted
3417	NL 2713618	NL	Samsung Electronics Co., LTD.	Granted
3418	NL 2712200	NL	Samsung Electronics Co., LTD.	Granted
3419	2640076	NO	Samsung Electronics Co., LTD.	Granted
3420	NO 2712198	NO	Samsung Electronics Co., LTD.	Granted
3421	NO 2713617	NO	Samsung Electronics Co., LTD.	Granted
3422	NO 2713618	NO	Samsung Electronics Co., LTD.	Granted
3423	NO 2712200	NO	Samsung Electronics Co., LTD.	Granted
3424	2640076	PL	Samsung Electronics Co., LTD.	Granted
3425	PL 2712198	PL	Samsung Electronics Co., LTD.	Granted
3426	PL 2713617	PL	Samsung Electronics Co., LTD.	Granted

3427	PL 2713618	PL	Samsung Electronics Co., LTD.	Granted
3428	PL 2712200	PL	Samsung Electronics Co., LTD.	Granted
3429	2640076	PT	Samsung Electronics Co., LTD.	Granted
3430	PT 2712198	PT	Samsung Electronics Co., LTD.	Granted
3431	PT 2713617	PT	Samsung Electronics Co., LTD.	Granted
3432	PT 2713618	PT	Samsung Electronics Co., LTD.	Granted
3433	PT 2712200	PT	Samsung Electronics Co., LTD.	Granted
3434	2640076	RO	Samsung Electronics Co., LTD.	Granted
3435	RO 2712198	RO	Samsung Electronics Co., LTD.	Granted
3436	RO 2713617	RO	Samsung Electronics Co., LTD.	Granted
3437	RO 2713618	RO	Samsung Electronics Co., LTD.	Granted
3438	RO 2712200	RO	Samsung Electronics Co., LTD.	Granted
3439	2640076	SE	Samsung Electronics Co., LTD.	Granted
3440	SE 2712198	SE	Samsung Electronics Co., LTD.	Granted
3441	SE 2713617	SE	Samsung Electronics Co., LTD.	Granted
3442	SE 2713618	SE	Samsung Electronics Co., LTD.	Granted
3443	SE 2712200	SE	Samsung Electronics Co., LTD.	Granted
3444	2640076	SI	Samsung Electronics Co., LTD.	Granted
3445	SI 2712198	SI	Samsung Electronics Co., LTD.	Granted
3446	SI 2713617	SI	Samsung Electronics Co., LTD.	Granted
3447	SI 2713618	SI	Samsung Electronics Co., LTD.	Granted
3448	SI 2712200	SI	Samsung Electronics Co., LTD.	Granted
3449	2640076	SK	Samsung Electronics Co., LTD.	Granted
3450	SK 2712198	SK	Samsung Electronics Co., LTD.	Granted
3451	SK 2713617	SK	Samsung Electronics Co., LTD.	Granted
3452	SK 2713618	SK	Samsung Electronics Co., LTD.	Granted
3453	SK 2712200	SK	Samsung Electronics Co., LTD.	Granted
3454	2640076	SM	Samsung Electronics Co., LTD.	Granted
3455	SM 2712198	SM	Samsung Electronics Co., LTD.	Granted
3456	SM 2713617	SM	Samsung Electronics Co., LTD.	Granted
3457	SM 2713618	SM	Samsung Electronics Co., LTD.	Granted
3458	SM 2712200	SM	Samsung Electronics Co., LTD.	Granted
3459	2640076	TR	Samsung Electronics Co., LTD.	Granted

3460	TR 2712198	TR	Samsung Electronics Co., LTD.	Granted
3461	TR 2713617	TR	Samsung Electronics Co., LTD.	Granted
3462	TR 2713618	TR	Samsung Electronics Co., LTD.	Granted
3463	TR 2712200	TR	Samsung Electronics Co., LTD.	Granted
3464	US13/002398	US	Samsung Electronics Co., LTD.	Pending
3465	US 8879626	US	Samsung Electronics Co., LTD.	Granted
3466	US 8824549	US	Samsung Electronics Co., LTD.	Granted
3467	US 8902979	US	Samsung Electronics Co., LTD.	Granted
3468	US 8837590	US	Samsung Electronics Co., LTD.	Granted
3469	US 9118913	US	Samsung Electronics Co., LTD.	Granted
3470	CN ZL201080034035.7	CN	Samsung Electronics Co., LTD.	Granted
3471	201410841178.9	CN	Samsung Electronics Co., LTD.	Pending
3472	201410840948.8	CN	Samsung Electronics Co., LTD.	Pending
3473	CN ZL201410843880.9	CN	Samsung Electronics Co., LTD.	Granted
3474	201410840826.9	CN	Samsung Electronics Co., LTD.	Pending
3475	201410841108.3	CN	Samsung Electronics Co., LTD.	Pending
3476	201410841773.2	CN	Samsung Electronics Co., LTD.	Pending
3477	10802493.6	EP	Samsung Electronics Co., LTD.	Pending
3478	15161952.5	EP	Samsung Electronics Co., LTD.	Pending
3479	15161956.6	EP	Samsung Electronics Co., LTD.	Pending
3480	15161957.4	EP	Samsung Electronics Co., LTD.	Pending
3481	15161960.8	EP	Samsung Electronics Co., LTD.	Pending
3482	KR 1483750	KR	Samsung Electronics Co., LTD.	Granted
3483	P20150006116	KR	Samsung Electronics Co., LTD.	Pending
3484	US8768081	US	Samsung Electronics Co., LTD.	Granted
3485	US 8885958	US	Samsung Electronics Co., LTD.	Granted
3486	US 9131231	US	Samsung Electronics Co., LTD.	Granted
3487	US 9137534	US	Samsung Electronics Co., LTD.	Granted
3488	US 9131232	US	Samsung Electronics Co., LTD.	Granted
3489	US14/802849	US	Samsung Electronics Co., LTD.	Pending
3490	BR1120120032453	BR	Samsung Electronics Co., LTD.	Pending
3491	BR1220150138868	BR	Samsung Electronics Co., LTD.	Pending
3492	BR1220150138884	BR	Samsung Electronics Co., LTD.	Pending

3493	BR1220150138930	BR	Samsung Electronics Co., LTD.	Pending
3494	BR1220150138817	BR	Samsung Electronics Co., LTD.	Pending
3495	2768691	CA	Samsung Electronics Co., LTD.	Pending
3496	2889729	CA	Samsung Electronics Co., LTD.	Pending
3497	2889737	CA	Samsung Electronics Co., LTD.	Pending
3498	10808398.1	EP	Samsung Electronics Co., LTD.	Pending
3499	15166147.7	EP	Samsung Electronics Co., LTD.	Pending
3500	15166148.5	EP	Samsung Electronics Co., LTD.	Pending
3501	530/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3502	1223/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3503	1224/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3504	1225/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3505	1226/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3506	2015-97948	JP	Samsung Electronics Co., LTD.	Pending
3507	P20160058783	KR	Samsung Electronics Co., LTD.	Pending
3508	P20160058785	KR	Samsung Electronics Co., LTD.	Pending
3509	2014105279	RU	Samsung Electronics Co., LTD.	Pending
3510	2014105280	RU	Samsung Electronics Co., LTD.	Pending
3511	2014105195	RU	Samsung Electronics Co., LTD.	Pending
3512	2014105194	RU	Samsung Electronics Co., LTD.	Pending
3513	2014105190	RU	Samsung Electronics Co., LTD.	Pending
3514	2014105189	RU	Samsung Electronics Co., LTD.	Pending
3515	US 9148665	US	Samsung Electronics Co., LTD.	Granted
3516	US14/177272	US	Samsung Electronics Co., LTD.	Pending
3517	US14/177267	US	Samsung Electronics Co., LTD.	Pending
3518	US14/177074	US	Samsung Electronics Co., LTD.	Pending
3519	US14/177280	US	Samsung Electronics Co., LTD.	Pending
3520	US14/177292	US	Samsung Electronics Co., LTD.	Pending
3521	US14/177286	US	Samsung Electronics Co., LTD.	Pending
3522	US14/719629	US	Samsung Electronics Co., LTD.	Pending
3523	US14/719872	US	Samsung Electronics Co., LTD.	Pending
3524	US14/719689	US	Samsung Electronics Co., LTD.	Pending
3525	US14/720001	US	Samsung Electronics Co., LTD.	Pending

3526	BR1120120022440	BR	Samsung Electronics Co., LTD.	Pending
3527	CA 2768693	CA	Samsung Electronics Co., LTD.	Granted
3528	CA 2857833	CA	Samsung Electronics Co., LTD.	Granted
3529	2894589	CA	Samsung Electronics Co., LTD.	Pending
3530	2896017	CA	Samsung Electronics Co., LTD.	Pending
3531	2896087	CA	Samsung Electronics Co., LTD.	Pending
3532	201510002361.4	CN	Samsung Electronics Co., LTD.	Pending
3533	201510170531.X	CN	Samsung Electronics Co., LTD.	Pending
3534	201510171193.1	CN	Samsung Electronics Co., LTD.	Pending
3535	201510169455.0	CN	Samsung Electronics Co., LTD.	Pending
3536	10808402.1	EP	Samsung Electronics Co., LTD.	Pending
3537	15168669.8	EP	Samsung Electronics Co., LTD.	Pending
3538	15168651.6	EP	Samsung Electronics Co., LTD.	Pending
3539	15168652.4	EP	Samsung Electronics Co., LTD.	Pending
3540	15168653.2	EP	Samsung Electronics Co., LTD.	Pending
3541	584/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3542	1237/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3543	1238//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3544	1239//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3545	1240//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3546	1241//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3547	JP 5746170	JP	Samsung Electronics Co., LTD.	Granted
3548	JP 5778367	JP	Samsung Electronics Co., LTD.	Granted
3549	JP 5778368	JP	Samsung Electronics Co., LTD.	Granted
3550	KR 1456498	KR	Samsung Electronics Co., LTD.	Granted
3551	P20150094926	KR	Samsung Electronics Co., LTD.	Pending
3552	MX 315662	MX	Samsung Electronics Co., LTD.	Granted
3553	MX 322910	MX	Samsung Electronics Co., LTD.	Granted
3554	MX 323151	MX	Samsung Electronics Co., LTD.	Granted
3555	MX 324108	MX	Samsung Electronics Co., LTD.	Granted
3556	MX 320435	MX	Samsung Electronics Co., LTD.	Granted
3557	RU 2526861	RU	Samsung Electronics Co., LTD.	Granted
3558	2013139143	RU	Samsung Electronics Co., LTD.	Pending

3559	2013139146	RU	Samsung Electronics Co., LTD.	Pending
3560	2014108445	RU	Samsung Electronics Co., LTD.	Pending
3561	2014108444	RU	Samsung Electronics Co., LTD.	Pending
3562	US 8824551	US	Samsung Electronics Co., LTD.	Granted
3563	US 8831097	US	Samsung Electronics Co., LTD.	Granted
3564	US 8831098	US	Samsung Electronics Co., LTD.	Granted
3565	US8817877	US	Samsung Electronics Co., LTD.	Granted
3566	US 8897363	US	Samsung Electronics Co., LTD.	Granted
3567	AU 2010285492	AU	Samsung Electronics Co., LTD.	Granted
3568	AU 2013202078	AU	Samsung Electronics Co., LTD.	Granted
3569	AU 2015202119	AU	Samsung Electronics Co., LTD.	Granted
3570	AU 2015202118	AU	Samsung Electronics Co., LTD.	Granted
3571	BR1120120016873	BR	Samsung Electronics Co., LTD.	Pending
3572	1220130197230	BR	Samsung Electronics Co., LTD.	Pending
3573	BR1220150217440	BR	Samsung Electronics Co., LTD.	Pending
3574	BR1220150217474	BR	Samsung Electronics Co., LTD.	Pending
3575	BR1220150217458	BR	Samsung Electronics Co., LTD.	Pending
3576	2768694	CA	Samsung Electronics Co., LTD.	Pending
3577	CA 2823885	CA	Samsung Electronics Co., LTD.	Granted
3578	2888489	CA	Samsung Electronics Co., LTD.	Pending
3579	2888490	CA	Samsung Electronics Co., LTD.	Pending
3580	2888495	CA	Samsung Electronics Co., LTD.	Pending
3581	CN ZL201080036788.1	CN	Samsung Electronics Co., LTD.	Granted
3582	201310088381.9	CN	Samsung Electronics Co., LTD.	Pending
3583	201510193955.8	CN	Samsung Electronics Co., LTD.	Pending
3584	201510193915.3	CN	Samsung Electronics Co., LTD.	Pending
3585	201510192248.7	CN	Samsung Electronics Co., LTD.	Pending
3586	201510193969.X	CN	Samsung Electronics Co., LTD.	Pending
3587	10810147.8	EP	Samsung Electronics Co., LTD.	Pending
3588	13185302.0	EP	Samsung Electronics Co., LTD.	Pending
3589	15163267.6	EP	Samsung Electronics Co., LTD.	Pending
3590	15163275.9	EP	Samsung Electronics Co., LTD.	Pending
3591	15163276.7	EP	Samsung Electronics Co., LTD.	Pending

3592	W-00201200065	ID	Samsung Electronics Co., LTD.	Pending
3593	ID P000039172	ID	Samsung Electronics Co., LTD.	Granted
3594	P-00201404015	ID	Samsung Electronics Co., LTD.	Pending
3595	P-00201404014	ID	Samsung Electronics Co., LTD.	Pending
3596	P-00201500383	ID	Samsung Electronics Co., LTD.	Pending
3597	P-00201500385	ID	Samsung Electronics Co., LTD.	Pending
3598	528/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3599	679/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3600	1078/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3601	1077/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3602	1076/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3603	JP 5650742	JP	Samsung Electronics Co., LTD.	Granted
3604	JP 5620554	JP	Samsung Electronics Co., LTD.	Granted
3605	KR 1510108	KR	Samsung Electronics Co., LTD.	Granted
3606	MX 320458	MX	Samsung Electronics Co., LTD.	Granted
3607	PI2012000404	MY	Samsung Electronics Co., LTD.	Pending
3608	PI 2014001381	MY	Samsung Electronics Co., LTD.	Pending
3609	PI2014001539	MY	Samsung Electronics Co., LTD.	Pending
3610	PI2014001541	MY	Samsung Electronics Co., LTD.	Pending
3611	PI2015000869	MY	Samsung Electronics Co., LTD.	Pending
3612	RU 2517193	RU	Samsung Electronics Co., LTD.	Granted
3613	RU 2517293	RU	Samsung Electronics Co., LTD.	Granted
3614	RU 2546619	RU	Samsung Electronics Co., LTD.	Granted
3615	2014122343	RU	Samsung Electronics Co., LTD.	Pending
3616	2015101791	RU	Samsung Electronics Co., LTD.	Pending
3617	2015101795	RU	Samsung Electronics Co., LTD.	Pending
3618	2015129684	RU	Samsung Electronics Co., LTD.	Pending
3619	US 8989266	US	Samsung Electronics Co., LTD.	Granted
3620	US8787458	US	Samsung Electronics Co., LTD.	Granted
3621	US 9036703	US	Samsung Electronics Co., LTD.	Granted
3622	US 9071839	US	Samsung Electronics Co., LTD.	Granted
3623	US 9049458	US	Samsung Electronics Co., LTD.	Granted
3624	1/2012/00127	VN	Samsung Electronics Co., LTD.	Pending

3625	1-2013-00749	VN	Samsung Electronics Co., LTD.	Pending
3626	1-2014-01750	VN	Samsung Electronics Co., LTD.	Pending
3627	1-2014-01749	VN	Samsung Electronics Co., LTD.	Pending
3628	1-2015-02521	VN	Samsung Electronics Co., LTD.	Pending
3629	ZA 2012/01153	ZA	Samsung Electronics Co., LTD.	Granted
3630	ZA 2013/04970	ZA	Samsung Electronics Co., LTD.	Granted
3631	ZA 2014/05219	ZA	Samsung Electronics Co., LTD.	Granted
3632	2014/05219	ZA	Samsung Electronics Co., LTD.	Pending
3633	ZA 2014/05220	ZA	Samsung Electronics Co., LTD.	Granted
3634	2014/05220	ZA	Samsung Electronics Co., LTD.	Pending
3635	2015/03353	ZA	Samsung Electronics Co., LTD.	Pending
3636	2015/03354	ZA	Samsung Electronics Co., LTD.	Pending
3637	AU 2010283113	AU	Samsung Electronics Co., LTD.	Granted
3638	AU 2013201911	AU	Samsung Electronics Co., LTD.	Granted
3639	AU 2013201883	AU	Samsung Electronics Co., LTD.	Granted
3640	BR1120120017578	BR	Samsung Electronics Co., LTD.	Pending
3641	1220130197249	BR	Samsung Electronics Co., LTD.	Pending
3642	1220130197257	BR	Samsung Electronics Co., LTD.	Pending
3643	CA 2768181	CA	Samsung Electronics Co., LTD.	Granted
3644	CA 2815893	CA	Samsung Electronics Co., LTD.	Granted
3645	CA 2815777	CA	Samsung Electronics Co., LTD.	Granted
3646	2877241	CA	Samsung Electronics Co., LTD.	Pending
3647	CA 2877255	CA	Samsung Electronics Co., LTD.	Granted
3648	CN ZL201080036020.4	CN	Samsung Electronics Co., LTD.	Granted
3649	201310092700.3	CN	Samsung Electronics Co., LTD.	Pending
3650	201310097476.7	CN	Samsung Electronics Co., LTD.	Pending
3651	CN ZL201510005662.2	CN	Samsung Electronics Co., LTD.	Granted
3652	201510006252.X	CN	Samsung Electronics Co., LTD.	Pending
3653	CN ZL201510005604.X	CN	Samsung Electronics Co., LTD.	Granted
3654	10808383.3	EP	Samsung Electronics Co., LTD.	Pending
3655	13167743.7	EP	Samsung Electronics Co., LTD.	Pending
3656	13167744.5	EP	Samsung Electronics Co., LTD.	Pending
3657	15150191.3	EP	Samsung Electronics Co., LTD.	Pending

3658	15150192.1	EP	Samsung Electronics Co., LTD.	Pending
3659	W-00201200954	ID	Samsung Electronics Co., LTD.	Pending
3660	W-00201302175	ID	Samsung Electronics Co., LTD.	Pending
3661	ID P000039998	ID	Samsung Electronics Co., LTD.	Granted
3662	W-00201304145	ID	Samsung Electronics Co., LTD.	Pending
3663	P-00201500449	ID	Samsung Electronics Co., LTD.	Pending
3664	P-00201500448	ID	Samsung Electronics Co., LTD.	Pending
3665	585/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3666	939/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3667	940/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3668	400/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3669	401/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3670	402/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3671	JP 5746169	JP	Samsung Electronics Co., LTD.	Granted
3672	JP 5753327	JP	Samsung Electronics Co., LTD.	Granted
3673	JP 5753328	JP	Samsung Electronics Co., LTD.	Granted
3674	2015-095215	JP	Samsung Electronics Co., LTD.	Pending
3675	2015-095216	JP	Samsung Electronics Co., LTD.	Pending
3676	KR 1474756	KR	Samsung Electronics Co., LTD.	Granted
3677	P20160078117	KR	Samsung Electronics Co., LTD.	Pending
3678	MX 315664	MX	Samsung Electronics Co., LTD.	Granted
3679	MX 322644	MX	Samsung Electronics Co., LTD.	Granted
3680	MX 320217	MX	Samsung Electronics Co., LTD.	Granted
3681	MX 320207	MX	Samsung Electronics Co., LTD.	Granted
3682	MX 328501	MX	Samsung Electronics Co., LTD.	Granted
3683	MY 153787A	MY	Samsung Electronics Co., LTD.	Granted
3684	RU 2543519	RU	Samsung Electronics Co., LTD.	Granted
3685	RU 2510945	RU	Samsung Electronics Co., LTD.	Granted
3686	RU 2514777	RU	Samsung Electronics Co., LTD.	Granted
3687	RU 2551794	RU	Samsung Electronics Co., LTD.	Granted
3688	US8792741	US	Samsung Electronics Co., LTD.	Granted
3689	US 8842921	US	Samsung Electronics Co., LTD.	Granted
3690	US 8792737	US	Samsung Electronics Co., LTD.	Granted

3691	US 8971650	US	Samsung Electronics Co., LTD.	Granted
3692	1-2012-00620	VN	Samsung Electronics Co., LTD.	Pending
3693	1-2013-00799	VN	Samsung Electronics Co., LTD.	Pending
3694	1-2013-00800	VN	Samsung Electronics Co., LTD.	Pending
3695	1-2015-00046	VN	Samsung Electronics Co., LTD.	Pending
3696	1-2015-00045	VN	Samsung Electronics Co., LTD.	Pending
3697	2012/01157	ZA	Samsung Electronics Co., LTD.	Pending
3698	ZA 2013/04973	ZA	Samsung Electronics Co., LTD.	Granted
3699	2013/04974	ZA	Samsung Electronics Co., LTD.	Pending
3700	2015/02023	ZA	Samsung Electronics Co., LTD.	Pending
3701	2015/02025	ZA	Samsung Electronics Co., LTD.	Pending
3702	AU 2010313967	AU	Samsung Electronics Co., LTD.	Granted
3703	2015201330	AU	Samsung Electronics Co., LTD.	Pending
3704	2015201329	AU	Samsung Electronics Co., LTD.	Pending
3705	1120120097229	BR	Samsung Electronics Co., LTD.	Pending
3706	2777587	CA	Samsung Electronics Co., LTD.	Pending
3707	2883978	CA	Samsung Electronics Co., LTD.	Pending
3708	2883923	CA	Samsung Electronics Co., LTD.	Pending
3709	2883913	CA	Samsung Electronics Co., LTD.	Pending
3710	2883920	CA	Samsung Electronics Co., LTD.	Pending
3711	CN ZL201080049289.6	CN	Samsung Electronics Co., LTD.	Granted
3712	201510148781.3	CN	Samsung Electronics Co., LTD.	Pending
3713	201510150297.4	CN	Samsung Electronics Co., LTD.	Pending
3714	201510149521.8	CN	Samsung Electronics Co., LTD.	Pending
3715	201510149195.0	CN	Samsung Electronics Co., LTD.	Pending
3716	201510149594.7	CN	Samsung Electronics Co., LTD.	Pending
3717	10827104.0	EP	Samsung Electronics Co., LTD.	Pending
3718	15158640.1	EP	Samsung Electronics Co., LTD.	Pending
3719	15158612.0	EP	Samsung Electronics Co., LTD.	Pending
3720	15158613.8	EP	Samsung Electronics Co., LTD.	Pending
3721	15158614.6	EP	Samsung Electronics Co., LTD.	Pending
3722	W-00201202066	ID	Samsung Electronics Co., LTD.	Pending
3723	P00201501864	ID	Samsung Electronics Co., LTD.	Pending

3724	P00201501866	ID	Samsung Electronics Co., LTD.	Pending
3725	P00201501867	ID	Samsung Electronics Co., LTD.	Pending
3726	P00201501868	ID	Samsung Electronics Co., LTD.	Pending
3727	1264/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3728	742/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3729	745/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3730	741/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3731	740/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3732	JP 5711247	JP	Samsung Electronics Co., LTD.	Granted
3733	KR 1457894	KR	Samsung Electronics Co., LTD.	Granted
3734	P20160063729	KR	Samsung Electronics Co., LTD.	Pending
3735	MX 323424	MX	Samsung Electronics Co., LTD.	Granted
3736	PI2012001789	MY	Samsung Electronics Co., LTD.	Pending
3737	PI2015000598	MY	Samsung Electronics Co., LTD.	Pending
3738	PI2015000597	MY	Samsung Electronics Co., LTD.	Pending
3739	PI2015000596	MY	Samsung Electronics Co., LTD.	Pending
3740	PI2015000595	MY	Samsung Electronics Co., LTD.	Pending
3741	RU 2493669	RU	Samsung Electronics Co., LTD.	Granted
3742	2015108338	RU	Samsung Electronics Co., LTD.	Pending
3743	2015108351	RU	Samsung Electronics Co., LTD.	Pending
3744	2015108352	RU	Samsung Electronics Co., LTD.	Pending
3745	US8811479	US	Samsung Electronics Co., LTD.	Granted
3746	US14/323424	US	Samsung Electronics Co., LTD.	Pending
3747	US14/619299	US	Samsung Electronics Co., LTD.	Pending
3748	US14/619323	US	Samsung Electronics Co., LTD.	Pending
3749	US14/619187	US	Samsung Electronics Co., LTD.	Pending
3750	US14/619160	US	Samsung Electronics Co., LTD.	Pending
3751	1-2012-01480	VN	Samsung Electronics Co., LTD.	Pending
3752	1-2015-00827	VN	Samsung Electronics Co., LTD.	Pending
3753	1-2015-00825	VN	Samsung Electronics Co., LTD.	Pending
3754	1-2015-00826	VN	Samsung Electronics Co., LTD.	Pending
3755	1-2015-00824	VN	Samsung Electronics Co., LTD.	Pending
3756	2015/04997	ZA	Samsung Electronics Co., LTD.	Pending

3757	2015/04998	ZA	Samsung Electronics Co., LTD.	Pending
3758	2015/04999	ZA	Samsung Electronics Co., LTD.	Pending
3759	2015/05000	ZA	Samsung Electronics Co., LTD.	Pending
3760	AU 2010313997	AU	Samsung Electronics Co., LTD.	Granted
3761	AU 2013201912	AU	Samsung Electronics Co., LTD.	Granted
3762	AU 2013201913	AU	Samsung Electronics Co., LTD.	Granted
3763	AU 2014203052	AU	Samsung Electronics Co., LTD.	Granted
3764	112012009766-0	BR	Samsung Electronics Co., LTD.	Pending
3765	1220130205527	BR	Samsung Electronics Co., LTD.	Pending
3766	1220130205535	BR	Samsung Electronics Co., LTD.	Pending
3767	BR1220150240042	BR	Samsung Electronics Co., LTD.	Pending
3768	BR1220150240026	BR	Samsung Electronics Co., LTD.	Pending
3769	CA 2778534	CA	Samsung Electronics Co., LTD.	Granted
3770	CA 2818572	CA	Samsung Electronics Co., LTD.	Granted
3771	CA 2818587	CA	Samsung Electronics Co., LTD.	Granted
3772	CA 2888396	CA	Samsung Electronics Co., LTD.	Granted
3773	CN ZL201080049482.X	CN	Samsung Electronics Co., LTD.	Granted
3774	CN ZL201310088343.3	CN	Samsung Electronics Co., LTD.	Granted
3775	201310092751.6	CN	Samsung Electronics Co., LTD.	Pending
3776	CN ZL201510005386.X	CN	Samsung Electronics Co., LTD.	Granted
3777	CN ZL201510006815.5	CN	Samsung Electronics Co., LTD.	Granted
3778	201510053831.X	CN	Samsung Electronics Co., LTD.	Pending
3779	201510161725.3	CN	Samsung Electronics Co., LTD.	Pending
3780	201510161073.3	CN	Samsung Electronics Co., LTD.	Pending
3781	10827134.7	EP	Samsung Electronics Co., LTD.	Pending
3782	13167711.4	EP	Samsung Electronics Co., LTD.	Pending
3783	13167729.6	EP	Samsung Electronics Co., LTD.	Pending
3784	14157333.7	EP	Samsung Electronics Co., LTD.	Pending
3785	14157338.6	EP	Samsung Electronics Co., LTD.	Pending
3786	14157340.2	EP	Samsung Electronics Co., LTD.	Pending
3787	14157343.6	EP	Samsung Electronics Co., LTD.	Pending
3788	16163927.3	EP	Samsung Electronics Co., LTD.	Pending
3789	W-00201202112	ID	Samsung Electronics Co., LTD.	Pending

3790	W-00201301944	ID	Samsung Electronics Co., LTD.	Pending
3791	W-00201301945	ID	Samsung Electronics Co., LTD.	Pending
3792	P00201502615	ID	Samsung Electronics Co., LTD.	Pending
3793	P00201502609	ID	Samsung Electronics Co., LTD.	Pending
3794	P-00201506298	ID	Samsung Electronics Co., LTD.	Pending
3795	4651/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
3796	2362/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
3797	2361/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
3798	2193/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3799	2191/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3800	2192/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
3801	JP 5711248	JP	Samsung Electronics Co., LTD.	Granted
3802	JP 5687310	JP	Samsung Electronics Co., LTD.	Granted
3803	JP 5639687	JP	Samsung Electronics Co., LTD.	Granted
3804	JP 5727114	JP	Samsung Electronics Co., LTD.	Granted
3805	JP 5727115	JP	Samsung Electronics Co., LTD.	Granted
3806	KR 1452713	KR	Samsung Electronics Co., LTD.	Granted
3807	P20140148721	KR	Samsung Electronics Co., LTD.	Pending
3808	MX 319564	MX	Samsung Electronics Co., LTD.	Granted
3809	MX 319562	MX	Samsung Electronics Co., LTD.	Granted
3810	MX 319560	MX	Samsung Electronics Co., LTD.	Granted
3811	MX 319559	MX	Samsung Electronics Co., LTD.	Granted
3812	MX 319561	MX	Samsung Electronics Co., LTD.	Granted
3813	MX 323296	MX	Samsung Electronics Co., LTD.	Granted
3814	PI2012001841	MY	Samsung Electronics Co., LTD.	Pending
3815	PI2013003184	MY	Samsung Electronics Co., LTD.	Pending
3816	PI2013003183	MY	Samsung Electronics Co., LTD.	Pending
3817	PI2015001487	MY	Samsung Electronics Co., LTD.	Pending
3818	PI2015001486	MY	Samsung Electronics Co., LTD.	Pending
3819	PI2015002232	MY	Samsung Electronics Co., LTD.	Pending
3820	2490815	RU	Samsung Electronics Co., LTD.	Granted
3821	2509436	RU	Samsung Electronics Co., LTD.	Granted
3822	2518635	RU	Samsung Electronics Co., LTD.	Granted

3823	2013119372	RU	Samsung Electronics Co., LTD.	Pending
3824	2013119400	RU	Samsung Electronics Co., LTD.	Pending
3825	2013119397	RU	Samsung Electronics Co., LTD.	Pending
3826	2013152955	RU	Samsung Electronics Co., LTD.	Pending
3827	US 8837840	US	Samsung Electronics Co., LTD.	Granted
3828	US8208742	US	Samsung Electronics Co., LTD.	Granted
3829	US 8582901	US	Samsung Electronics Co., LTD.	Granted
3830	US 8842926	US	Samsung Electronics Co., LTD.	Granted
3831	US 8842922	US	Samsung Electronics Co., LTD.	Granted
3832	1-2012-01514	VN	Samsung Electronics Co., LTD.	Pending
3833	1-2013-00797	VN	Samsung Electronics Co., LTD.	Pending
3834	1-2013-00798	VN	Samsung Electronics Co., LTD.	Pending
3835	1-2015-01392	VN	Samsung Electronics Co., LTD.	Pending
3836	1-2015-01393	VN	Samsung Electronics Co., LTD.	Pending
3837	1-2015-02743	VN	Samsung Electronics Co., LTD.	Pending
3838	ZA 2012/02670	ZA	Samsung Electronics Co., LTD.	Granted
3839	2013/04978	ZA	Samsung Electronics Co., LTD.	Granted
3840	2013/04979	ZA	Samsung Electronics Co., LTD.	Granted
3841	ZA 2014/06113	ZA	Samsung Electronics Co., LTD.	Granted
3842	ZA 2015/00338	ZA	Samsung Electronics Co., LTD.	Granted
3843	ZA 2015/00339	ZA	Samsung Electronics Co., LTD.	Granted
3844	AL 2629528	AL	Samsung Electronics Co., LTD.	Granted
3845	AT 2629528	AT	Samsung Electronics Co., LTD.	Granted
3846	AU 2010328813	AU	Samsung Electronics Co., LTD.	Granted
3847	AU 2013201503	AU	Samsung Electronics Co., LTD.	Granted
3848	AU 2013201504	AU	Samsung Electronics Co., LTD.	Granted
3849	BE 2629528	BE	Samsung Electronics Co., LTD.	Granted
3850	BG 2629528	BG	Samsung Electronics Co., LTD.	Granted
3851	11 2012 013871 5	BR	Samsung Electronics Co., LTD.	Pending
3852	1220130199535	BR	Samsung Electronics Co., LTD.	Pending
3853	1220130199527	BR	Samsung Electronics Co., LTD.	Pending
3854	2783786	CA	Samsung Electronics Co., LTD.	Pending
3855	2816467	CA	Samsung Electronics Co., LTD.	Pending

3856	CA 2876814	CA	Samsung Electronics Co., LTD.	Granted
3857	CH 2629528	CH	Samsung Electronics Co., LTD.	Granted
3858	CN 201080063102.8	CN	Samsung Electronics Co., LTD.	Granted
3859	201310091250.6	CN	Samsung Electronics Co., LTD.	Pending
3860	201510006877.6	CN	Samsung Electronics Co., LTD.	Pending
3861	201510007111.X	CN	Samsung Electronics Co., LTD.	Pending
3862	201510069835.7	CN	Samsung Electronics Co., LTD.	Pending
3863	201510192457.1	CN	Samsung Electronics Co., LTD.	Pending
3864	CY 2629528	CY	Samsung Electronics Co., LTD.	Granted
3865	CZ 2629528	CZ	Samsung Electronics Co., LTD.	Granted
3866	DE 2629528	DE	Samsung Electronics Co., LTD.	Granted
3867	DK 2629528	DK	Samsung Electronics Co., LTD.	Granted
3868	EE 2629528	EE	Samsung Electronics Co., LTD.	Granted
3869	10836203.9	EP	Samsung Electronics Co., LTD.	Pending
3870	13167741.1	EP	Samsung Electronics Co., LTD.	Pending
3871	15159951.1	EP	Samsung Electronics Co., LTD.	Pending
3872	15159952.9	EP	Samsung Electronics Co., LTD.	Pending
3873	ES 2629528	ES	Samsung Electronics Co., LTD.	Granted
3874	FI 2629528	FI	Samsung Electronics Co., LTD.	Granted
3875	FR 2629528	FR	Samsung Electronics Co., LTD.	Granted
3876	GB 2629528	GB	Samsung Electronics Co., LTD.	Granted
3877	GR 2629528	GR	Samsung Electronics Co., LTD.	Granted
3878	HR 2629528	HR	Samsung Electronics Co., LTD.	Granted
3879	HU 2629528	HU	Samsung Electronics Co., LTD.	Granted
3880	W-00201202678	ID	Samsung Electronics Co., LTD.	Pending
3881	W-00201303992	ID	Samsung Electronics Co., LTD.	Pending
3882	W-00201303994	ID	Samsung Electronics Co., LTD.	Pending
3883	P00201502612	ID	Samsung Electronics Co., LTD.	Pending
3884	P00201502613	ID	Samsung Electronics Co., LTD.	Pending
3885	IE 2629528	IE	Samsung Electronics Co., LTD.	Granted
3886	1687/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
3887	929/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
3888	930/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending

3889	850/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3890	851/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3891	852/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
3892	IS 2629528	IS	Samsung Electronics Co., LTD.	Granted
3893	IT 2629528	IT	Samsung Electronics Co., LTD.	Granted
3894	JP 5632515	JP	Samsung Electronics Co., LTD.	Granted
3895	JP 5632516	JP	Samsung Electronics Co., LTD.	Granted
3896	2016-105544	JP	Samsung Electronics Co., LTD.	Pending
3897	KR 1484280	KR	Samsung Electronics Co., LTD.	Granted
3898	P20140148722	KR	Samsung Electronics Co., LTD.	Pending
3899	P20150008765	KR	Samsung Electronics Co., LTD.	Pending
3900	LI 2629528	LI	Samsung Electronics Co., LTD.	Granted
3901	LT 2629528	LT	Samsung Electronics Co., LTD.	Granted
3902	LU 2629528	LU	Samsung Electronics Co., LTD.	Granted
3903	LV 2629528	LV	Samsung Electronics Co., LTD.	Granted
3904	MC 2629528	MC	Samsung Electronics Co., LTD.	Granted
3905	MK 2629528	MK	Samsung Electronics Co., LTD.	Granted
3906	MT 2629528	MT	Samsung Electronics Co., LTD.	Granted
3907	MX 316852	MX	Samsung Electronics Co., LTD.	Granted
3908	PI2012002568	MY	Samsung Electronics Co., LTD.	Pending
3909	PI2013003241	MY	Samsung Electronics Co., LTD.	Pending
3910	MY 155120-A	MY	Samsung Electronics Co., LTD.	Granted
3911	PI2015001427	MY	Samsung Electronics Co., LTD.	Pending
3912	PI2015001426	MY	Samsung Electronics Co., LTD.	Pending
3913	NL 2629528	NL	Samsung Electronics Co., LTD.	Granted
3914	NO 2629528	NO	Samsung Electronics Co., LTD.	Granted
3915	PL 2629528	PL	Samsung Electronics Co., LTD.	Granted
3916	PT 2629528	PT	Samsung Electronics Co., LTD.	Granted
3917	RO 2629528	RO	Samsung Electronics Co., LTD.	Granted
3918	SR 2629528	Rs	Samsung Electronics Co., LTD.	Granted
3919	RU 2517404	RU	Samsung Electronics Co., LTD.	Granted
3920	RU 2517253	RU	Samsung Electronics Co., LTD.	Granted
3921	RU 2515226	RU	Samsung Electronics Co., LTD.	Granted

3922	SE 2629528	SE	Samsung Electronics Co., LTD.	Granted
3923	SI 2629528	SI	Samsung Electronics Co., LTD.	Granted
3924	SK 2629528	SK	Samsung Electronics Co., LTD.	Granted
3925	SM 2629528	SM	Samsung Electronics Co., LTD.	Granted
3926	TR 2629528	TR	Samsung Electronics Co., LTD.	Granted
3927	US 8938006	US	Samsung Electronics Co., LTD.	Granted
3928	US8780993	US	Samsung Electronics Co., LTD.	Granted
3929	US 8885725	US	Samsung Electronics Co., LTD.	Granted
3930	US 8885723	US	Samsung Electronics Co., LTD.	Granted
3931	US 8885724	US	Samsung Electronics Co., LTD.	Granted
3932	US15/016790	US	Samsung Electronics Co., LTD.	Pending
3933	VN 1-2012-01954	VN	Samsung Electronics Co., LTD.	Granted
3934	1-2013-00803	VN	Samsung Electronics Co., LTD.	Pending
3935	1-2013-00804	VN	Samsung Electronics Co., LTD.	Pending
3936	VN 1-2015-01763	VN	Samsung Electronics Co., LTD.	Granted
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3966	KR 1457418	KR	Samsung Electronics Co., LTD.	Granted
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3970	MX 323423	MX	Samsung Electronics Co., LTD.	Granted
3971	MX 326542	MX	Samsung Electronics Co., LTD.	Granted
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4003	AU 2014202994	AU	Samsung Electronics Co., LTD.	Granted
4004	11 2012 017408 8	BR	Samsung Electronics Co., LTD.	Pending
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4067	ZA 2013/04982	ZA	Samsung Electronics Co., LTD.	Granted
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4086	1924/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending

4087	1361/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
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4092	JP 5718363	JP	Samsung Electronics Co., LTD.	Granted
4093	KR 1487687	KR	Samsung Electronics Co., LTD.	Granted
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4095	PI2012003195	MY	Samsung Electronics Co., LTD.	Pending
4096	MY-155335-A	MY	Samsung Electronics Co., LTD.	Granted
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4106	US8842927	US	Samsung Electronics Co., LTD.	Granted
4107	US 8923641	US	Samsung Electronics Co., LTD.	Granted
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4134	KR 1457396	KR	Samsung Electronics Co., LTD.	Granted
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4170	1-2016-00161	VN	Samsung Electronics Co., LTD.	Pending
4171	1-2016-00160	VN	Samsung Electronics Co., LTD.	Pending

Disclosure of Information

In accordance with Sections 3 and 4 of the ATSC Patent Policy, if the Discloser has made a licensing declaration under paragraph (c) above, please provide the following information;

- an identification of each patent or patent application that is the subject matter of the Essential Claim;

- an identification of specific section(s) or text of the Specification Document that are relevant to the Essential Claim; and

- an identification of each patent or patent application claim covering the Specification Document.

This information is informal in nature and does not constitute a legal opinion, but should be based on "good faith and belief" of the Discloser. Information provided in this section does not represent a formal "notice" that implementation of any resulting ATSC Standard or Recommended Practice would infringe any patent or patent application for the Essential Claim.

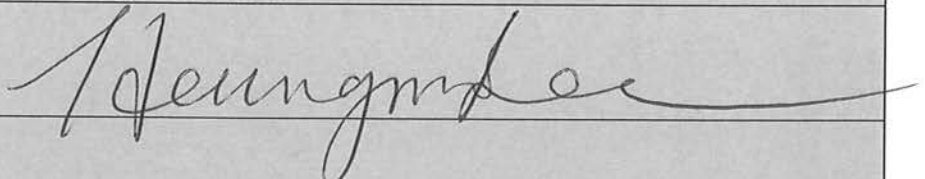
Completed By:

Name of Participant Samsung Electronics Co., LTD.

Name of Representative Heungmo Lee

Title of Representative Senior Vice President

Signature



Place, Date Seoul, Korea, May 20, 2018