

# ATSC

## Disclosure Statement and Licensing Declaration

This declaration does not represent an implied license grant

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Identification of ATSC Specification Document relevant to the Disclosure Statement:

Number

A/322, A/330, A/331, A/341, A/342

Title

ATSC Proposed Standard : Physical Layer Protocol (A/322),  
ATSC Candidate Standard : Link Layer Protocol (A/330),  
Signaling, Delivery, Synchronization, and Error Protection  
(A/331), Video Standard(A/341), Audio Standard (A/342)

## Licensing Declaration

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).

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.

Mark here    if the Discloser's willingness to license is conditioned on reciprocity for the above ATSC Standard.

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.

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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.

**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.

**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.

### Disclosure of Patents

In accordance with Sections 3 and 4 of the ATSC Patent Policy, please identify each patent or patent application forming the subject matter of any Potential Claim of which any Representative of the Discloser who is active in an ATSC technology group or specialist group has actual personal knowledge. The Discloser, in good faith, believes that the Potential Claim may be relevant to the implementation of the Specification Document identified by this Disclosure Statement.

No.	Patent/Application No.	Country	Patent/ Application Holder	Status [granted/pending]
1	5512038	JP	Samsung Electronics Co., LTD.	Granted
2	US8638818	US	Samsung Electronics Co., LTD.	Granted
3	KR2011/002836	WO	Samsung Electronics Co., LTD.	Pending
4	US14/158177	US	Samsung Electronics Co., LTD.	Pending
5	P20100036180	KR	Samsung Electronics Co., LTD.	Pending
6	11772225.6	EP	Samsung Electronics Co., LTD.	Pending
7	201180020090.5	CN	Samsung Electronics Co., LTD.	Pending
8	5897603	JP	Samsung Electronics Co., LTD.	Granted
9	PCT/KR2012/000505	WO	Samsung Electronics Co., LTD.	Pending
10	US13/980443	US	Samsung Electronics Co., LTD.	Pending
11	P20110005625	KR	Samsung Electronics Co., LTD.	Pending
12	2016-39849	JP	Samsung Electronics Co., LTD.	Pending
13	6482/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
14	12736581.5	EP	Samsung Electronics Co., LTD.	Pending
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16	2012207719	AU	Samsung Electronics Co., LTD.	Pending
17	2012207725	AU	Samsung Electronics Co., LTD.	Granted
18	US8544052	US	Samsung Electronics Co., LTD.	Granted
19	US9009347	US	Samsung Electronics Co., LTD.	Granted
20	PCT/KR2012/000514	WO	Samsung Electronics Co., LTD.	Pending
21	US14/684808	US	Samsung Electronics Co., LTD.	Pending
22	P20137021764	KR	Samsung Electronics Co., LTD.	Pending
23	P20110005650	KR	Samsung Electronics Co., LTD.	Pending
24	2013-550410	JP	Samsung Electronics Co., LTD.	Pending
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29	US13/421375	US	Samsung Electronics Co., LTD.	Pending
30	P20110023578	KR	Samsung Electronics Co., LTD.	Pending
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32	US9191032	US	Samsung Electronics Co., LTD.	Granted
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34	US14/942381	US	Samsung Electronics Co., LTD.	Pending
35	2014100886	RU	Samsung Electronics Co., LTD.	Pending
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63	P20150024328	KR	Samsung Electronics Co., LTD.	Pending

64	P20110104879	KR	Samsung Electronics Co., LTD.	Pending
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74	2014-535657	JP	Samsung Electronics Co., LTD.	Pending
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94	US13/690808	US	Samsung Electronics Co., LTD.	Pending
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97	2014-544672	JP	Samsung Electronics Co., LTD.	Pending
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99	201280058688.8	CN	Samsung Electronics Co., LTD.	Pending
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101	US9043682	US	Samsung Electronics Co., LTD.	Granted
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103	US15/243055	US	Samsung Electronics Co., LTD.	Pending
104	US14/720141	US	Samsung Electronics Co., LTD.	Pending
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131	337351	MX	Samsung Electronics Co., LTD.	Granted
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133	US9059741	US	Samsung Electronics Co., LTD.	Granted

134	PCT/KR2012/009466	WO	Samsung Electronics Co., LTD.	Pending
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141	PCT/KR2013/009116	WO	Samsung Electronics Co., LTD.	Pending
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154	2015117516	RU	Samsung Electronics Co., LTD.	Pending
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289	PCT/KR2014/002643	WO	Samsung Electronics Co., LTD.	Pending
290	1-2015-04048	VN	Samsung Electronics Co., LTD.	Pending
291	US14/781235	US	Samsung Electronics Co., LTD.	Pending
292	1501005954	TH	Samsung Electronics Co., LTD.	Pending
293	11201507726X	SG	Samsung Electronics Co., LTD.	Pending
294	2015146225	RU	Samsung Electronics Co., LTD.	Pending
295	PI2015703394	MY	Samsung Electronics Co., LTD.	Pending
296	MX/a/2015/013783	MX	Samsung Electronics Co., LTD.	Pending
297	P20157022453	KR	Samsung Electronics Co., LTD.	Pending
298	2015-562940	JP	Samsung Electronics Co., LTD.	Pending
299	2842/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
300	P-00201506926	ID	Samsung Electronics Co., LTD.	Pending
301	14773799.3	EP	Samsung Electronics Co., LTD.	Pending
302	201480019359.1	CN	Samsung Electronics Co., LTD.	Pending
303	2908037	CA	Samsung Electronics Co., LTD.	Pending
304	1120150246923	BR	Samsung Electronics Co., LTD.	Pending
305	2014244722	AU	Samsung Electronics Co., LTD.	Pending
306	PCT/KR2013/011182	WO	Samsung Electronics Co., LTD.	Pending
307	1-2015-02444	VN	Samsung Electronics Co., LTD.	Pending
308	US14/649824	US	Samsung Electronics Co., LTD.	Pending

309	1501003095	TH	Samsung Electronics Co., LTD.	Pending
310	11201504368V	SG	Samsung Electronics Co., LTD.	Pending
311	2015126777	RU	Samsung Electronics Co., LTD.	Pending
312	PI2015701775	MY	Samsung Electronics Co., LTD.	Pending
313	MX/a/2015/007100	MX	Samsung Electronics Co., LTD.	Pending
314	P20157018083	KR	Samsung Electronics Co., LTD.	Pending
315	2015-546386	JP	Samsung Electronics Co., LTD.	Pending
316	1771/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
317	P-00201504108	ID	Samsung Electronics Co., LTD.	Pending
318	13861015.9	EP	Samsung Electronics Co., LTD.	Pending
319	201380072141.8	CN	Samsung Electronics Co., LTD.	Pending
320	2893729	CA	Samsung Electronics Co., LTD.	Pending
321	BR1120150131549	BR	Samsung Electronics Co., LTD.	Pending
322	2013355504	AU	Samsung Electronics Co., LTD.	Pending
323	PCT/KR2013/000047	WO	Samsung Electronics Co., LTD.	Pending
324	US14/324740	US	Samsung Electronics Co., LTD.	Pending
325	P20130001218	KR	Samsung Electronics Co., LTD.	Pending
326	13733650.9	EP	Samsung Electronics Co., LTD.	Pending
327	KR2011/004937	WO	Samsung Electronics Co., LTD.	Pending
328	1-2013-00418	VN	Samsung Electronics Co., LTD.	Pending
329	US13/177903	US	Samsung Electronics Co., LTD.	Pending
330	1301000042	TH	Samsung Electronics Co., LTD.	Pending
331	186868	SG	Samsung Electronics Co., LTD.	Granted
332	2015134326	RU	Samsung Electronics Co., LTD.	Pending
333	2564050	RU	Samsung Electronics Co., LTD.	Granted
334	PI2013000036	MY	Samsung Electronics Co., LTD.	Pending
335	313557	MX	Samsung Electronics Co., LTD.	Granted
336	P20100137232	KR	Samsung Electronics Co., LTD.	Pending
337	2016-047473	JP	Samsung Electronics Co., LTD.	Pending
338	2013-518274	JP	Samsung Electronics Co., LTD.	Pending
339	268/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
340	W-00201300527	ID	Samsung Electronics Co., LTD.	Pending
341	11803793.6	EP	Samsung Electronics Co., LTD.	Pending
342	201510818493.4	CN	Samsung Electronics Co., LTD.	Pending
343	201180042811.2	CN	Samsung Electronics Co., LTD.	Pending

344	2804346	CA	Samsung Electronics Co., LTD.	Pending
345	BR112013000328-6	BR	Samsung Electronics Co., LTD.	Pending
346	2015207829	AU	Samsung Electronics Co., LTD.	Pending
347	2011274709	AU	Samsung Electronics Co., LTD.	Pending
348	PCT/KR2015/011799	WO	Samsung Electronics Co., LTD.	Pending
349	US14/932320	US	Samsung Electronics Co., LTD.	Pending
350	P20150154332	KR	Samsung Electronics Co., LTD.	Pending
351	PCT/KR2016/006144	WO	Samsung Electronics Co., LTD.	Pending
352	US15/177481	US	Samsung Electronics Co., LTD.	Pending
353	P20160016444	KR	Samsung Electronics Co., LTD.	Pending
354	PCT/KR2016/006143	WO	Samsung Electronics Co., LTD.	Pending
355	US15/177522	US	Samsung Electronics Co., LTD.	Pending
356	P20160016379	KR	Samsung Electronics Co., LTD.	Pending
357	PCT/KR2016/006142	WO	Samsung Electronics Co., LTD.	Pending
358	US15/177469	US	Samsung Electronics Co., LTD.	Pending
359	P20160016406	KR	Samsung Electronics Co., LTD.	Pending
360	PCT/KR2016/000137	WO	Samsung Electronics Co., LTD.	Pending
361	US14/989894	US	Samsung Electronics Co., LTD.	Pending
362	P20150177018	KR	Samsung Electronics Co., LTD.	Pending
363	PCT/KR2015/012131	WO	Samsung Electronics Co., LTD.	Pending
364	US14/938116	US	Samsung Electronics Co., LTD.	Pending
365	P20150158268	KR	Samsung Electronics Co., LTD.	Pending
366	PCT/KR2016/007138	WO	Samsung Electronics Co., LTD.	Pending
367	US15/200238	US	Samsung Electronics Co., LTD.	Pending
368	P20160014916	KR	Samsung Electronics Co., LTD.	Pending
369	PCT/KR2016/002092	WO	Samsung Electronics Co., LTD.	Pending
370	US15/058255	US	Samsung Electronics Co., LTD.	Pending
371	P20150137189	KR	Samsung Electronics Co., LTD.	Pending
372	PCT/KR2016/002090	WO	Samsung Electronics Co., LTD.	Pending
373	US15/058364	US	Samsung Electronics Co., LTD.	Pending
374	P20150137190	KR	Samsung Electronics Co., LTD.	Pending
375	PCT/KR2016/001506	WO	Samsung Electronics Co., LTD.	Pending
376	US15/044419	US	Samsung Electronics Co., LTD.	Pending
377	P20150137191	KR	Samsung Electronics Co., LTD.	Pending
378	PCT/KR2016/001820	WO	Samsung Electronics Co., LTD.	Pending

379	US15/099998	US	Samsung Electronics Co., LTD.	Pending
380	US15/052049	US	Samsung Electronics Co., LTD.	Pending
381	P20150137187	KR	Samsung Electronics Co., LTD.	Pending
382	US14/716427	US	Samsung Electronics Co., LTD.	Pending
383	US14/716023	US	Samsung Electronics Co., LTD.	Pending
384	US14/716283	US	Samsung Electronics Co., LTD.	Pending
385	US14/715747	US	Samsung Electronics Co., LTD.	Pending
386	US14/715892	US	Samsung Electronics Co., LTD.	Pending
387	US14/715873	US	Samsung Electronics Co., LTD.	Pending
388	US14/715817	US	Samsung Electronics Co., LTD.	Pending
389	US14/714565	US	Samsung Electronics Co., LTD.	Pending
390	US14/715845	US	Samsung Electronics Co., LTD.	Pending
391	US14/716271	US	Samsung Electronics Co., LTD.	Pending
392	US14/716093	US	Samsung Electronics Co., LTD.	Pending
393	US14/715908	US	Samsung Electronics Co., LTD.	Pending
394	US14/715795	US	Samsung Electronics Co., LTD.	Pending
395	US14/716340	US	Samsung Electronics Co., LTD.	Pending
396	US14/716222	US	Samsung Electronics Co., LTD.	Pending
397	US14/716013	US	Samsung Electronics Co., LTD.	Pending
398	US14/714530	US	Samsung Electronics Co., LTD.	Pending
399	US14/715780	US	Samsung Electronics Co., LTD.	Pending
400	US14/714624	US	Samsung Electronics Co., LTD.	Pending
401	US14/715674	US	Samsung Electronics Co., LTD.	Pending
402	US14/715861	US	Samsung Electronics Co., LTD.	Pending
403	US14/714508	US	Samsung Electronics Co., LTD.	Pending
404	US14/716324	US	Samsung Electronics Co., LTD.	Pending
405	US14/716053	US	Samsung Electronics Co., LTD.	Pending
406	US14/715941	US	Samsung Electronics Co., LTD.	Pending
407	US14/715764	US	Samsung Electronics Co., LTD.	Pending
408	US14/716287	US	Samsung Electronics Co., LTD.	Pending
409	US14/716156	US	Samsung Electronics Co., LTD.	Pending
410	US14/716365	US	Samsung Electronics Co., LTD.	Pending
411	US14/716172	US	Samsung Electronics Co., LTD.	Pending
412	PCT/KR2016/002088	WO	Samsung Electronics Co., LTD.	Pending
413	US15/130040	US	Samsung Electronics Co., LTD.	Pending

414	US15/058415	US	Samsung Electronics Co., LTD.	Pending
415	P20150137186	KR	Samsung Electronics Co., LTD.	Pending
416	PCT/KR2016/002086	WO	Samsung Electronics Co., LTD.	Pending
417	US15/058515	US	Samsung Electronics Co., LTD.	Pending
418	P20150137183	KR	Samsung Electronics Co., LTD.	Pending
419	PCT/KR2016/002093	WO	Samsung Electronics Co., LTD.	Pending
420	US15/130011	US	Samsung Electronics Co., LTD.	Pending
421	US15/058318	US	Samsung Electronics Co., LTD.	Pending
422	P20150137185	KR	Samsung Electronics Co., LTD.	Pending
423	P20150137185	KR	Samsung Electronics Co., LTD.	Pending
424	PCT/KR2016/002094	WO	Samsung Electronics Co., LTD.	Pending
425	US15/058242	US	Samsung Electronics Co., LTD.	Pending
426	PCT/KR2016/002091	WO	Samsung Electronics Co., LTD.	Pending
427	US15/058348	US	Samsung Electronics Co., LTD.	Pending
428	P20150137188	KR	Samsung Electronics Co., LTD.	Pending
429	PCT/KR2016/002087	WO	Samsung Electronics Co., LTD.	Pending
430	US15/058353	US	Samsung Electronics Co., LTD.	Pending
431	P20150137184	KR	Samsung Electronics Co., LTD.	Pending
432	PCT/KR2016/002074	WO	Samsung Electronics Co., LTD.	Pending
433	US15/130181	US	Samsung Electronics Co., LTD.	Pending
434	US15/058365	US	Samsung Electronics Co., LTD.	Pending
435	P20150137181	KR	Samsung Electronics Co., LTD.	Pending
436	PCT/KR2016/001885	WO	Samsung Electronics Co., LTD.	Pending
437	US15/053058	US	Samsung Electronics Co., LTD.	Pending
438	P20150137180	KR	Samsung Electronics Co., LTD.	Pending
439	PCT/KR2016/001883	WO	Samsung Electronics Co., LTD.	Pending
440	US15/053101	US	Samsung Electronics Co., LTD.	Pending
441	P20150137179	KR	Samsung Electronics Co., LTD.	Pending
442	PCT/KR2016/001880	WO	Samsung Electronics Co., LTD.	Pending
443	US15/099825	US	Samsung Electronics Co., LTD.	Pending
444	US15/053038	US	Samsung Electronics Co., LTD.	Pending
445	P20150137178	KR	Samsung Electronics Co., LTD.	Pending
446	PCT/KR2016/001500	WO	Samsung Electronics Co., LTD.	Pending
447	US15/044266	US	Samsung Electronics Co., LTD.	Pending
448	P20160014351	KR	Samsung Electronics Co., LTD.	Pending

449	PCT/KR2016/000252	WO	Samsung Electronics Co., LTD.	Pending
450	US14/992105	US	Samsung Electronics Co., LTD.	Pending
451	P20150162420	KR	Samsung Electronics Co., LTD.	Pending
452	PCT/KR2014/006024	WO	Samsung Electronics Co., LTD.	Pending
453	1-2016-00511	VN	Samsung Electronics Co., LTD.	Pending
454	US14/324436	US	Samsung Electronics Co., LTD.	Pending
455	MX/a/2016/000010	MX	Samsung Electronics Co., LTD.	Pending
456	P20140083647	KR	Samsung Electronics Co., LTD.	Pending
457	14819774.2	EP	Samsung Electronics Co., LTD.	Pending
458	201480038616.6	CN	Samsung Electronics Co., LTD.	Pending
459	2917422	CA	Samsung Electronics Co., LTD.	Pending
460	BR1120160001460	BR	Samsung Electronics Co., LTD.	Pending
461	PCT/KR2015/001694	WO	Samsung Electronics Co., LTD.	Pending
462	US15/130204	US	Samsung Electronics Co., LTD.	Pending
463	US14/625862	US	Samsung Electronics Co., LTD.	Pending
464	P20150000671	KR	Samsung Electronics Co., LTD.	Pending
465	PCT/KR2015/005101	WO	Samsung Electronics Co., LTD.	Pending
466	US15/130154	US	Samsung Electronics Co., LTD.	Pending
467	US14/716124	US	Samsung Electronics Co., LTD.	Pending
468	P20150000672	KR	Samsung Electronics Co., LTD.	Pending
469	PCT/KR2015/005099	WO	Samsung Electronics Co., LTD.	Pending
470	US15/130096	US	Samsung Electronics Co., LTD.	Pending
471	US14/716132	US	Samsung Electronics Co., LTD.	Pending
472	P20150000697	KR	Samsung Electronics Co., LTD.	Pending
473	PCT/KR2015/005097	WO	Samsung Electronics Co., LTD.	Pending
474	US14/716503	US	Samsung Electronics Co., LTD.	Pending
475	P20150069924	KR	Samsung Electronics Co., LTD.	Pending
476	PCT/KR2015/001191	WO	Samsung Electronics Co., LTD.	Pending
477	US14/615148	US	Samsung Electronics Co., LTD.	Pending
478	MX/a/2016/010164	MX	Samsung Electronics Co., LTD.	Pending
479	P20150017971	KR	Samsung Electronics Co., LTD.	Pending
480	15746125.2	EP	Samsung Electronics Co., LTD.	Pending
481	BR1120160179455	BR	Samsung Electronics Co., LTD.	Pending
482	PCT/KR2014/006125	WO	Samsung Electronics Co., LTD.	Pending
483	US14/910948	US	Samsung Electronics Co., LTD.	Pending



484	P20167003433	KR	Samsung Electronics Co., LTD.	Pending
485	201627004230	IN	Samsung Electronics Co., LTD.	Pending
486	GB1410222.2	GB	Samsung Electronics Co., LTD.	Pending
487	201480050068.9	CN	Samsung Electronics Co., LTD.	Pending
488	2919830	CA	Samsung Electronics Co., LTD.	Pending
489	PCT/KR2015/002677	WO	Samsung Electronics Co., LTD.	Pending
490	US15/130001	US	Samsung Electronics Co., LTD.	Pending
491	US14/662379	US	Samsung Electronics Co., LTD.	Pending
492	P20150000677	KR	Samsung Electronics Co., LTD.	Pending
493	PCT/KR2015/001695	WO	Samsung Electronics Co., LTD.	Pending
494	US15/099946	US	Samsung Electronics Co., LTD.	Pending
495	US14/625795	US	Samsung Electronics Co., LTD.	Pending
496	P20150024183	KR	Samsung Electronics Co., LTD.	Pending
497	15751726.9	EP	Samsung Electronics Co., LTD.	Pending
498	US14/527953	US	Samsung Electronics Co., LTD.	Pending
499	P20140149342	KR	Samsung Electronics Co., LTD.	Pending
500	PCT/KR2014/008223	WO	Samsung Electronics Co., LTD.	Pending
501	1-2016-00860	VN	Samsung Electronics Co., LTD.	Pending
502	US14/476872	US	Samsung Electronics Co., LTD.	Pending
503	MX/a/2016/002827	MX	Samsung Electronics Co., LTD.	Pending
504	P20140054756	KR	Samsung Electronics Co., LTD.	Pending
505	201627009967	IN	Samsung Electronics Co., LTD.	Pending
506	14842565.5	EP	Samsung Electronics Co., LTD.	Pending
507	201480060384.4	CN	Samsung Electronics Co., LTD.	Pending
508	2923467	CA	Samsung Electronics Co., LTD.	Pending
509	BR1120160049152	BR	Samsung Electronics Co., LTD.	Pending
510	PCT/KR2014/007226	WO	Samsung Electronics Co., LTD.	Pending
511	1-2016-00740	VN	Samsung Electronics Co., LTD.	Pending
512	US14/452133	US	Samsung Electronics Co., LTD.	Pending
513	MX/a/2016/001582	MX	Samsung Electronics Co., LTD.	Pending
514	P20140062575	KR	Samsung Electronics Co., LTD.	Pending
515	201617007012	IN	Samsung Electronics Co., LTD.	Pending
516	14834212.4	EP	Samsung Electronics Co., LTD.	Pending
517	201480044670.1	CN	Samsung Electronics Co., LTD.	Pending
518	2920150	CA	Samsung Electronics Co., LTD.	Pending

519	BR1120160025024	BR	Samsung Electronics Co., LTD.	Pending
520	US14/506771	US	Samsung Electronics Co., LTD.	Pending
521	P20140134505	KR	Samsung Electronics Co., LTD.	Pending
522	US14/506794	US	Samsung Electronics Co., LTD.	Pending
523	P20140134441	KR	Samsung Electronics Co., LTD.	Pending
524	PCT/KR2014/006646	WO	Samsung Electronics Co., LTD.	Pending
525	1-2016-00626	VN	Samsung Electronics Co., LTD.	Pending
526	US14/337435	US	Samsung Electronics Co., LTD.	Pending
527	MX/a/2016/000901	MX	Samsung Electronics Co., LTD.	Pending
528	P20140054762	KR	Samsung Electronics Co., LTD.	Pending
529	201627005705	IN	Samsung Electronics Co., LTD.	Pending
530	14828802	EP	Samsung Electronics Co., LTD.	Pending
531	201480041602.X	CN	Samsung Electronics Co., LTD.	Pending
532	2919139	CA	Samsung Electronics Co., LTD.	Pending
533	BR1120160015240	BR	Samsung Electronics Co., LTD.	Pending
534	US14/497635	US	Samsung Electronics Co., LTD.	Pending
535	P20140129604	KR	Samsung Electronics Co., LTD.	Pending
536	US14/497779	US	Samsung Electronics Co., LTD.	Pending
537	P20140129606	KR	Samsung Electronics Co., LTD.	Pending
538	US14/488549	US	Samsung Electronics Co., LTD.	Pending
539	P20140123657	KR	Samsung Electronics Co., LTD.	Pending
540	PCT/KR2014/005204	WO	Samsung Electronics Co., LTD.	Pending
541	1-2016-00152	VN	Samsung Electronics Co., LTD.	Pending
542	US14/303834	US	Samsung Electronics Co., LTD.	Pending
543	MX/a/2015/017052	MX	Samsung Electronics Co., LTD.	Pending
544	P20140058599	KR	Samsung Electronics Co., LTD.	Pending
545	201647001007	IN	Samsung Electronics Co., LTD.	Pending
546	14810282.5	EP	Samsung Electronics Co., LTD.	Pending
547	201480033816.2	CN	Samsung Electronics Co., LTD.	Pending
548	2915740	CA	Samsung Electronics Co., LTD.	Pending
549	BR1120150311130	BR	Samsung Electronics Co., LTD.	Pending
550	PCT/KR2014/005588	WO	Samsung Electronics Co., LTD.	Pending
551	1-2016-00351	VN	Samsung Electronics Co., LTD.	Pending
552	US14/243103	US	Samsung Electronics Co., LTD.	Pending
553	MX/a/2015/017492	MX	Samsung Electronics Co., LTD.	Pending

554	P20130096128	KR	Samsung Electronics Co., LTD.	Pending
555	GB1311443.4	GB	Samsung Electronics Co., LTD.	Pending
556	14818032.6	EP	Samsung Electronics Co., LTD.	Pending
557	201480037117.5	CN	Samsung Electronics Co., LTD.	Pending
558	2916943	CA	Samsung Electronics Co., LTD.	Pending
559	BR1120150320678	BR	Samsung Electronics Co., LTD.	Pending
560	PCT/KR2014/005592	WO	Samsung Electronics Co., LTD.	Pending
561	1-2016-00370	VN	Samsung Electronics Co., LTD.	Pending
562	US14/305028	US	Samsung Electronics Co., LTD.	Pending
563	MX/a/2015/017350	MX	Samsung Electronics Co., LTD.	Pending
564	P20130075725	KR	Samsung Electronics Co., LTD.	Pending
565	3679/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
566	14818369.2	EP	Samsung Electronics Co., LTD.	Pending
567	201480037109.0	CN	Samsung Electronics Co., LTD.	Pending
568	2916946	CA	Samsung Electronics Co., LTD.	Pending
569	BR1120150320694	BR	Samsung Electronics Co., LTD.	Pending
570	KR2011/006462	WO	Samsung Electronics Co., LTD.	Pending
571	US9386562	US	Samsung Electronics Co., LTD.	Granted
572	US9179440	US	Samsung Electronics Co., LTD.	Granted
573	US8804675	US	Samsung Electronics Co., LTD.	Granted
574	311262	MX	Samsung Electronics Co., LTD.	Granted
575	P20110088158	KR	Samsung Electronics Co., LTD.	Pending
576	GB1014432.7	GB	Samsung Electronics Co., LTD.	Pending
577	2809953	CA	Samsung Electronics Co., LTD.	Pending
578	KR2010/008704	WO	Samsung Electronics Co., LTD.	Pending
579	US14/842210	US	Samsung Electronics Co., LTD.	Pending
580	US14/164870	US	Samsung Electronics Co., LTD.	Pending
581	US8689093	US	Samsung Electronics Co., LTD.	Granted
582	P20090120572	KR	Samsung Electronics Co., LTD.	Pending
583	10836189	EP	Samsung Electronics Co., LTD.	Pending
584	KR2010/008155	WO	Samsung Electronics Co., LTD.	Pending
585	US14/873877	US	Samsung Electronics Co., LTD.	Pending
586	US9154341	US	Samsung Electronics Co., LTD.	Granted
587	US8707125	US	Samsung Electronics Co., LTD.	Granted
588	P20127015593	KR	Samsung Electronics Co., LTD.	Pending

589	P20090111489	KR	Samsung Electronics Co., LTD.	Pending
590	5612699	JP	Samsung Electronics Co., LTD.	Granted
591	5116/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
592	10191630.2	EP	Samsung Electronics Co., LTD.	Pending
593	ZL201080061781.5	CN	Samsung Electronics Co., LTD.	Granted
594	2010322598	AU	Samsung Electronics Co., LTD.	Granted
595	KR2009/001051	WO	Samsung Electronics Co., LTD.	Pending
596	13658	VN	Samsung Electronics Co., LTD.	Granted
597	US8352844	US	Samsung Electronics Co., LTD.	Granted
598	I376907	TW	Samsung Electronics Co., LTD.	Granted
599	2101431	TR	Samsung Electronics Co., LTD.	Granted
600	2101430	TR	Samsung Electronics Co., LTD.	Granted
601	2101431	SK	Samsung Electronics Co., LTD.	Granted
602	2101430	SK	Samsung Electronics Co., LTD.	Granted
603	2099150	SK	Samsung Electronics Co., LTD.	Granted
604	2101431	SI	Samsung Electronics Co., LTD.	Granted
605	2101430	SI	Samsung Electronics Co., LTD.	Granted
606	164162	SG	Samsung Electronics Co., LTD.	Granted
607	2101431	SE	Samsung Electronics Co., LTD.	Granted
608	2101430	SE	Samsung Electronics Co., LTD.	Granted
609	2099150	SE	Samsung Electronics Co., LTD.	Granted
610	2453992	RU	Samsung Electronics Co., LTD.	Granted
611	2101431	RO	Samsung Electronics Co., LTD.	Granted
612	2101430	RO	Samsung Electronics Co., LTD.	Granted
613	2101431	PT	Samsung Electronics Co., LTD.	Granted
614	2101430	PT	Samsung Electronics Co., LTD.	Granted
615	2101431	PL	Samsung Electronics Co., LTD.	Granted
616	2101430	PL	Samsung Electronics Co., LTD.	Granted
617	2099150	PL	Samsung Electronics Co., LTD.	Granted
618	2101431	NO	Samsung Electronics Co., LTD.	Granted
619	2101430	NO	Samsung Electronics Co., LTD.	Granted
620	2101431	NL	Samsung Electronics Co., LTD.	Granted
621	2099150	NL	Samsung Electronics Co., LTD.	Granted
622	2101430	NL	Samsung Electronics Co., LTD.	Granted
623	2099150	NL	Samsung Electronics Co., LTD.	Granted

624	PI 2010004146	MY	Samsung Electronics Co., LTD.	Pending
625	P20080019650	KR	Samsung Electronics Co., LTD.	Pending
626	5670537	JP	Samsung Electronics Co., LTD.	Granted
627	5441270	JP	Samsung Electronics Co., LTD.	Granted
628	2101431	IT	Samsung Electronics Co., LTD.	Granted
629	2101430	IT	Samsung Electronics Co., LTD.	Granted
630	2099150	IT	Samsung Electronics Co., LTD.	Granted
631	6970/DELNP/2010	IN	Samsung Electronics Co., LTD.	Pending
632	IDP0032958	ID	Samsung Electronics Co., LTD.	Granted
633	2101431	HU	Samsung Electronics Co., LTD.	Granted
634	2101430	HU	Samsung Electronics Co., LTD.	Granted
635	2099150	HU	Samsung Electronics Co., LTD.	Granted
636	2101431	GR	Samsung Electronics Co., LTD.	Granted
637	2101430	GR	Samsung Electronics Co., LTD.	Granted
638	2101431	GB	Samsung Electronics Co., LTD.	Granted
639	2101430	GB	Samsung Electronics Co., LTD.	Granted
640	2099150	GB	Samsung Electronics Co., LTD.	Granted
641	2101431	FR	Samsung Electronics Co., LTD.	Granted
642	2101430	FR	Samsung Electronics Co., LTD.	Granted
643	2099150	FR	Samsung Electronics Co., LTD.	Granted
644	2101431	FI	Samsung Electronics Co., LTD.	Granted
645	2101430	FI	Samsung Electronics Co., LTD.	Granted
646	2099150	FI	Samsung Electronics Co., LTD.	Granted
647	2101431	ES	Samsung Electronics Co., LTD.	Granted
648	2101430	ES	Samsung Electronics Co., LTD.	Granted
649	2099150	ES	Samsung Electronics Co., LTD.	Granted
650	12160589.3	EP	Samsung Electronics Co., LTD.	Pending
651	11177843.7	EP	Samsung Electronics Co., LTD.	Pending
652	2101431	EP	Samsung Electronics Co., LTD.	Granted
653	2101430	EP	Samsung Electronics Co., LTD.	Granted
654	2099150	EP	Samsung Electronics Co., LTD.	Granted
655	2101431	DK	Samsung Electronics Co., LTD.	Granted
656	2101430	DK	Samsung Electronics Co., LTD.	Granted
657	2101431	DE	Samsung Electronics Co., LTD.	Granted
658	2101430	DE	Samsung Electronics Co., LTD.	Granted

659	2099150	DE	Samsung Electronics Co., LTD.	Granted
660	2101431	CZ	Samsung Electronics Co., LTD.	Granted
661	2101430	CZ	Samsung Electronics Co., LTD.	Granted
662	2099150	CZ	Samsung Electronics Co., LTD.	Granted
663	201310227235.X	CN	Samsung Electronics Co., LTD.	Pending
664	201310227250.4	CN	Samsung Electronics Co., LTD.	Pending
665	ZL200980115022.X	CN	Samsung Electronics Co., LTD.	Granted
666	2101431	CH	Samsung Electronics Co., LTD.	Granted
667	2101430	CH	Samsung Electronics Co., LTD.	Granted
668	2101431	BG	Samsung Electronics Co., LTD.	Granted
669	2101430	BG	Samsung Electronics Co., LTD.	Granted
670	2101431	BE	Samsung Electronics Co., LTD.	Granted
671	2101430	BE	Samsung Electronics Co., LTD.	Granted
672	2009220323	AU	Samsung Electronics Co., LTD.	Granted
673	2101431	AT	Samsung Electronics Co., LTD.	Granted
674	2101430	AT	Samsung Electronics Co., LTD.	Granted
675	KR/2009/001027	WO	Samsung Electronics Co., LTD.	Pending
676	US8533556	US	Samsung Electronics Co., LTD.	Granted
677	US8321745	US	Samsung Electronics Co., LTD.	Granted
678	P20080019607	KR	Samsung Electronics Co., LTD.	Pending
679	5461728	JP	Samsung Electronics Co., LTD.	Granted
680	5301575	JP	Samsung Electronics Co., LTD.	Granted
681	6950/DELNP/2010	IN	Samsung Electronics Co., LTD.	Pending
682	9154123.5	EP	Samsung Electronics Co., LTD.	Pending
683	201310127349.7	CN	Samsung Electronics Co., LTD.	Pending
684	ZL200980107576.5	CN	Samsung Electronics Co., LTD.	Granted
685	2009220393	AU	Samsung Electronics Co., LTD.	Granted
686	KR2008/007249	WO	Samsung Electronics Co., LTD.	Pending
687	12905	VN	Samsung Electronics Co., LTD.	Granted
688	US8166367	US	Samsung Electronics Co., LTD.	Granted
689	2381583	SK	Samsung Electronics Co., LTD.	Granted
690	2381582	SK	Samsung Electronics Co., LTD.	Granted
691	2239854	SK	Samsung Electronics Co., LTD.	Granted
692	2068449	SK	Samsung Electronics Co., LTD.	Granted
693	201209001.5	SG	Samsung Electronics Co., LTD.	Granted

694	161004	SG	Samsung Electronics Co., LTD.	Granted
695	2381583	SE	Samsung Electronics Co., LTD.	Granted
696	2381582	SE	Samsung Electronics Co., LTD.	Granted
697	2239854	SE	Samsung Electronics Co., LTD.	Granted
698	2068449	SE	Samsung Electronics Co., LTD.	Granted
699	2491728	RU	Samsung Electronics Co., LTD.	Granted
700	2491727	RU	Samsung Electronics Co., LTD.	Granted
701	2446585	RU	Samsung Electronics Co., LTD.	Granted
702	2381583	PL	Samsung Electronics Co., LTD.	Granted
703	2381582	PL	Samsung Electronics Co., LTD.	Granted
704	2239854	PL	Samsung Electronics Co., LTD.	Granted
705	2068449	PL	Samsung Electronics Co., LTD.	Granted
706	2381583	NL	Samsung Electronics Co., LTD.	Granted
707	2381582	NL	Samsung Electronics Co., LTD.	Granted
708	2239854	NL	Samsung Electronics Co., LTD.	Granted
709	2068449	NL	Samsung Electronics Co., LTD.	Granted
710	PI 2010002022	MY	Samsung Electronics Co., LTD.	Pending
711	P20070126083	KR	Samsung Electronics Co., LTD.	Pending
712	5441282	JP	Samsung Electronics Co., LTD.	Granted
713	5302972	JP	Samsung Electronics Co., LTD.	Granted
714	2381583	IT	Samsung Electronics Co., LTD.	Granted
715	2381582	IT	Samsung Electronics Co., LTD.	Granted
716	2239854	IT	Samsung Electronics Co., LTD.	Granted
717	2068449	IT	Samsung Electronics Co., LTD.	Granted
718	2067/KOLNP/2010	IN	Samsung Electronics Co., LTD.	Pending
719	W00201302138	ID	Samsung Electronics Co., LTD.	Pending
720	IDP000035518	ID	Samsung Electronics Co., LTD.	Granted
721	2381583	HU	Samsung Electronics Co., LTD.	Granted
722	2381582	HU	Samsung Electronics Co., LTD.	Granted
723	2239854	HU	Samsung Electronics Co., LTD.	Granted
724	2068449	HU	Samsung Electronics Co., LTD.	Granted
725	2381583	GB	Samsung Electronics Co., LTD.	Granted
726	2381582	GB	Samsung Electronics Co., LTD.	Granted
727	2239854	GB	Samsung Electronics Co., LTD.	Granted
728	2068449	GB	Samsung Electronics Co., LTD.	Granted

729	2381583	FR	Samsung Electronics Co., LTD.	Granted
730	2381582	FR	Samsung Electronics Co., LTD.	Granted
731	2239854	FR	Samsung Electronics Co., LTD.	Granted
732	2068449	FR	Samsung Electronics Co., LTD.	Granted
733	2381583	FI	Samsung Electronics Co., LTD.	Granted
734	2381582	FI	Samsung Electronics Co., LTD.	Granted
735	2239854	FI	Samsung Electronics Co., LTD.	Granted
736	2068449	FI	Samsung Electronics Co., LTD.	Granted
737	2381583	ES	Samsung Electronics Co., LTD.	Granted
738	2381582	ES	Samsung Electronics Co., LTD.	Granted
739	2239854	ES	Samsung Electronics Co., LTD.	Granted
740	2068449	ES	Samsung Electronics Co., LTD.	Granted
741	2381583	EP	Samsung Electronics Co., LTD.	Granted
742	2381582	EP	Samsung Electronics Co., LTD.	Granted
743	2239854	EP	Samsung Electronics Co., LTD.	Granted
744	2068449	EP	Samsung Electronics Co., LTD.	Granted
745	2381583	DE	Samsung Electronics Co., LTD.	Granted
746	2381582	DE	Samsung Electronics Co., LTD.	Granted
747	2239854	DE	Samsung Electronics Co., LTD.	Granted
748	2068449	DE	Samsung Electronics Co., LTD.	Granted
749	2381583	CZ	Samsung Electronics Co., LTD.	Granted
750	2381582	CZ	Samsung Electronics Co., LTD.	Granted
751	2239854	CZ	Samsung Electronics Co., LTD.	Granted
752	2068449	CZ	Samsung Electronics Co., LTD.	Granted
753	ZL200880119339.6	CN	Samsung Electronics Co., LTD.	Granted
754	2012200530	AU	Samsung Electronics Co., LTD.	Granted
755	2008332040	AU	Samsung Electronics Co., LTD.	Granted
756	KR2008/002722	WO	Samsung Electronics Co., LTD.	Pending
757	12811	VN	Samsung Electronics Co., LTD.	Granted
758	1-2009-02511	VN	Samsung Electronics Co., LTD.	Pending
759	US8879651	US	Samsung Electronics Co., LTD.	Granted
760	US8238484	US	Samsung Electronics Co., LTD.	Granted
761	US8406324	US	Samsung Electronics Co., LTD.	Granted
762	320315	MX	Samsung Electronics Co., LTD.	Granted
763	314960	MX	Samsung Electronics Co., LTD.	Granted



764	P1498019	KR	Samsung Electronics Co., LTD.	Granted
765	10105781	HK	Samsung Electronics Co., LTD.	Pending
766	20096321	FI	Samsung Electronics Co., LTD.	Pending
767	20096316	FI	Samsung Electronics Co., LTD.	Pending
768	112008002042.6	DE	Samsung Electronics Co., LTD.	Pending
769	112008001013.7	DE	Samsung Electronics Co., LTD.	Pending
770	ZL200910224800.0	CN	Samsung Electronics Co., LTD.	Granted
771	ZL200880012202.0	CN	Samsung Electronics Co., LTD.	Granted
772	2684387	CA	Samsung Electronics Co., LTD.	Granted
773	2681860	CA	Samsung Electronics Co., LTD.	Granted
774	PI0823175-3	BR	Samsung Electronics Co., LTD.	Pending
775	PI0811077-8	BR	Samsung Electronics Co., LTD.	Pending
776	KR2008/000636	WO	Samsung Electronics Co., LTD.	Pending
777	US8737432	US	Samsung Electronics Co., LTD.	Granted
778	P20160077424	KR	Samsung Electronics Co., LTD.	Pending
779	P1633879	KR	Samsung Electronics Co., LTD.	Granted
780	US9106455	US	Samsung Electronics Co., LTD.	Granted
781	US12/254282	US	Samsung Electronics Co., LTD.	Pending
782	US9166826	US	Samsung Electronics Co., LTD.	Granted
783	US8385448	US	Samsung Electronics Co., LTD.	Granted
784	US8325830	US	Samsung Electronics Co., LTD.	Granted
785	US8385447	US	Samsung Electronics Co., LTD.	Granted
786	US8406347	US	Samsung Electronics Co., LTD.	Granted
787	US8385437	US	Samsung Electronics Co., LTD.	Granted
788	US8149932	US	Samsung Electronics Co., LTD.	Granted
789	P1369838	KR	Samsung Electronics Co., LTD.	Granted
790	2004/002296	WO	Samsung Electronics Co., LTD.	Pending
791	US7340006	US	Samsung Electronics Co., LTD.	Granted
792	1515504	SE	Samsung Electronics Co., LTD.	Granted
793	2313910	RU	Samsung Electronics Co., LTD.	Granted
794	P0933115	KR	Samsung Electronics Co., LTD.	Granted
795	4303288	JP	Samsung Electronics Co., LTD.	Granted
796	1515504	IT	Samsung Electronics Co., LTD.	Granted
797	242608	IN	Samsung Electronics Co., LTD.	Granted
798	1515504	GB	Samsung Electronics Co., LTD.	Granted

799	1515504	FR	Samsung Electronics Co., LTD.	Granted
800	1515504	EP	Samsung Electronics Co., LTD.	Granted
801	1515504	DE	Samsung Electronics Co., LTD.	Granted
802	ZL200480025726.5	CN	Samsung Electronics Co., LTD.	Granted
803	2536234	CA	Samsung Electronics Co., LTD.	Granted
804	2004303047	AU	Samsung Electronics Co., LTD.	Granted
805	CA 2440013	CA	Samsung Electronics Co., LTD.	Granted
806	CN ZL200410005357.5	CN	Samsung Electronics Co., LTD.	Granted
807	RU 2276472	RU	Samsung Electronics Co., LTD.	Granted
808	IN 268596	IN	Samsung Electronics Co., LTD.	Granted
809	US 8160138	US	Samsung Electronics Co., LTD.	Granted
810	CN 03801207.3	CN	Samsung Electronics Co., LTD.	Granted
811	IN 203511	IN	Samsung Electronics Co., LTD.	Granted
812	CN ZL201210210549.4	CN	Samsung Electronics Co., LTD.	Granted
813	CN ZL201310013117	CN	Samsung Electronics Co., LTD.	Granted
814	CN ZL201310013145	CN	Samsung Electronics Co., LTD.	Granted
815	CN ZL201310013187	CN	Samsung Electronics Co., LTD.	Granted
816	CN ZL201310013142.7	CN	Samsung Electronics Co., LTD.	Granted
817	CN 200880020191.0	CN	Samsung Electronics Co., LTD.	Granted
818	AL 2665267	AL	Samsung Electronics Co., LTD.	Granted
819	AL 2804383	AL	Samsung Electronics Co., LTD.	Granted
820	AT 2665267	AT	Samsung Electronics Co., LTD.	Granted
821	AT 2804383	AT	Samsung Electronics Co., LTD.	Granted
822	AU 2010283045	AU	Samsung Electronics Co., LTD.	Granted
823	AU 2013202016	AU	Samsung Electronics Co., LTD.	Granted
824	AU 2013202015	AU	Samsung Electronics Co., LTD.	Granted
825	BE 2665267	BE	Samsung Electronics Co., LTD.	Granted
826	BE 2804383	BE	Samsung Electronics Co., LTD.	Granted
827	BG 2665267	BG	Samsung Electronics Co., LTD.	Granted
828	BG 2804383	BG	Samsung Electronics Co., LTD.	Granted
829	BR1120120023896	BR	Samsung Electronics Co., LTD.	Pending
830	1220130190120	BR	Samsung Electronics Co., LTD.	Pending
831	1220130190155	BR	Samsung Electronics Co., LTD.	Pending
832	CA 2770991	CA	Samsung Electronics Co., LTD.	Granted
833	CA 2814715	CA	Samsung Electronics Co., LTD.	Granted

834	CA 2814270	CA	Samsung Electronics Co., LTD.	Granted
835	CA 2876420	CA	Samsung Electronics Co., LTD.	Granted
836	CH 2665267	CH	Samsung Electronics Co., LTD.	Granted
837	CH 2804383	CH	Samsung Electronics Co., LTD.	Granted
838	CN ZL201080036192.1	CN	Samsung Electronics Co., LTD.	Granted
839	CN ZL201310086149.1	CN	Samsung Electronics Co., LTD.	Granted
840	CN ZL201310091738.9	CN	Samsung Electronics Co., LTD.	Granted
841	CN ZL201510004944.0	CN	Samsung Electronics Co., LTD.	Granted
842	201510004895	CN	Samsung Electronics Co., LTD.	Pending
843	CN ZL201510004975.6	CN	Samsung Electronics Co., LTD.	Granted
844	201510004976	CN	Samsung Electronics Co., LTD.	Pending
845	201510002762.X	CN	Samsung Electronics Co., LTD.	Pending
846	CY 2665267	CY	Samsung Electronics Co., LTD.	Granted
847	CY 2804383	CY	Samsung Electronics Co., LTD.	Granted
848	CZ 2665267	CZ	Samsung Electronics Co., LTD.	Granted
849	CZ 2804383	CZ	Samsung Electronics Co., LTD.	Granted
850	DE 131806135	DE	Samsung Electronics Co., LTD.	Granted
851	DE 141786988	DE	Samsung Electronics Co., LTD.	Granted
852	DK 2665267	DK	Samsung Electronics Co., LTD.	Granted
853	DK 2804383	DK	Samsung Electronics Co., LTD.	Granted
854	EE 2665267	EE	Samsung Electronics Co., LTD.	Granted
855	EE 2804383	EE	Samsung Electronics Co., LTD.	Granted
856	10808400	EP	Samsung Electronics Co., LTD.	Pending
857	13180614	EP	Samsung Electronics Co., LTD.	Pending
858	15151648	EP	Samsung Electronics Co., LTD.	Pending
859	15153212	EP	Samsung Electronics Co., LTD.	Pending
860	16180870	EP	Samsung Electronics Co., LTD.	Pending
861	ES 2665267	ES	Samsung Electronics Co., LTD.	Granted
862	ES 2804383	ES	Samsung Electronics Co., LTD.	Granted
863	FI 2665267	FI	Samsung Electronics Co., LTD.	Granted
864	FI 2804383	FI	Samsung Electronics Co., LTD.	Granted
865	FR 2665267	FR	Samsung Electronics Co., LTD.	Granted
866	FR 2804383	FR	Samsung Electronics Co., LTD.	Granted
867	GB 2665267	GB	Samsung Electronics Co., LTD.	Granted
868	GB 2804383	GB	Samsung Electronics Co., LTD.	Granted

869	GR 2665267	GR	Samsung Electronics Co., LTD.	Granted
870	GR 2804383	GR	Samsung Electronics Co., LTD.	Granted
871	HR 2665267	HR	Samsung Electronics Co., LTD.	Granted
872	HR 2804383	HR	Samsung Electronics Co., LTD.	Granted
873	HU 2665267	HU	Samsung Electronics Co., LTD.	Granted
874	HU 2804383	HU	Samsung Electronics Co., LTD.	Granted
875	ID W-00201200971	ID	Samsung Electronics Co., LTD.	Granted
876	W-00201301922	ID	Samsung Electronics Co., LTD.	Pending
877	W-00201301925	ID	Samsung Electronics Co., LTD.	Pending
878	P-00201500479	ID	Samsung Electronics Co., LTD.	Pending
879	P-00201500480	ID	Samsung Electronics Co., LTD.	Pending
880	P-00201500474	ID	Samsung Electronics Co., LTD.	Pending
881	IE 2665267	IE	Samsung Electronics Co., LTD.	Granted
882	IE 2804383	IE	Samsung Electronics Co., LTD.	Granted
883	2235/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
884	2468/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
885	2447/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
886	478/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
887	477/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
888	476/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
889	IS 2665267	IS	Samsung Electronics Co., LTD.	Granted
890	IS 2804383	IS	Samsung Electronics Co., LTD.	Granted
891	IT 2665267	IT	Samsung Electronics Co., LTD.	Granted
892	IT 2804383	IT	Samsung Electronics Co., LTD.	Granted
893	JP 5654597	JP	Samsung Electronics Co., LTD.	Granted
894	JP 5688123	JP	Samsung Electronics Co., LTD.	Granted
895	JP 5688124	JP	Samsung Electronics Co., LTD.	Granted
896	JP 5739571	JP	Samsung Electronics Co., LTD.	Granted
897	JP 5767387	JP	Samsung Electronics Co., LTD.	Granted
898	2015-123028	JP	Samsung Electronics Co., LTD.	Pending
899	KR 1487686	KR	Samsung Electronics Co., LTD.	Granted
900	KR 1454642	KR	Samsung Electronics Co., LTD.	Granted
901	P20160094148	KR	Samsung Electronics Co., LTD.	Pending
902	LI 2665267	LI	Samsung Electronics Co., LTD.	Granted
903	LI 2804383	LI	Samsung Electronics Co., LTD.	Granted

904	LT 2665267	LT	Samsung Electronics Co., LTD.	Granted
905	LT 2804383	LT	Samsung Electronics Co., LTD.	Granted
906	LU 2665267	LU	Samsung Electronics Co., LTD.	Granted
907	LU 2804383	LU	Samsung Electronics Co., LTD.	Granted
908	LV 2665267	LV	Samsung Electronics Co., LTD.	Granted
909	LV 2804383	LV	Samsung Electronics Co., LTD.	Granted
910	MC 2665267	MC	Samsung Electronics Co., LTD.	Granted
911	MC 2804383	MC	Samsung Electronics Co., LTD.	Granted
912	MK 2665267	MK	Samsung Electronics Co., LTD.	Granted
913	MK 2804383	MK	Samsung Electronics Co., LTD.	Granted
914	MT 2665267	MT	Samsung Electronics Co., LTD.	Granted
915	MT 2804383	MT	Samsung Electronics Co., LTD.	Granted
916	MX 320213	MX	Samsung Electronics Co., LTD.	Granted
917	MX 320209	MX	Samsung Electronics Co., LTD.	Granted
918	MX 322645	MX	Samsung Electronics Co., LTD.	Granted
919	MX 320205	MX	Samsung Electronics Co., LTD.	Granted
920	PI2012000237	MY	Samsung Electronics Co., LTD.	Pending
921	MY-155175-A	MY	Samsung Electronics Co., LTD.	Granted
922	MY-155121-A	MY	Samsung Electronics Co., LTD.	Granted
923	MY-154147-A	MY	Samsung Electronics Co., LTD.	Granted
924	PI 2015000361	MY	Samsung Electronics Co., LTD.	Pending
925	PI2015001521	MY	Samsung Electronics Co., LTD.	Pending
926	NL 2665267	NL	Samsung Electronics Co., LTD.	Granted
927	NL 2804383	NL	Samsung Electronics Co., LTD.	Granted
928	NO 2665267	NO	Samsung Electronics Co., LTD.	Granted
929	NO 2804383	NO	Samsung Electronics Co., LTD.	Granted
930	PL 2665267	PL	Samsung Electronics Co., LTD.	Granted
931	PL 2804383	PL	Samsung Electronics Co., LTD.	Granted
932	PT 2665267	PT	Samsung Electronics Co., LTD.	Granted
933	PT 2804383	PT	Samsung Electronics Co., LTD.	Granted
934	RO 2665267	RO	Samsung Electronics Co., LTD.	Granted
935	RO 2804383	RO	Samsung Electronics Co., LTD.	Granted
936	RU 2519280	RU	Samsung Electronics Co., LTD.	Granted
937	SE 2665267	SE	Samsung Electronics Co., LTD.	Granted
938	SE 2804383	SE	Samsung Electronics Co., LTD.	Granted

939	SI 2665267	SI	Samsung Electronics Co., LTD.	Granted
940	SI 2804383	SI	Samsung Electronics Co., LTD.	Granted
941	SK 2665267	SK	Samsung Electronics Co., LTD.	Granted
942	SK 2804383	SK	Samsung Electronics Co., LTD.	Granted
943	SM 2665267	SM	Samsung Electronics Co., LTD.	Granted
944	SM 2804383	SM	Samsung Electronics Co., LTD.	Granted
945	TR 2665267	TR	Samsung Electronics Co., LTD.	Granted
946	TR 2804383	TR	Samsung Electronics Co., LTD.	Granted
947	TW I430668	TW	Samsung Electronics Co., LTD.	Granted
948	TW I429291	TW	Samsung Electronics Co., LTD.	Granted
949	TW I426784	TW	Samsung Electronics Co., LTD.	Granted
950	TW I462594	TW	Samsung Electronics Co., LTD.	Granted
951	TW I474722	TW	Samsung Electronics Co., LTD.	Granted
952	TW I475889	TW	Samsung Electronics Co., LTD.	Granted
953	104102055	TW	Samsung Electronics Co., LTD.	Pending
954	US13/764119	US	Samsung Electronics Co., LTD.	Pending
955	US 8953682	US	Samsung Electronics Co., LTD.	Granted
956	US 8842734	US	Samsung Electronics Co., LTD.	Granted
957	US 9307238	US	Samsung Electronics Co., LTD.	Granted
958	US14/300047	US	Samsung Electronics Co., LTD.	Pending
959	US 9313490	US	Samsung Electronics Co., LTD.	Granted
960	1-2013-00802	VN	Samsung Electronics Co., LTD.	Pending
961	1-2013-00801	VN	Samsung Electronics Co., LTD.	Pending
962	1-2015-00300	VN	Samsung Electronics Co., LTD.	Pending
963	1-2015-00299	VN	Samsung Electronics Co., LTD.	Pending
964	1-2015-02717	VN	Samsung Electronics Co., LTD.	Pending
965	ZA 2013/03523	ZA	Samsung Electronics Co., LTD.	Granted
966	ZA 2013/03522	ZA	Samsung Electronics Co., LTD.	Granted
967	ZA 2014/03018	ZA	Samsung Electronics Co., LTD.	Granted
968	ZA 2014/03019	ZA	Samsung Electronics Co., LTD.	Granted
969	ZA 2014/03020	ZA	Samsung Electronics Co., LTD.	Granted
970	AU 2010283121	AU	Samsung Electronics Co., LTD.	Granted
971	AU 2013201857	AU	Samsung Electronics Co., LTD.	Granted
972	AU 2013201858	AU	Samsung Electronics Co., LTD.	Granted
973	AU 2013201859	AU	Samsung Electronics Co., LTD.	Granted

974	BR112012001514	BR	Samsung Electronics Co., LTD.	Pending
975	1220130190163	BR	Samsung Electronics Co., LTD.	Pending
976	1220130190171	BR	Samsung Electronics Co., LTD.	Pending
977	1220130190180	BR	Samsung Electronics Co., LTD.	Pending
978	2768182	CA	Samsung Electronics Co., LTD.	Pending
979	2820905	CA	Samsung Electronics Co., LTD.	Pending
980	CA 2820553	CA	Samsung Electronics Co., LTD.	Granted
981	2877202	CA	Samsung Electronics Co., LTD.	Pending
982	CN ZL201080036026.1	CN	Samsung Electronics Co., LTD.	Granted
983	201310132006	CN	Samsung Electronics Co., LTD.	Pending
984	201310130439	CN	Samsung Electronics Co., LTD.	Pending
985	201310131991	CN	Samsung Electronics Co., LTD.	Pending
986	201510002249	CN	Samsung Electronics Co., LTD.	Pending
987	201510001769	CN	Samsung Electronics Co., LTD.	Pending
988	10808397	EP	Samsung Electronics Co., LTD.	Pending
989	13185337	EP	Samsung Electronics Co., LTD.	Pending
990	13185338	EP	Samsung Electronics Co., LTD.	Pending
991	13185335	EP	Samsung Electronics Co., LTD.	Pending
992	15168129	EP	Samsung Electronics Co., LTD.	Pending
993	ID W00201200067	ID	Samsung Electronics Co., LTD.	Granted
994	ID W-00201302753	ID	Samsung Electronics Co., LTD.	Granted
995	W-00201302752	ID	Samsung Electronics Co., LTD.	Pending
996	W-00201302751	ID	Samsung Electronics Co., LTD.	Pending
997	529/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
998	664/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
999	666/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1000	667/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1001	1291/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1002	1292/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1003	JP 5756106	JP	Samsung Electronics Co., LTD.	Granted
1004	JP 5624178	JP	Samsung Electronics Co., LTD.	Granted
1005	JP 5571827	JP	Samsung Electronics Co., LTD.	Granted
1006	JP 5624179	JP	Samsung Electronics Co., LTD.	Granted
1007	KR 1452859	KR	Samsung Electronics Co., LTD.	Granted
1008	KR 1454664	KR	Samsung Electronics Co., LTD.	Granted

1009	KR 1477545	KR	Samsung Electronics Co., LTD.	Granted
1010	KR 1477546	KR	Samsung Electronics Co., LTD.	Granted
1011	P20160022010	KR	Samsung Electronics Co., LTD.	Pending
1012	MX 319251	MX	Samsung Electronics Co., LTD.	Granted
1013	MX 318519	MX	Samsung Electronics Co., LTD.	Granted
1014	MX 323298	MX	Samsung Electronics Co., LTD.	Granted
1015	MX 328193	MX	Samsung Electronics Co., LTD.	Granted
1016	MX 327687	MX	Samsung Electronics Co., LTD.	Granted
1017	PI2012000197	MY	Samsung Electronics Co., LTD.	Pending
1018	MY-154795-A	MY	Samsung Electronics Co., LTD.	Granted
1019	MY 155891-A	MY	Samsung Electronics Co., LTD.	Granted
1020	PI2013003328	MY	Samsung Electronics Co., LTD.	Pending
1021	RU 2559740	RU	Samsung Electronics Co., LTD.	Granted
1022	RU 2559738	RU	Samsung Electronics Co., LTD.	Granted
1023	2015120773	RU	Samsung Electronics Co., LTD.	Pending
1024	2015120764	RU	Samsung Electronics Co., LTD.	Pending
1025	TW I413417	TW	Samsung Electronics Co., LTD.	Granted
1026	TW I424749	TW	Samsung Electronics Co., LTD.	Granted
1027	TW I432033	TW	Samsung Electronics Co., LTD.	Granted
1028	102129568	TW	Samsung Electronics Co., LTD.	Pending
1029	TW I468019	TW	Samsung Electronics Co., LTD.	Granted
1030	TW I462593	TW	Samsung Electronics Co., LTD.	Granted
1031	US 8792558	US	Samsung Electronics Co., LTD.	Granted
1032	US 8787463	US	Samsung Electronics Co., LTD.	Granted
1033	US 8811488	US	Samsung Electronics Co., LTD.	Granted
1034	US14/341493	US	Samsung Electronics Co., LTD.	Pending
1035	1-2013-00832	VN	Samsung Electronics Co., LTD.	Pending
1036	1-2013-00833	VN	Samsung Electronics Co., LTD.	Pending
1037	1-2013-00835	VN	Samsung Electronics Co., LTD.	Pending
1038	1-2015-01764	VN	Samsung Electronics Co., LTD.	Pending
1039	ZA 2012/01158	ZA	Samsung Electronics Co., LTD.	Granted
1040	ZA 2013/04975	ZA	Samsung Electronics Co., LTD.	Granted
1041	ZA 2013/04976	ZA	Samsung Electronics Co., LTD.	Granted
1042	ZA 2013/04977	ZA	Samsung Electronics Co., LTD.	Granted
1043	2015/03389	ZA	Samsung Electronics Co., LTD.	Pending



1044	AU 2010285491	AU	Samsung Electronics Co., LTD.	Granted
1045	AU 2013201719	AU	Samsung Electronics Co., LTD.	Granted
1046	AU 2013201715	AU	Samsung Electronics Co., LTD.	Granted
1047	2014200535	AU	Samsung Electronics Co., LTD.	Pending
1048	AU 2014200537	AU	Samsung Electronics Co., LTD.	Granted
1049	2015202670	AU	Samsung Electronics Co., LTD.	Pending
1050	BR1120120034308	BR	Samsung Electronics Co., LTD.	Pending
1051	1220130201840	BR	Samsung Electronics Co., LTD.	Pending
1052	1220130201858	BR	Samsung Electronics Co., LTD.	Pending
1053	CA 2823808	CA	Samsung Electronics Co., LTD.	Granted
1054	2857365	CA	Samsung Electronics Co., LTD.	Pending
1055	2857370	CA	Samsung Electronics Co., LTD.	Pending
1056	2857392	CA	Samsung Electronics Co., LTD.	Pending
1057	CN 201080036789.6	CN	Samsung Electronics Co., LTD.	Granted
1058	CN ZL201310096270.2	CN	Samsung Electronics Co., LTD.	Granted
1059	CN ZL201310096284.4	CN	Samsung Electronics Co., LTD.	Granted
1060	201510075768	CN	Samsung Electronics Co., LTD.	Pending
1061	201510075249	CN	Samsung Electronics Co., LTD.	Pending
1062	201510075768.X	CN	Samsung Electronics Co., LTD.	Pending
1063	10810146	EP	Samsung Electronics Co., LTD.	Pending
1064	13185319	EP	Samsung Electronics Co., LTD.	Pending
1065	13185328	EP	Samsung Electronics Co., LTD.	Pending
1066	15168609	EP	Samsung Electronics Co., LTD.	Pending
1067	15168611	EP	Samsung Electronics Co., LTD.	Pending
1068	ID W-00201200066	ID	Samsung Electronics Co., LTD.	Granted
1069	ID P000039760	ID	Samsung Electronics Co., LTD.	Granted
1070	W-00201302942	ID	Samsung Electronics Co., LTD.	Pending
1071	604/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1072	634/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1073	633/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1074	1293/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1075	1295/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1076	1296/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1077	JP 5770185	JP	Samsung Electronics Co., LTD.	Granted
1078	2013-211775	JP	Samsung Electronics Co., LTD.	Pending

1079	2013-211776	JP	Samsung Electronics Co., LTD.	Pending
1080	2014-99018	JP	Samsung Electronics Co., LTD.	Pending
1081	2014-99019	JP	Samsung Electronics Co., LTD.	Pending
1082	2014-99020	JP	Samsung Electronics Co., LTD.	Pending
1083	2016-137202	JP	Samsung Electronics Co., LTD.	Pending
1084	2016-137203	JP	Samsung Electronics Co., LTD.	Pending
1085	KR 1452860	KR	Samsung Electronics Co., LTD.	Granted
1086	P20150052466	KR	Samsung Electronics Co., LTD.	Pending
1087	MX 319249	MX	Samsung Electronics Co., LTD.	Granted
1088	MX 323386	MX	Samsung Electronics Co., LTD.	Granted
1089	MX 323390	MX	Samsung Electronics Co., LTD.	Granted
1090	MX 323387	MX	Samsung Electronics Co., LTD.	Granted
1091	MX 323391	MX	Samsung Electronics Co., LTD.	Granted
1092	PI2012000238	MY	Samsung Electronics Co., LTD.	Pending
1093	MY 155173-A	MY	Samsung Electronics Co., LTD.	Granted
1094	PI2013003309	MY	Samsung Electronics Co., LTD.	Pending
1095	PI2015001391	MY	Samsung Electronics Co., LTD.	Pending
1096	PI2015001392	MY	Samsung Electronics Co., LTD.	Pending
1097	RU 2513708	RU	Samsung Electronics Co., LTD.	Granted
1098	RU 2514927	RU	Samsung Electronics Co., LTD.	Granted
1099	2014100169	RU	Samsung Electronics Co., LTD.	Pending
1100	2014100181	RU	Samsung Electronics Co., LTD.	Pending
1101	2014100179	RU	Samsung Electronics Co., LTD.	Pending
1102	2014100177	RU	Samsung Electronics Co., LTD.	Pending
1103	US 9313502	US	Samsung Electronics Co., LTD.	Granted
1104	US12/857682	US	Samsung Electronics Co., LTD.	Pending
1105	US 9277224	US	Samsung Electronics Co., LTD.	Granted
1106	US 9319686	US	Samsung Electronics Co., LTD.	Granted
1107	US14/056551	US	Samsung Electronics Co., LTD.	Pending
1108	US 9313503	US	Samsung Electronics Co., LTD.	Granted
1109	US14/056605	US	Samsung Electronics Co., LTD.	Pending
1110	US 9369715	US	Samsung Electronics Co., LTD.	Granted
1111	US14/299226	US	Samsung Electronics Co., LTD.	Pending
1112	VN 1-2012-00416	VN	Samsung Electronics Co., LTD.	Granted
1113	1-2013-00836	VN	Samsung Electronics Co., LTD.	Pending

1114	1-2013-00834	VN	Samsung Electronics Co., LTD.	Pending
1115	1-2015-01875	VN	Samsung Electronics Co., LTD.	Pending
1116	1-2015-01876	VN	Samsung Electronics Co., LTD.	Pending
1117	ZA 2012/01156	ZA	Samsung Electronics Co., LTD.	Granted
1118	ZA 2013/04971	ZA	Samsung Electronics Co., LTD.	Granted
1119	ZA 2013/04972	ZA	Samsung Electronics Co., LTD.	Granted
1120	2015/03434	ZA	Samsung Electronics Co., LTD.	Pending
1121	2015/03355	ZA	Samsung Electronics Co., LTD.	Pending
1122	2640076	AT	Samsung Electronics Co., LTD.	Granted
1123	AT 2712198	AT	Samsung Electronics Co., LTD.	Granted
1124	AT 2713617	AT	Samsung Electronics Co., LTD.	Granted
1125	AT 2713618	AT	Samsung Electronics Co., LTD.	Granted
1126	AT 2712200	AT	Samsung Electronics Co., LTD.	Granted
1127	2640076	BE	Samsung Electronics Co., LTD.	Granted
1128	BE 2712198	BE	Samsung Electronics Co., LTD.	Granted
1129	BE 2713617	BE	Samsung Electronics Co., LTD.	Granted
1130	BE 2713618	BE	Samsung Electronics Co., LTD.	Granted
1131	BE 2712200	BE	Samsung Electronics Co., LTD.	Granted
1132	2640076	BG	Samsung Electronics Co., LTD.	Granted
1133	BG 2712198	BG	Samsung Electronics Co., LTD.	Granted
1134	BG 2713617	BG	Samsung Electronics Co., LTD.	Granted
1135	BG 2713618	BG	Samsung Electronics Co., LTD.	Granted
1136	BG 2712200	BG	Samsung Electronics Co., LTD.	Granted
1137	2640076	CH	Samsung Electronics Co., LTD.	Granted
1138	CH 2712198	CH	Samsung Electronics Co., LTD.	Granted
1139	CH 2713617	CH	Samsung Electronics Co., LTD.	Granted
1140	CH 2713618	CH	Samsung Electronics Co., LTD.	Granted
1141	CH 2712200	CH	Samsung Electronics Co., LTD.	Granted
1142	201310093717	CN	Samsung Electronics Co., LTD.	Pending
1143	201410203258	CN	Samsung Electronics Co., LTD.	Pending
1144	201410202315	CN	Samsung Electronics Co., LTD.	Pending
1145	201410204122	CN	Samsung Electronics Co., LTD.	Pending
1146	201410203566	CN	Samsung Electronics Co., LTD.	Pending
1147	201410203601	CN	Samsung Electronics Co., LTD.	Pending
1148	2640076	CY	Samsung Electronics Co., LTD.	Granted

1149	CY 2712198	CY	Samsung Electronics Co., LTD.	Granted
1150	CY 2713617	CY	Samsung Electronics Co., LTD.	Granted
1151	CY 2713618	CY	Samsung Electronics Co., LTD.	Granted
1152	CY 2712200	CY	Samsung Electronics Co., LTD.	Granted
1153	2640076	CZ	Samsung Electronics Co., LTD.	Granted
1154	CZ 2712198	CZ	Samsung Electronics Co., LTD.	Granted
1155	CZ 2713617	CZ	Samsung Electronics Co., LTD.	Granted
1156	CZ 2713618	CZ	Samsung Electronics Co., LTD.	Granted
1157	CZ 2712200	CZ	Samsung Electronics Co., LTD.	Granted
1158	2640076	DE	Samsung Electronics Co., LTD.	Granted
1159	DE 2712198	DE	Samsung Electronics Co., LTD.	Granted
1160	DE 60 2009 033 875.7	DE	Samsung Electronics Co., LTD.	Granted
1161	DE 2713618	DE	Samsung Electronics Co., LTD.	Granted
1162	DE 60 2009 030 123.3	DE	Samsung Electronics Co., LTD.	Granted
1163	2640076	DK	Samsung Electronics Co., LTD.	Granted
1164	DK 2712198	DK	Samsung Electronics Co., LTD.	Granted
1165	DK 2713617	DK	Samsung Electronics Co., LTD.	Granted
1166	DK 2713618	DK	Samsung Electronics Co., LTD.	Granted
1167	DK 2712200	DK	Samsung Electronics Co., LTD.	Granted
1168	2640076	EE	Samsung Electronics Co., LTD.	Granted
1169	EE 2712198	EE	Samsung Electronics Co., LTD.	Granted
1170	EE 2713617	EE	Samsung Electronics Co., LTD.	Granted
1171	EE 2713618	EE	Samsung Electronics Co., LTD.	Granted
1172	EE 2712200	EE	Samsung Electronics Co., LTD.	Granted
1173	2640076	ES	Samsung Electronics Co., LTD.	Granted
1174	ES 2712198	ES	Samsung Electronics Co., LTD.	Granted
1175	ES 2713617	ES	Samsung Electronics Co., LTD.	Granted
1176	ES 2713618	ES	Samsung Electronics Co., LTD.	Granted
1177	ES 2533333	ES	Samsung Electronics Co., LTD.	Granted
1178	2640076	FI	Samsung Electronics Co., LTD.	Granted
1179	FI 2712198	FI	Samsung Electronics Co., LTD.	Granted
1180	FI 2713617	FI	Samsung Electronics Co., LTD.	Granted
1181	FI 2713618	FI	Samsung Electronics Co., LTD.	Granted
1182	FI 2712200	FI	Samsung Electronics Co., LTD.	Granted
1183	2640076	FR	Samsung Electronics Co., LTD.	Granted

1184	FR 2712198	FR	Samsung Electronics Co., LTD.	Granted
1185	FR 2713617	FR	Samsung Electronics Co., LTD.	Granted
1186	FR 2713618	FR	Samsung Electronics Co., LTD.	Granted
1187	FR 2712200	FR	Samsung Electronics Co., LTD.	Granted
1188	2640076	GB	Samsung Electronics Co., LTD.	Granted
1189	GB 2712198	GB	Samsung Electronics Co., LTD.	Granted
1190	GB 2713617	GB	Samsung Electronics Co., LTD.	Granted
1191	GB 2713618	GB	Samsung Electronics Co., LTD.	Granted
1192	GB 2712200	GB	Samsung Electronics Co., LTD.	Granted
1193	2640076	GR	Samsung Electronics Co., LTD.	Granted
1194	GR 2712198	GR	Samsung Electronics Co., LTD.	Granted
1195	GR 2713617	GR	Samsung Electronics Co., LTD.	Granted
1196	GR 2713618	GR	Samsung Electronics Co., LTD.	Granted
1197	GR 2712200	GR	Samsung Electronics Co., LTD.	Granted
1198	2640076	HR	Samsung Electronics Co., LTD.	Granted
1199	HR 2712198	HR	Samsung Electronics Co., LTD.	Granted
1200	HR 2713617	HR	Samsung Electronics Co., LTD.	Granted
1201	HR 2713618	HR	Samsung Electronics Co., LTD.	Granted
1202	HR 2712200	HR	Samsung Electronics Co., LTD.	Granted
1203	2640076	HU	Samsung Electronics Co., LTD.	Granted
1204	HU 2712198	HU	Samsung Electronics Co., LTD.	Granted
1205	HU 2713617	HU	Samsung Electronics Co., LTD.	Granted
1206	HU 2713618	HU	Samsung Electronics Co., LTD.	Granted
1207	HU 2712200	HU	Samsung Electronics Co., LTD.	Granted
1208	2640076	IE	Samsung Electronics Co., LTD.	Granted
1209	IE 2712198	IE	Samsung Electronics Co., LTD.	Granted
1210	IE 2713617	IE	Samsung Electronics Co., LTD.	Granted
1211	IE 2713618	IE	Samsung Electronics Co., LTD.	Granted
1212	IE 2712200	IE	Samsung Electronics Co., LTD.	Granted
1213	2640076	IS	Samsung Electronics Co., LTD.	Granted
1214	IS 2712198	IS	Samsung Electronics Co., LTD.	Granted
1215	IS 2713617	IS	Samsung Electronics Co., LTD.	Granted
1216	IS 2713618	IS	Samsung Electronics Co., LTD.	Granted
1217	IS 2712200	IS	Samsung Electronics Co., LTD.	Granted
1218	2640076	IT	Samsung Electronics Co., LTD.	Granted

1219	IT 2712198	IT	Samsung Electronics Co., LTD.	Granted
1220	IT 2713617	IT	Samsung Electronics Co., LTD.	Granted
1221	IT 2713618	IT	Samsung Electronics Co., LTD.	Granted
1222	IT 2712200	IT	Samsung Electronics Co., LTD.	Granted
1223	KR 1464538	KR	Samsung Electronics Co., LTD.	Granted
1224	P20150086152	KR	Samsung Electronics Co., LTD.	Pending
1225	2640076	LI	Samsung Electronics Co., LTD.	Granted
1226	LI 2712198	LI	Samsung Electronics Co., LTD.	Granted
1227	LI 2713617	LI	Samsung Electronics Co., LTD.	Granted
1228	LI 2713618	LI	Samsung Electronics Co., LTD.	Granted
1229	LI 2712200	LI	Samsung Electronics Co., LTD.	Granted
1230	2640076	LT	Samsung Electronics Co., LTD.	Granted
1231	LT 2712198	LT	Samsung Electronics Co., LTD.	Granted
1232	LT 2713617	LT	Samsung Electronics Co., LTD.	Granted
1233	LT 2713618	LT	Samsung Electronics Co., LTD.	Granted
1234	LT 2712200	LT	Samsung Electronics Co., LTD.	Granted
1235	2640076	LU	Samsung Electronics Co., LTD.	Granted
1236	LU 2712198	LU	Samsung Electronics Co., LTD.	Granted
1237	LU 2713617	LU	Samsung Electronics Co., LTD.	Granted
1238	LU 2713618	LU	Samsung Electronics Co., LTD.	Granted
1239	LU 2712200	LU	Samsung Electronics Co., LTD.	Granted
1240	2640076	LV	Samsung Electronics Co., LTD.	Granted
1241	LV 2712198	LV	Samsung Electronics Co., LTD.	Granted
1242	LV 2713617	LV	Samsung Electronics Co., LTD.	Granted
1243	LV 2713618	LV	Samsung Electronics Co., LTD.	Granted
1244	LV 2712200	LV	Samsung Electronics Co., LTD.	Granted
1245	2640076	MC	Samsung Electronics Co., LTD.	Granted
1246	MC 2712198	MC	Samsung Electronics Co., LTD.	Granted
1247	MC 2713617	MC	Samsung Electronics Co., LTD.	Granted
1248	MC 2713618	MC	Samsung Electronics Co., LTD.	Granted
1249	MC 2712200	MC	Samsung Electronics Co., LTD.	Granted
1250	2640076	MK	Samsung Electronics Co., LTD.	Granted
1251	MK 2712198	MK	Samsung Electronics Co., LTD.	Granted
1252	MK 2713617	MK	Samsung Electronics Co., LTD.	Granted
1253	MK 2713618	MK	Samsung Electronics Co., LTD.	Granted

1254	MK 2712200	MK	Samsung Electronics Co., LTD.	Granted
1255	2640076	MT	Samsung Electronics Co., LTD.	Granted
1256	MT 2712198	MT	Samsung Electronics Co., LTD.	Granted
1257	MT 2713617	MT	Samsung Electronics Co., LTD.	Granted
1258	MT 2713618	MT	Samsung Electronics Co., LTD.	Granted
1259	MT 2712200	MT	Samsung Electronics Co., LTD.	Granted
1260	2640076	NL	Samsung Electronics Co., LTD.	Granted
1261	NL 2712198	NL	Samsung Electronics Co., LTD.	Granted
1262	NL 2713617	NL	Samsung Electronics Co., LTD.	Granted
1263	NL 2713618	NL	Samsung Electronics Co., LTD.	Granted
1264	NL 2712200	NL	Samsung Electronics Co., LTD.	Granted
1265	2640076	NO	Samsung Electronics Co., LTD.	Granted
1266	NO 2712198	NO	Samsung Electronics Co., LTD.	Granted
1267	NO 2713617	NO	Samsung Electronics Co., LTD.	Granted
1268	NO 2713618	NO	Samsung Electronics Co., LTD.	Granted
1269	NO 2712200	NO	Samsung Electronics Co., LTD.	Granted
1270	2640076	PL	Samsung Electronics Co., LTD.	Granted
1271	PL 2712198	PL	Samsung Electronics Co., LTD.	Granted
1272	PL 2713617	PL	Samsung Electronics Co., LTD.	Granted
1273	PL 2713618	PL	Samsung Electronics Co., LTD.	Granted
1274	PL 2712200	PL	Samsung Electronics Co., LTD.	Granted
1275	2640076	PT	Samsung Electronics Co., LTD.	Granted
1276	PT 2712198	PT	Samsung Electronics Co., LTD.	Granted
1277	PT 2713617	PT	Samsung Electronics Co., LTD.	Granted
1278	PT 2713618	PT	Samsung Electronics Co., LTD.	Granted
1279	PT 2712200	PT	Samsung Electronics Co., LTD.	Granted
1280	2640076	RO	Samsung Electronics Co., LTD.	Granted
1281	RO 2712198	RO	Samsung Electronics Co., LTD.	Granted
1282	RO 2713617	RO	Samsung Electronics Co., LTD.	Granted
1283	RO 2713618	RO	Samsung Electronics Co., LTD.	Granted
1284	RO 2712200	RO	Samsung Electronics Co., LTD.	Granted
1285	2640076	SE	Samsung Electronics Co., LTD.	Granted
1286	SE 2712198	SE	Samsung Electronics Co., LTD.	Granted
1287	SE 2713617	SE	Samsung Electronics Co., LTD.	Granted
1288	SE 2713618	SE	Samsung Electronics Co., LTD.	Granted

1289	SE 2712200	SE	Samsung Electronics Co., LTD.	Granted
1290	2640076	SI	Samsung Electronics Co., LTD.	Granted
1291	SI 2712198	SI	Samsung Electronics Co., LTD.	Granted
1292	SI 2713617	SI	Samsung Electronics Co., LTD.	Granted
1293	SI 2713618	SI	Samsung Electronics Co., LTD.	Granted
1294	SI 2712200	SI	Samsung Electronics Co., LTD.	Granted
1295	2640076	SK	Samsung Electronics Co., LTD.	Granted
1296	SK 2712198	SK	Samsung Electronics Co., LTD.	Granted
1297	SK 2713617	SK	Samsung Electronics Co., LTD.	Granted
1298	SK 2713618	SK	Samsung Electronics Co., LTD.	Granted
1299	SK 2712200	SK	Samsung Electronics Co., LTD.	Granted
1300	2640076	SM	Samsung Electronics Co., LTD.	Granted
1301	SM 2712198	SM	Samsung Electronics Co., LTD.	Granted
1302	SM 2713617	SM	Samsung Electronics Co., LTD.	Granted
1303	SM 2713618	SM	Samsung Electronics Co., LTD.	Granted
1304	SM 2712200	SM	Samsung Electronics Co., LTD.	Granted
1305	2640076	TR	Samsung Electronics Co., LTD.	Granted
1306	TR 2712198	TR	Samsung Electronics Co., LTD.	Granted
1307	TR 2713617	TR	Samsung Electronics Co., LTD.	Granted
1308	TR 2713618	TR	Samsung Electronics Co., LTD.	Granted
1309	TR 2712200	TR	Samsung Electronics Co., LTD.	Granted
1310	US13/002398	US	Samsung Electronics Co., LTD.	Pending
1311	US 8879626	US	Samsung Electronics Co., LTD.	Granted
1312	US 8824549	US	Samsung Electronics Co., LTD.	Granted
1313	US 8902979	US	Samsung Electronics Co., LTD.	Granted
1314	US 8837590	US	Samsung Electronics Co., LTD.	Granted
1315	US 9118913	US	Samsung Electronics Co., LTD.	Granted
1316	CN ZL201080034035.7	CN	Samsung Electronics Co., LTD.	Granted
1317	201410841179	CN	Samsung Electronics Co., LTD.	Pending
1318	201410840949	CN	Samsung Electronics Co., LTD.	Pending
1319	CN ZL201410843880.9	CN	Samsung Electronics Co., LTD.	Granted
1320	201410840827	CN	Samsung Electronics Co., LTD.	Pending
1321	201410841108	CN	Samsung Electronics Co., LTD.	Pending
1322	201410841773	CN	Samsung Electronics Co., LTD.	Pending
1323	10802494	EP	Samsung Electronics Co., LTD.	Pending



1324	15161953	EP	Samsung Electronics Co., LTD.	Pending
1325	15161957	EP	Samsung Electronics Co., LTD.	Pending
1326	15161957	EP	Samsung Electronics Co., LTD.	Pending
1327	15161961	EP	Samsung Electronics Co., LTD.	Pending
1328	KR 1483750	KR	Samsung Electronics Co., LTD.	Granted
1329	P20150006116	KR	Samsung Electronics Co., LTD.	Pending
1330	US8768081	US	Samsung Electronics Co., LTD.	Granted
1331	US 8885958	US	Samsung Electronics Co., LTD.	Granted
1332	US 9131231	US	Samsung Electronics Co., LTD.	Granted
1333	US 9137534	US	Samsung Electronics Co., LTD.	Granted
1334	US 9131232	US	Samsung Electronics Co., LTD.	Granted
1335	US14/802849	US	Samsung Electronics Co., LTD.	Pending
1336	BR1120120032453	BR	Samsung Electronics Co., LTD.	Pending
1337	BR1220150138868	BR	Samsung Electronics Co., LTD.	Pending
1338	BR1220150138884	BR	Samsung Electronics Co., LTD.	Pending
1339	BR1220150138930	BR	Samsung Electronics Co., LTD.	Pending
1340	BR1220150138817	BR	Samsung Electronics Co., LTD.	Pending
1341	2768691	CA	Samsung Electronics Co., LTD.	Pending
1342	2889729	CA	Samsung Electronics Co., LTD.	Pending
1343	2889737	CA	Samsung Electronics Co., LTD.	Pending
1344	10808398	EP	Samsung Electronics Co., LTD.	Pending
1345	15166148	EP	Samsung Electronics Co., LTD.	Pending
1346	15166149	EP	Samsung Electronics Co., LTD.	Pending
1347	530/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1348	1223/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1349	1224/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1350	1225/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1351	1226/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1352	2015-97948	JP	Samsung Electronics Co., LTD.	Pending
1353	P20160058783	KR	Samsung Electronics Co., LTD.	Pending
1354	P20160058785	KR	Samsung Electronics Co., LTD.	Pending
1355	2014105279	RU	Samsung Electronics Co., LTD.	Pending
1356	2014105280	RU	Samsung Electronics Co., LTD.	Pending
1357	2014105195	RU	Samsung Electronics Co., LTD.	Pending
1358	2014105194	RU	Samsung Electronics Co., LTD.	Pending

1359	2014105190	RU	Samsung Electronics Co., LTD.	Pending
1360	2014105189	RU	Samsung Electronics Co., LTD.	Pending
1361	US 9148665	US	Samsung Electronics Co., LTD.	Granted
1362	US14/177272	US	Samsung Electronics Co., LTD.	Pending
1363	US14/177267	US	Samsung Electronics Co., LTD.	Pending
1364	US14/177074	US	Samsung Electronics Co., LTD.	Pending
1365	US14/177280	US	Samsung Electronics Co., LTD.	Pending
1366	US14/177292	US	Samsung Electronics Co., LTD.	Pending
1367	US14/177286	US	Samsung Electronics Co., LTD.	Pending
1368	US14/719629	US	Samsung Electronics Co., LTD.	Pending
1369	US14/719872	US	Samsung Electronics Co., LTD.	Pending
1370	US14/719689	US	Samsung Electronics Co., LTD.	Pending
1371	US14/720001	US	Samsung Electronics Co., LTD.	Pending
1372	BR1120120022440	BR	Samsung Electronics Co., LTD.	Pending
1373	CA 2768693	CA	Samsung Electronics Co., LTD.	Granted
1374	CA 2857833	CA	Samsung Electronics Co., LTD.	Granted
1375	2894589	CA	Samsung Electronics Co., LTD.	Pending
1376	2896017	CA	Samsung Electronics Co., LTD.	Pending
1377	2896087	CA	Samsung Electronics Co., LTD.	Pending
1378	201510002361	CN	Samsung Electronics Co., LTD.	Pending
1379	201510170531.X	CN	Samsung Electronics Co., LTD.	Pending
1380	201510171193	CN	Samsung Electronics Co., LTD.	Pending
1381	201510169455	CN	Samsung Electronics Co., LTD.	Pending
1382	10808402	EP	Samsung Electronics Co., LTD.	Pending
1383	15168670	EP	Samsung Electronics Co., LTD.	Pending
1384	15168652	EP	Samsung Electronics Co., LTD.	Pending
1385	15168652	EP	Samsung Electronics Co., LTD.	Pending
1386	15168653	EP	Samsung Electronics Co., LTD.	Pending
1387	584/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1388	1237/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1389	1238//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1390	1239//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1391	1240//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1392	1241//MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1393	JP 5746170	JP	Samsung Electronics Co., LTD.	Granted

1394	JP 5778367	JP	Samsung Electronics Co., LTD.	Granted
1395	JP 5778368	JP	Samsung Electronics Co., LTD.	Granted
1396	KR 1456498	KR	Samsung Electronics Co., LTD.	Granted
1397	P20150094926	KR	Samsung Electronics Co., LTD.	Pending
1398	MX 315662	MX	Samsung Electronics Co., LTD.	Granted
1399	MX 322910	MX	Samsung Electronics Co., LTD.	Granted
1400	MX 323151	MX	Samsung Electronics Co., LTD.	Granted
1401	MX 324108	MX	Samsung Electronics Co., LTD.	Granted
1402	MX 320435	MX	Samsung Electronics Co., LTD.	Granted
1403	RU 2526861	RU	Samsung Electronics Co., LTD.	Granted
1404	2013139143	RU	Samsung Electronics Co., LTD.	Pending
1405	2013139146	RU	Samsung Electronics Co., LTD.	Pending
1406	2014108445	RU	Samsung Electronics Co., LTD.	Pending
1407	2014108444	RU	Samsung Electronics Co., LTD.	Pending
1408	US 8824551	US	Samsung Electronics Co., LTD.	Granted
1409	US 8831097	US	Samsung Electronics Co., LTD.	Granted
1410	US 8831098	US	Samsung Electronics Co., LTD.	Granted
1411	US8817877	US	Samsung Electronics Co., LTD.	Granted
1412	US 8897363	US	Samsung Electronics Co., LTD.	Granted
1413	AU 2010285492	AU	Samsung Electronics Co., LTD.	Granted
1414	AU 2013202078	AU	Samsung Electronics Co., LTD.	Granted
1415	AU 2015202119	AU	Samsung Electronics Co., LTD.	Granted
1416	AU 2015202118	AU	Samsung Electronics Co., LTD.	Granted
1417	BR1120120016873	BR	Samsung Electronics Co., LTD.	Pending
1418	1220130197230	BR	Samsung Electronics Co., LTD.	Pending
1419	BR1220150217440	BR	Samsung Electronics Co., LTD.	Pending
1420	BR1220150217474	BR	Samsung Electronics Co., LTD.	Pending
1421	BR1220150217458	BR	Samsung Electronics Co., LTD.	Pending
1422	2768694	CA	Samsung Electronics Co., LTD.	Pending
1423	CA 2823885	CA	Samsung Electronics Co., LTD.	Granted
1424	2888489	CA	Samsung Electronics Co., LTD.	Pending
1425	2888490	CA	Samsung Electronics Co., LTD.	Pending
1426	2888495	CA	Samsung Electronics Co., LTD.	Pending
1427	CN ZL201080036788.1	CN	Samsung Electronics Co., LTD.	Granted
1428	201310088382	CN	Samsung Electronics Co., LTD.	Pending

1429	201510193956	CN	Samsung Electronics Co., LTD.	Pending
1430	201510193915	CN	Samsung Electronics Co., LTD.	Pending
1431	201510192249	CN	Samsung Electronics Co., LTD.	Pending
1432	201510193969.X	CN	Samsung Electronics Co., LTD.	Pending
1433	10810148	EP	Samsung Electronics Co., LTD.	Pending
1434	13185302	EP	Samsung Electronics Co., LTD.	Pending
1435	15163268	EP	Samsung Electronics Co., LTD.	Pending
1436	15163276	EP	Samsung Electronics Co., LTD.	Pending
1437	15163277	EP	Samsung Electronics Co., LTD.	Pending
1438	W-00201200065	ID	Samsung Electronics Co., LTD.	Pending
1439	ID P000039172	ID	Samsung Electronics Co., LTD.	Granted
1440	P-00201404015	ID	Samsung Electronics Co., LTD.	Pending
1441	P-00201404014	ID	Samsung Electronics Co., LTD.	Pending
1442	P-00201500383	ID	Samsung Electronics Co., LTD.	Pending
1443	P-00201500385	ID	Samsung Electronics Co., LTD.	Pending
1444	528/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1445	679/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1446	1078/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1447	1077/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1448	1076/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1449	JP 5650742	JP	Samsung Electronics Co., LTD.	Granted
1450	JP 5620554	JP	Samsung Electronics Co., LTD.	Granted
1451	KR 1510108	KR	Samsung Electronics Co., LTD.	Granted
1452	MX 320458	MX	Samsung Electronics Co., LTD.	Granted
1453	PI2012000404	MY	Samsung Electronics Co., LTD.	Pending
1454	PI 2014001381	MY	Samsung Electronics Co., LTD.	Pending
1455	PI2014001539	MY	Samsung Electronics Co., LTD.	Pending
1456	PI2014001541	MY	Samsung Electronics Co., LTD.	Pending
1457	PI2015000869	MY	Samsung Electronics Co., LTD.	Pending
1458	RU 2517193	RU	Samsung Electronics Co., LTD.	Granted
1459	RU 2517293	RU	Samsung Electronics Co., LTD.	Granted
1460	RU 2546619	RU	Samsung Electronics Co., LTD.	Granted
1461	2014122343	RU	Samsung Electronics Co., LTD.	Pending
1462	2015101791	RU	Samsung Electronics Co., LTD.	Pending
1463	2015101795	RU	Samsung Electronics Co., LTD.	Pending

1464	2015129684	RU	Samsung Electronics Co., LTD.	Pending
1465	US 8989266	US	Samsung Electronics Co., LTD.	Granted
1466	US8787458	US	Samsung Electronics Co., LTD.	Granted
1467	US 9036703	US	Samsung Electronics Co., LTD.	Granted
1468	US 9071839	US	Samsung Electronics Co., LTD.	Granted
1469	US 9049458	US	Samsung Electronics Co., LTD.	Granted
1470	1/2012/00127	VN	Samsung Electronics Co., LTD.	Pending
1471	1-2013-00749	VN	Samsung Electronics Co., LTD.	Pending
1472	1-2014-01750	VN	Samsung Electronics Co., LTD.	Pending
1473	1-2014-01749	VN	Samsung Electronics Co., LTD.	Pending
1474	1-2015-02521	VN	Samsung Electronics Co., LTD.	Pending
1475	ZA 2012/01153	ZA	Samsung Electronics Co., LTD.	Granted
1476	ZA 2013/04970	ZA	Samsung Electronics Co., LTD.	Granted
1477	ZA 2014/05219	ZA	Samsung Electronics Co., LTD.	Granted
1478	2014/05219	ZA	Samsung Electronics Co., LTD.	Pending
1479	ZA 2014/05220	ZA	Samsung Electronics Co., LTD.	Granted
1480	2014/05220	ZA	Samsung Electronics Co., LTD.	Pending
1481	2015/03353	ZA	Samsung Electronics Co., LTD.	Pending
1482	2015/03354	ZA	Samsung Electronics Co., LTD.	Pending
1483	AU 2010283113	AU	Samsung Electronics Co., LTD.	Granted
1484	AU 2013201911	AU	Samsung Electronics Co., LTD.	Granted
1485	AU 2013201883	AU	Samsung Electronics Co., LTD.	Granted
1486	BR1120120017578	BR	Samsung Electronics Co., LTD.	Pending
1487	1220130197249	BR	Samsung Electronics Co., LTD.	Pending
1488	1220130197257	BR	Samsung Electronics Co., LTD.	Pending
1489	CA 2768181	CA	Samsung Electronics Co., LTD.	Granted
1490	CA 2815893	CA	Samsung Electronics Co., LTD.	Granted
1491	CA 2815777	CA	Samsung Electronics Co., LTD.	Granted
1492	2877241	CA	Samsung Electronics Co., LTD.	Pending
1493	CA 2877255	CA	Samsung Electronics Co., LTD.	Granted
1494	CN ZL201080036020.4	CN	Samsung Electronics Co., LTD.	Granted
1495	201310092700	CN	Samsung Electronics Co., LTD.	Pending
1496	201310097477	CN	Samsung Electronics Co., LTD.	Pending
1497	CN ZL201510005662.2	CN	Samsung Electronics Co., LTD.	Granted
1498	201510006252.X	CN	Samsung Electronics Co., LTD.	Pending

1499	CN ZL201510005604.X	CN	Samsung Electronics Co., LTD.	Granted
1500	10808383	EP	Samsung Electronics Co., LTD.	Pending
1501	13167744	EP	Samsung Electronics Co., LTD.	Pending
1502	13167745	EP	Samsung Electronics Co., LTD.	Pending
1503	15150191	EP	Samsung Electronics Co., LTD.	Pending
1504	15150192	EP	Samsung Electronics Co., LTD.	Pending
1505	W-00201200954	ID	Samsung Electronics Co., LTD.	Pending
1506	W-00201302175	ID	Samsung Electronics Co., LTD.	Pending
1507	ID P000039998	ID	Samsung Electronics Co., LTD.	Granted
1508	W-00201304145	ID	Samsung Electronics Co., LTD.	Pending
1509	P-00201500449	ID	Samsung Electronics Co., LTD.	Pending
1510	P-00201500448	ID	Samsung Electronics Co., LTD.	Pending
1511	585/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1512	939/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1513	940/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1514	400/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1515	401/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1516	402/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1517	JP 5746169	JP	Samsung Electronics Co., LTD.	Granted
1518	JP 5753327	JP	Samsung Electronics Co., LTD.	Granted
1519	JP 5753328	JP	Samsung Electronics Co., LTD.	Granted
1520	2015-095215	JP	Samsung Electronics Co., LTD.	Pending
1521	2015-095216	JP	Samsung Electronics Co., LTD.	Pending
1522	KR 1474756	KR	Samsung Electronics Co., LTD.	Granted
1523	P20160078117	KR	Samsung Electronics Co., LTD.	Pending
1524	MX 315664	MX	Samsung Electronics Co., LTD.	Granted
1525	MX 322644	MX	Samsung Electronics Co., LTD.	Granted
1526	MX 320217	MX	Samsung Electronics Co., LTD.	Granted
1527	MX 320207	MX	Samsung Electronics Co., LTD.	Granted
1528	MX 328501	MX	Samsung Electronics Co., LTD.	Granted
1529	MY 153787A	MY	Samsung Electronics Co., LTD.	Granted
1530	RU 2543519	RU	Samsung Electronics Co., LTD.	Granted
1531	RU 2510945	RU	Samsung Electronics Co., LTD.	Granted
1532	RU 2514777	RU	Samsung Electronics Co., LTD.	Granted
1533	RU 2551794	RU	Samsung Electronics Co., LTD.	Granted

1534	US8792741	US	Samsung Electronics Co., LTD.	Granted
1535	US 8842921	US	Samsung Electronics Co., LTD.	Granted
1536	US 8792737	US	Samsung Electronics Co., LTD.	Granted
1537	US 8971650	US	Samsung Electronics Co., LTD.	Granted
1538	1-2012-00620	VN	Samsung Electronics Co., LTD.	Pending
1539	1-2013-00799	VN	Samsung Electronics Co., LTD.	Pending
1540	1-2013-00800	VN	Samsung Electronics Co., LTD.	Pending
1541	1-2015-00046	VN	Samsung Electronics Co., LTD.	Pending
1542	1-2015-00045	VN	Samsung Electronics Co., LTD.	Pending
1543	2012/01157	ZA	Samsung Electronics Co., LTD.	Pending
1544	ZA 2013/04973	ZA	Samsung Electronics Co., LTD.	Granted
1545	2013/04974	ZA	Samsung Electronics Co., LTD.	Pending
1546	2015/02023	ZA	Samsung Electronics Co., LTD.	Pending
1547	2015/02025	ZA	Samsung Electronics Co., LTD.	Pending
1548	AU 2010313967	AU	Samsung Electronics Co., LTD.	Granted
1549	2015201330	AU	Samsung Electronics Co., LTD.	Pending
1550	2015201329	AU	Samsung Electronics Co., LTD.	Pending
1551	1120120097229	BR	Samsung Electronics Co., LTD.	Pending
1552	2777587	CA	Samsung Electronics Co., LTD.	Pending
1553	2883978	CA	Samsung Electronics Co., LTD.	Pending
1554	2883923	CA	Samsung Electronics Co., LTD.	Pending
1555	2883913	CA	Samsung Electronics Co., LTD.	Pending
1556	2883920	CA	Samsung Electronics Co., LTD.	Pending
1557	CN ZL201080049289.6	CN	Samsung Electronics Co., LTD.	Granted
1558	201510148781	CN	Samsung Electronics Co., LTD.	Pending
1559	201510150297	CN	Samsung Electronics Co., LTD.	Pending
1560	201510149522	CN	Samsung Electronics Co., LTD.	Pending
1561	201510149195	CN	Samsung Electronics Co., LTD.	Pending
1562	201510149595	CN	Samsung Electronics Co., LTD.	Pending
1563	10827104	EP	Samsung Electronics Co., LTD.	Pending
1564	15158640	EP	Samsung Electronics Co., LTD.	Pending
1565	15158612	EP	Samsung Electronics Co., LTD.	Pending
1566	15158614	EP	Samsung Electronics Co., LTD.	Pending
1567	15158615	EP	Samsung Electronics Co., LTD.	Pending
1568	W-00201202066	ID	Samsung Electronics Co., LTD.	Pending

1569	P00201501864	ID	Samsung Electronics Co., LTD.	Pending
1570	P00201501866	ID	Samsung Electronics Co., LTD.	Pending
1571	P00201501867	ID	Samsung Electronics Co., LTD.	Pending
1572	P00201501868	ID	Samsung Electronics Co., LTD.	Pending
1573	1264/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1574	742/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1575	745/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1576	741/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1577	740/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1578	JP 5711247	JP	Samsung Electronics Co., LTD.	Granted
1579	KR 1457894	KR	Samsung Electronics Co., LTD.	Granted
1580	P20160063729	KR	Samsung Electronics Co., LTD.	Pending
1581	MX 323424	MX	Samsung Electronics Co., LTD.	Granted
1582	PI2012001789	MY	Samsung Electronics Co., LTD.	Pending
1583	PI2015000598	MY	Samsung Electronics Co., LTD.	Pending
1584	PI2015000597	MY	Samsung Electronics Co., LTD.	Pending
1585	PI2015000596	MY	Samsung Electronics Co., LTD.	Pending
1586	PI2015000595	MY	Samsung Electronics Co., LTD.	Pending
1587	RU 2493669	RU	Samsung Electronics Co., LTD.	Granted
1588	2015108338	RU	Samsung Electronics Co., LTD.	Pending
1589	2015108351	RU	Samsung Electronics Co., LTD.	Pending
1590	2015108352	RU	Samsung Electronics Co., LTD.	Pending
1591	US8811479	US	Samsung Electronics Co., LTD.	Granted
1592	US14/323424	US	Samsung Electronics Co., LTD.	Pending
1593	US14/619299	US	Samsung Electronics Co., LTD.	Pending
1594	US14/619323	US	Samsung Electronics Co., LTD.	Pending
1595	US14/619187	US	Samsung Electronics Co., LTD.	Pending
1596	US14/619160	US	Samsung Electronics Co., LTD.	Pending
1597	1-2012-01480	VN	Samsung Electronics Co., LTD.	Pending
1598	1-2015-00827	VN	Samsung Electronics Co., LTD.	Pending
1599	1-2015-00825	VN	Samsung Electronics Co., LTD.	Pending
1600	1-2015-00826	VN	Samsung Electronics Co., LTD.	Pending
1601	1-2015-00824	VN	Samsung Electronics Co., LTD.	Pending
1602	2015/04997	ZA	Samsung Electronics Co., LTD.	Pending
1603	2015/04998	ZA	Samsung Electronics Co., LTD.	Pending



1604	2015/04999	ZA	Samsung Electronics Co., LTD.	Pending
1605	2015/05000	ZA	Samsung Electronics Co., LTD.	Pending
1606	AU 2010313997	AU	Samsung Electronics Co., LTD.	Granted
1607	AU 2013201912	AU	Samsung Electronics Co., LTD.	Granted
1608	AU 2013201913	AU	Samsung Electronics Co., LTD.	Granted
1609	AU 2014203052	AU	Samsung Electronics Co., LTD.	Granted
1610	112012009766-0	BR	Samsung Electronics Co., LTD.	Pending
1611	1220130205527	BR	Samsung Electronics Co., LTD.	Pending
1612	1220130205535	BR	Samsung Electronics Co., LTD.	Pending
1613	BR1220150240042	BR	Samsung Electronics Co., LTD.	Pending
1614	BR1220150240026	BR	Samsung Electronics Co., LTD.	Pending
1615	CA 2778534	CA	Samsung Electronics Co., LTD.	Granted
1616	CA 2818572	CA	Samsung Electronics Co., LTD.	Granted
1617	CA 2818587	CA	Samsung Electronics Co., LTD.	Granted
1618	CA 2888396	CA	Samsung Electronics Co., LTD.	Granted
1619	CN ZL201080049482.X	CN	Samsung Electronics Co., LTD.	Granted
1620	CN ZL201310088343.3	CN	Samsung Electronics Co., LTD.	Granted
1621	201310092752	CN	Samsung Electronics Co., LTD.	Pending
1622	CN ZL201510005386.X	CN	Samsung Electronics Co., LTD.	Granted
1623	CN ZL201510006815.5	CN	Samsung Electronics Co., LTD.	Granted
1624	201510053831.X	CN	Samsung Electronics Co., LTD.	Pending
1625	201510161725	CN	Samsung Electronics Co., LTD.	Pending
1626	201510161073	CN	Samsung Electronics Co., LTD.	Pending
1627	10827135	EP	Samsung Electronics Co., LTD.	Pending
1628	13167711	EP	Samsung Electronics Co., LTD.	Pending
1629	13167730	EP	Samsung Electronics Co., LTD.	Pending
1630	14157334	EP	Samsung Electronics Co., LTD.	Pending
1631	14157339	EP	Samsung Electronics Co., LTD.	Pending
1632	14157340	EP	Samsung Electronics Co., LTD.	Pending
1633	14157344	EP	Samsung Electronics Co., LTD.	Pending
1634	16163927	EP	Samsung Electronics Co., LTD.	Pending
1635	W-00201202112	ID	Samsung Electronics Co., LTD.	Pending
1636	W-00201301944	ID	Samsung Electronics Co., LTD.	Pending
1637	W-00201301945	ID	Samsung Electronics Co., LTD.	Pending
1638	P00201502615	ID	Samsung Electronics Co., LTD.	Pending

1639	P00201502609	ID	Samsung Electronics Co., LTD.	Pending
1640	P-00201506298	ID	Samsung Electronics Co., LTD.	Pending
1641	4651/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
1642	2362/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
1643	2361/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
1644	2193/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1645	2191/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1646	2192/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1647	JP 5711248	JP	Samsung Electronics Co., LTD.	Granted
1648	JP 5687310	JP	Samsung Electronics Co., LTD.	Granted
1649	JP 5639687	JP	Samsung Electronics Co., LTD.	Granted
1650	JP 5727114	JP	Samsung Electronics Co., LTD.	Granted
1651	JP 5727115	JP	Samsung Electronics Co., LTD.	Granted
1652	KR 1452713	KR	Samsung Electronics Co., LTD.	Granted
1653	P20140148721	KR	Samsung Electronics Co., LTD.	Pending
1654	MX 319564	MX	Samsung Electronics Co., LTD.	Granted
1655	MX 319562	MX	Samsung Electronics Co., LTD.	Granted
1656	MX 319560	MX	Samsung Electronics Co., LTD.	Granted
1657	MX 319559	MX	Samsung Electronics Co., LTD.	Granted
1658	MX 319561	MX	Samsung Electronics Co., LTD.	Granted
1659	MX 323296	MX	Samsung Electronics Co., LTD.	Granted
1660	PI2012001841	MY	Samsung Electronics Co., LTD.	Pending
1661	PI2013003184	MY	Samsung Electronics Co., LTD.	Pending
1662	PI2013003183	MY	Samsung Electronics Co., LTD.	Pending
1663	PI2015001487	MY	Samsung Electronics Co., LTD.	Pending
1664	PI2015001486	MY	Samsung Electronics Co., LTD.	Pending
1665	PI2015002232	MY	Samsung Electronics Co., LTD.	Pending
1666	2490815	RU	Samsung Electronics Co., LTD.	Granted
1667	2509436	RU	Samsung Electronics Co., LTD.	Granted
1668	2518635	RU	Samsung Electronics Co., LTD.	Granted
1669	2013119372	RU	Samsung Electronics Co., LTD.	Pending
1670	2013119400	RU	Samsung Electronics Co., LTD.	Pending
1671	2013119397	RU	Samsung Electronics Co., LTD.	Pending
1672	2013152955	RU	Samsung Electronics Co., LTD.	Pending
1673	US 8837840	US	Samsung Electronics Co., LTD.	Granted

1674	US8208742	US	Samsung Electronics Co., LTD.	Granted
1675	US 8582901	US	Samsung Electronics Co., LTD.	Granted
1676	US 8842926	US	Samsung Electronics Co., LTD.	Granted
1677	US 8842922	US	Samsung Electronics Co., LTD.	Granted
1678	1-2012-01514	VN	Samsung Electronics Co., LTD.	Pending
1679	1-2013-00797	VN	Samsung Electronics Co., LTD.	Pending
1680	1-2013-00798	VN	Samsung Electronics Co., LTD.	Pending
1681	1-2015-01392	VN	Samsung Electronics Co., LTD.	Pending
1682	1-2015-01393	VN	Samsung Electronics Co., LTD.	Pending
1683	1-2015-02743	VN	Samsung Electronics Co., LTD.	Pending
1684	ZA 2012/02670	ZA	Samsung Electronics Co., LTD.	Granted
1685	2013/04978	ZA	Samsung Electronics Co., LTD.	Granted
1686	2013/04979	ZA	Samsung Electronics Co., LTD.	Granted
1687	ZA 2014/06113	ZA	Samsung Electronics Co., LTD.	Granted
1688	ZA 2015/00338	ZA	Samsung Electronics Co., LTD.	Granted
1689	ZA 2015/00339	ZA	Samsung Electronics Co., LTD.	Granted
1690	AL 2629528	AL	Samsung Electronics Co., LTD.	Granted
1691	AT 2629528	AT	Samsung Electronics Co., LTD.	Granted
1692	AU 2010328813	AU	Samsung Electronics Co., LTD.	Granted
1693	AU 2013201503	AU	Samsung Electronics Co., LTD.	Granted
1694	AU 2013201504	AU	Samsung Electronics Co., LTD.	Granted
1695	BE 2629528	BE	Samsung Electronics Co., LTD.	Granted
1696	BG 2629528	BG	Samsung Electronics Co., LTD.	Granted
1697	11 2012 013871 5	BR	Samsung Electronics Co., LTD.	Pending
1698	1220130199535	BR	Samsung Electronics Co., LTD.	Pending
1699	1220130199527	BR	Samsung Electronics Co., LTD.	Pending
1700	2783786	CA	Samsung Electronics Co., LTD.	Pending
1701	2816467	CA	Samsung Electronics Co., LTD.	Pending
1702	CA 2876814	CA	Samsung Electronics Co., LTD.	Granted
1703	CH 2629528	CH	Samsung Electronics Co., LTD.	Granted
1704	CN 201080063102.8	CN	Samsung Electronics Co., LTD.	Granted
1705	201310091251	CN	Samsung Electronics Co., LTD.	Pending
1706	201510006878	CN	Samsung Electronics Co., LTD.	Pending
1707	201510007111.X	CN	Samsung Electronics Co., LTD.	Pending
1708	201510069836	CN	Samsung Electronics Co., LTD.	Pending

1709	201510192457	CN	Samsung Electronics Co., LTD.	Pending
1710	CY 2629528	CY	Samsung Electronics Co., LTD.	Granted
1711	CZ 2629528	CZ	Samsung Electronics Co., LTD.	Granted
1712	DE 2629528	DE	Samsung Electronics Co., LTD.	Granted
1713	DK 2629528	DK	Samsung Electronics Co., LTD.	Granted
1714	EE 2629528	EE	Samsung Electronics Co., LTD.	Granted
1715	10836204	EP	Samsung Electronics Co., LTD.	Pending
1716	13167741	EP	Samsung Electronics Co., LTD.	Pending
1717	15159951	EP	Samsung Electronics Co., LTD.	Pending
1718	15159953	EP	Samsung Electronics Co., LTD.	Pending
1719	ES 2629528	ES	Samsung Electronics Co., LTD.	Granted
1720	FI 2629528	FI	Samsung Electronics Co., LTD.	Granted
1721	FR 2629528	FR	Samsung Electronics Co., LTD.	Granted
1722	GB 2629528	GB	Samsung Electronics Co., LTD.	Granted
1723	GR 2629528	GR	Samsung Electronics Co., LTD.	Granted
1724	HR 2629528	HR	Samsung Electronics Co., LTD.	Granted
1725	HU 2629528	HU	Samsung Electronics Co., LTD.	Granted
1726	W-00201202678	ID	Samsung Electronics Co., LTD.	Pending
1727	W-00201303992	ID	Samsung Electronics Co., LTD.	Pending
1728	W-00201303994	ID	Samsung Electronics Co., LTD.	Pending
1729	P00201502612	ID	Samsung Electronics Co., LTD.	Pending
1730	P00201502613	ID	Samsung Electronics Co., LTD.	Pending
1731	IE 2629528	IE	Samsung Electronics Co., LTD.	Granted
1732	1687/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1733	929/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1734	930/MUMNP/2013	IN	Samsung Electronics Co., LTD.	Pending
1735	850/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1736	851/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1737	852/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1738	IS 2629528	IS	Samsung Electronics Co., LTD.	Granted
1739	IT 2629528	IT	Samsung Electronics Co., LTD.	Granted
1740	JP 5632515	JP	Samsung Electronics Co., LTD.	Granted
1741	JP 5632516	JP	Samsung Electronics Co., LTD.	Granted
1742	2016-105544	JP	Samsung Electronics Co., LTD.	Pending
1743	KR 1484280	KR	Samsung Electronics Co., LTD.	Granted

1744	P20140148722	KR	Samsung Electronics Co., LTD.	Pending
1745	P20150008765	KR	Samsung Electronics Co., LTD.	Pending
1746	LI 2629528	LI	Samsung Electronics Co., LTD.	Granted
1747	LT 2629528	LT	Samsung Electronics Co., LTD.	Granted
1748	LU 2629528	LU	Samsung Electronics Co., LTD.	Granted
1749	LV 2629528	LV	Samsung Electronics Co., LTD.	Granted
1750	MC 2629528	MC	Samsung Electronics Co., LTD.	Granted
1751	MK 2629528	MK	Samsung Electronics Co., LTD.	Granted
1752	MT 2629528	MT	Samsung Electronics Co., LTD.	Granted
1753	MX 316852	MX	Samsung Electronics Co., LTD.	Granted
1754	PI2012002568	MY	Samsung Electronics Co., LTD.	Pending
1755	PI2013003241	MY	Samsung Electronics Co., LTD.	Pending
1756	MY 155120-A	MY	Samsung Electronics Co., LTD.	Granted
1757	PI2015001427	MY	Samsung Electronics Co., LTD.	Pending
1758	PI2015001426	MY	Samsung Electronics Co., LTD.	Pending
1759	NL 2629528	NL	Samsung Electronics Co., LTD.	Granted
1760	NO 2629528	NO	Samsung Electronics Co., LTD.	Granted
1761	PL 2629528	PL	Samsung Electronics Co., LTD.	Granted
1762	PT 2629528	PT	Samsung Electronics Co., LTD.	Granted
1763	RO 2629528	RO	Samsung Electronics Co., LTD.	Granted
1764	SR 2629528	RS	Samsung Electronics Co., LTD.	Granted
1765	RU 2517404	RU	Samsung Electronics Co., LTD.	Granted
1766	RU 2517253	RU	Samsung Electronics Co., LTD.	Granted
1767	RU 2515226	RU	Samsung Electronics Co., LTD.	Granted
1768	SE 2629528	SE	Samsung Electronics Co., LTD.	Granted
1769	SI 2629528	SI	Samsung Electronics Co., LTD.	Granted
1770	SK 2629528	SK	Samsung Electronics Co., LTD.	Granted
1771	SM 2629528	SM	Samsung Electronics Co., LTD.	Granted
1772	TR 2629528	TR	Samsung Electronics Co., LTD.	Granted
1773	US 8938006	US	Samsung Electronics Co., LTD.	Granted
1774	US8780993	US	Samsung Electronics Co., LTD.	Granted
1775	US 8885725	US	Samsung Electronics Co., LTD.	Granted
1776	US 8885723	US	Samsung Electronics Co., LTD.	Granted
1777	US 8885724	US	Samsung Electronics Co., LTD.	Granted
1778	US15/016790	US	Samsung Electronics Co., LTD.	Pending

1779	VN 1-2012-01954	VN	Samsung Electronics Co., LTD.	Granted
1780	1-2013-00803	VN	Samsung Electronics Co., LTD.	Pending
1781	1-2013-00804	VN	Samsung Electronics Co., LTD.	Pending
1782	VN 1-2015-01763	VN	Samsung Electronics Co., LTD.	Granted
1783	1-2015-01763	VN	Samsung Electronics Co., LTD.	Pending
1784	VN 1-2015-01762	VN	Samsung Electronics Co., LTD.	Granted
1785	1-2015-01762	VN	Samsung Electronics Co., LTD.	Pending
1786	ZA 2013/04981	ZA	Samsung Electronics Co., LTD.	Granted
1787	2015/05589	ZA	Samsung Electronics Co., LTD.	Pending
1788	2015/05590	ZA	Samsung Electronics Co., LTD.	Pending
1789	1120120091786	BR	Samsung Electronics Co., LTD.	Pending
1790	BR122015021750-4	BR	Samsung Electronics Co., LTD.	Pending
1791	BR122015021748-2	BR	Samsung Electronics Co., LTD.	Pending
1792	BR122015021746-6	BR	Samsung Electronics Co., LTD.	Pending
1793	BR122015021751-2	BR	Samsung Electronics Co., LTD.	Pending
1794	CA 2777584	CA	Samsung Electronics Co., LTD.	Granted
1795	201510192459	CN	Samsung Electronics Co., LTD.	Pending
1796	201510192566	CN	Samsung Electronics Co., LTD.	Pending
1797	201510195311	CN	Samsung Electronics Co., LTD.	Pending
1798	201510195313	CN	Samsung Electronics Co., LTD.	Pending
1799	201510454366	CN	Samsung Electronics Co., LTD.	Pending
1800	10825221	EP	Samsung Electronics Co., LTD.	Pending
1801	14192865	EP	Samsung Electronics Co., LTD.	Pending
1802	15153236	EP	Samsung Electronics Co., LTD.	Pending
1803	15169005	EP	Samsung Electronics Co., LTD.	Pending
1804	15169004	EP	Samsung Electronics Co., LTD.	Pending
1805	1224/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1806	839/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1807	840/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1808	841/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1809	842/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1810	843/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1811	JP 5711244	JP	Samsung Electronics Co., LTD.	Granted
1812	KR 1457418	KR	Samsung Electronics Co., LTD.	Granted
1813	P20150052006	KR	Samsung Electronics Co., LTD.	Pending

1814	P20150052007	KR	Samsung Electronics Co., LTD.	Pending
1815	P20150052008	KR	Samsung Electronics Co., LTD.	Pending
1816	MX 323423	MX	Samsung Electronics Co., LTD.	Granted
1817	MX 326542	MX	Samsung Electronics Co., LTD.	Granted
1818	MX/a/2014/016033	MX	Samsung Electronics Co., LTD.	Pending
1819	RU 2509435	RU	Samsung Electronics Co., LTD.	Granted
1820	US8798159	US	Samsung Electronics Co., LTD.	Granted
1821	US 8897369	US	Samsung Electronics Co., LTD.	Granted
1822	US 8891632	US	Samsung Electronics Co., LTD.	Granted
1823	US 8891631	US	Samsung Electronics Co., LTD.	Granted
1824	US 8891618	US	Samsung Electronics Co., LTD.	Granted
1825	CN ZL201080063360.6	CN	Samsung Electronics Co., LTD.	Granted
1826	201510387296	CN	Samsung Electronics Co., LTD.	Pending
1827	201510388594	CN	Samsung Electronics Co., LTD.	Pending
1828	201510387983	CN	Samsung Electronics Co., LTD.	Pending
1829	201510388370	CN	Samsung Electronics Co., LTD.	Pending
1830	10836224	EP	Samsung Electronics Co., LTD.	Pending
1831	15174987	EP	Samsung Electronics Co., LTD.	Pending
1832	15174988	EP	Samsung Electronics Co., LTD.	Pending
1833	15174992	EP	Samsung Electronics Co., LTD.	Pending
1834	15174993	EP	Samsung Electronics Co., LTD.	Pending
1835	P20090121935	KR	Samsung Electronics Co., LTD.	Pending
1836	P20150015588	KR	Samsung Electronics Co., LTD.	Pending
1837	P20150052464	KR	Samsung Electronics Co., LTD.	Pending
1838	P20150105295	KR	Samsung Electronics Co., LTD.	Pending
1839	P20150105296	KR	Samsung Electronics Co., LTD.	Pending
1840	P20150105297	KR	Samsung Electronics Co., LTD.	Pending
1841	P20150105298	KR	Samsung Electronics Co., LTD.	Pending
1842	US14/849073	US	Samsung Electronics Co., LTD.	Pending
1843	US14/926883	US	Samsung Electronics Co., LTD.	Pending
1844	US14/926968	US	Samsung Electronics Co., LTD.	Pending
1845	US14/927025	US	Samsung Electronics Co., LTD.	Pending
1846	US14/927096	US	Samsung Electronics Co., LTD.	Pending
1847	2011205896	AU	Samsung Electronics Co., LTD.	Pending
1848	2013202014	AU	Samsung Electronics Co., LTD.	Pending

1849	AU 2014202994	AU	Samsung Electronics Co., LTD.	Granted
1850	11 2012 017408 8	BR	Samsung Electronics Co., LTD.	Pending
1851	1220130205519	BR	Samsung Electronics Co., LTD.	Pending
1852	BR1220150213690	BR	Samsung Electronics Co., LTD.	Pending
1853	BR1220150213673	BR	Samsung Electronics Co., LTD.	Pending
1854	BR1220150213703	BR	Samsung Electronics Co., LTD.	Pending
1855	CA 2828001	CA	Samsung Electronics Co., LTD.	Granted
1856	CA 2880465	CA	Samsung Electronics Co., LTD.	Granted
1857	2880472	CA	Samsung Electronics Co., LTD.	Pending
1858	2880256	CA	Samsung Electronics Co., LTD.	Pending
1859	201180014025	CN	Samsung Electronics Co., LTD.	Pending
1860	201410811995	CN	Samsung Electronics Co., LTD.	Pending
1861	201510178147	CN	Samsung Electronics Co., LTD.	Pending
1862	201510178594	CN	Samsung Electronics Co., LTD.	Pending
1863	201510245822	CN	Samsung Electronics Co., LTD.	Pending
1864	201510246253	CN	Samsung Electronics Co., LTD.	Pending
1865	11733108	EP	Samsung Electronics Co., LTD.	Pending
1866	13172421	EP	Samsung Electronics Co., LTD.	Pending
1867	15168134	EP	Samsung Electronics Co., LTD.	Pending
1868	15168135	EP	Samsung Electronics Co., LTD.	Pending
1869	15168137	EP	Samsung Electronics Co., LTD.	Pending
1870	W-00201203290	ID	Samsung Electronics Co., LTD.	Pending
1871	W-00201301703	ID	Samsung Electronics Co., LTD.	Pending
1872	P-00201503975	ID	Samsung Electronics Co., LTD.	Pending
1873	P-00201503977	ID	Samsung Electronics Co., LTD.	Pending
1874	P-00201503976	ID	Samsung Electronics Co., LTD.	Pending
1875	7066/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
1876	3042/CHENP/2013	IN	Samsung Electronics Co., LTD.	Pending
1877	2806/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1878	2807/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1879	2805/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1880	JP 5620555	JP	Samsung Electronics Co., LTD.	Granted
1881	2015-87004	JP	Samsung Electronics Co., LTD.	Pending
1882	2015-87005	JP	Samsung Electronics Co., LTD.	Pending
1883	KR 1522850	KR	Samsung Electronics Co., LTD.	Granted



1884	P20150052468	KR	Samsung Electronics Co., LTD.	Pending
1885	MX 324186	MX	Samsung Electronics Co., LTD.	Granted
1886	PI2012003196	MY	Samsung Electronics Co., LTD.	Pending
1887	PI2013003240	MY	Samsung Electronics Co., LTD.	Pending
1888	PI20I500I297	MY	Samsung Electronics Co., LTD.	Pending
1889	PI2015001296	MY	Samsung Electronics Co., LTD.	Pending
1890	PI2015001295	MY	Samsung Electronics Co., LTD.	Pending
1891	RU 2514929	RU	Samsung Electronics Co., LTD.	Granted
1892	RU 2513707	RU	Samsung Electronics Co., LTD.	Granted
1893	RU 2530252	RU	Samsung Electronics Co., LTD.	Granted
1894	2013158843	RU	Samsung Electronics Co., LTD.	Pending
1895	2013158760	RU	Samsung Electronics Co., LTD.	Pending
1896	2013158853	RU	Samsung Electronics Co., LTD.	Pending
1897	2013158636	RU	Samsung Electronics Co., LTD.	Pending
1898	SG 182491	SG	Samsung Electronics Co., LTD.	Granted
1899	SG 192512	SG	Samsung Electronics Co., LTD.	Granted
1900	SG 192511	SG	Samsung Electronics Co., LTD.	Granted
1901	10201500917W	SG	Samsung Electronics Co., LTD.	Pending
1902	US 8995529	US	Samsung Electronics Co., LTD.	Granted
1903	US8861608	US	Samsung Electronics Co., LTD.	Granted
1904	US 8861609	US	Samsung Electronics Co., LTD.	Granted
1905	US 9131237	US	Samsung Electronics Co., LTD.	Granted
1906	US 9106924	US	Samsung Electronics Co., LTD.	Granted
1907	1-2012-02401	VN	Samsung Electronics Co., LTD.	Pending
1908	1-2013-00793	VN	Samsung Electronics Co., LTD.	Pending
1909	1-2015-01676	VN	Samsung Electronics Co., LTD.	Pending
1910	1-2015-01675	VN	Samsung Electronics Co., LTD.	Pending
1911	1-2015-01674	VN	Samsung Electronics Co., LTD.	Pending
1912	2012/05735	ZA	Samsung Electronics Co., LTD.	Pending
1913	ZA 2013/04982	ZA	Samsung Electronics Co., LTD.	Granted
1914	2015/07995	ZA	Samsung Electronics Co., LTD.	Pending
1915	1120120174061	BR	Samsung Electronics Co., LTD.	Pending
1916	201180013432	CN	Samsung Electronics Co., LTD.	Pending
1917	201510134315.X	CN	Samsung Electronics Co., LTD.	Pending
1918	201510134278	CN	Samsung Electronics Co., LTD.	Pending

1919	201510134292	CN	Samsung Electronics Co., LTD.	Pending
1920	201510131900	CN	Samsung Electronics Co., LTD.	Pending
1921	201510289124	CN	Samsung Electronics Co., LTD.	Pending
1922	11733111	EP	Samsung Electronics Co., LTD.	Pending
1923	15183035	EP	Samsung Electronics Co., LTD.	Pending
1924	15183036	EP	Samsung Electronics Co., LTD.	Pending
1925	15183039	EP	Samsung Electronics Co., LTD.	Pending
1926	15183040	EP	Samsung Electronics Co., LTD.	Pending
1927	W-00201203291	ID	Samsung Electronics Co., LTD.	Pending
1928	P-00201505310	ID	Samsung Electronics Co., LTD.	Pending
1929	P-00201505312	ID	Samsung Electronics Co., LTD.	Pending
1930	P-00201505317	ID	Samsung Electronics Co., LTD.	Pending
1931	P-00201505320	ID	Samsung Electronics Co., LTD.	Pending
1932	1924/MUMNP/2012	IN	Samsung Electronics Co., LTD.	Pending
1933	1361/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1934	1360/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1935	1359/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1936	1358/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1937	1357/MUMNP/2015	IN	Samsung Electronics Co., LTD.	Pending
1938	JP 5718363	JP	Samsung Electronics Co., LTD.	Granted
1939	KR 1487687	KR	Samsung Electronics Co., LTD.	Granted
1940	P20160063730	KR	Samsung Electronics Co., LTD.	Pending
1941	PI2012003195	MY	Samsung Electronics Co., LTD.	Pending
1942	MY-155335-A	MY	Samsung Electronics Co., LTD.	Granted
1943	MY-155333-A	MY	Samsung Electronics Co., LTD.	Granted
1944	PI2015001597	MY	Samsung Electronics Co., LTD.	Pending
1945	PI2015001596	MY	Samsung Electronics Co., LTD.	Pending
1946	1-2012-501443	PH	Samsung Electronics Co., LTD.	Pending
1947	1-2015-500846	PH	Samsung Electronics Co., LTD.	Pending
1948	1-2015-500840	PH	Samsung Electronics Co., LTD.	Pending
1949	1-2015-500842	PH	Samsung Electronics Co., LTD.	Pending
1950	1-2015-500845	PH	Samsung Electronics Co., LTD.	Pending
1951	1201003549	TH	Samsung Electronics Co., LTD.	Pending
1952	US8842927	US	Samsung Electronics Co., LTD.	Granted
1953	US 8923641	US	Samsung Electronics Co., LTD.	Granted

1954	US 8971654	US	Samsung Electronics Co., LTD.	Granted
1955	US 8971653	US	Samsung Electronics Co., LTD.	Granted
1956	US 8885959	US	Samsung Electronics Co., LTD.	Granted
1957	US14/609643	US	Samsung Electronics Co., LTD.	Pending
1958	1-2012-02402	VN	Samsung Electronics Co., LTD.	Pending
1959	1-2015-01872	VN	Samsung Electronics Co., LTD.	Pending
1960	1-2015-01870	VN	Samsung Electronics Co., LTD.	Pending
1961	1-2015-01873	VN	Samsung Electronics Co., LTD.	Pending
1962	1-2015-01871	VN	Samsung Electronics Co., LTD.	Pending
1963	201180013473	CN	Samsung Electronics Co., LTD.	Pending
1964	201510038200	CN	Samsung Electronics Co., LTD.	Pending
1965	201510236639	CN	Samsung Electronics Co., LTD.	Pending
1966	201510236860.X	CN	Samsung Electronics Co., LTD.	Pending
1967	201510236512	CN	Samsung Electronics Co., LTD.	Pending
1968	201510236408	CN	Samsung Electronics Co., LTD.	Pending
1969	W-00201203294	ID	Samsung Electronics Co., LTD.	Pending
1970	P-00201504124	ID	Samsung Electronics Co., LTD.	Pending
1971	P-00201504129	ID	Samsung Electronics Co., LTD.	Pending
1972	P-00201504127	ID	Samsung Electronics Co., LTD.	Pending
1973	P-00201504125	ID	Samsung Electronics Co., LTD.	Pending
1974	6981/CHENP/2012	IN	Samsung Electronics Co., LTD.	Pending
1975	2779/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1976	2777/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1977	2776/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1978	2775/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1979	2774/CHENP/2015	IN	Samsung Electronics Co., LTD.	Pending
1980	KR 1457396	KR	Samsung Electronics Co., LTD.	Granted
1981	PI2012003194	MY	Samsung Electronics Co., LTD.	Pending
1982	1-2015-501077	PH	Samsung Electronics Co., LTD.	Pending
1983	1-2015-501078	PH	Samsung Electronics Co., LTD.	Pending
1984	1-2015-501079	PH	Samsung Electronics Co., LTD.	Pending
1985	1-2015-501080	PH	Samsung Electronics Co., LTD.	Pending
1986	1201003551	TH	Samsung Electronics Co., LTD.	Pending
1987	US 8792561	US	Samsung Electronics Co., LTD.	Granted
1988	US 9055299	US	Samsung Electronics Co., LTD.	Granted

1989	US 9124903	US	Samsung Electronics Co., LTD.	Granted
1990	US 9118915	US	Samsung Electronics Co., LTD.	Granted
1991	US 9118916	US	Samsung Electronics Co., LTD.	Granted
1992	US15/044672	US	Samsung Electronics Co., LTD.	Pending
1993	1-2012-02398	VN	Samsung Electronics Co., LTD.	Pending
1994	1-2015-01712	VN	Samsung Electronics Co., LTD.	Pending
1995	1-2015-01713	VN	Samsung Electronics Co., LTD.	Pending
1996	1-2015-01714	VN	Samsung Electronics Co., LTD.	Pending
1997	1-2015-01715	VN	Samsung Electronics Co., LTD.	Pending
1998	CN ZL201180008129.1	CN	Samsung Electronics Co., LTD.	Granted
1999	201510159485	CN	Samsung Electronics Co., LTD.	Pending
2000	201510159349	CN	Samsung Electronics Co., LTD.	Pending
2001	201510159111	CN	Samsung Electronics Co., LTD.	Pending
2002	201510158069	CN	Samsung Electronics Co., LTD.	Pending
2003	201510158601	CN	Samsung Electronics Co., LTD.	Pending
2004	KR 1495724	KR	Samsung Electronics Co., LTD.	Granted
2005	P20150095375	KR	Samsung Electronics Co., LTD.	Pending
2006	PI2012003259	MY	Samsung Electronics Co., LTD.	Pending
2007	1-2012-501453	PH	Samsung Electronics Co., LTD.	Pending
2008	1-2015-500871	PH	Samsung Electronics Co., LTD.	Pending
2009	1-2015-500873	PH	Samsung Electronics Co., LTD.	Pending
2010	1-2015-500872	PH	Samsung Electronics Co., LTD.	Pending
2011	1-2015-500874	PH	Samsung Electronics Co., LTD.	Pending
2012	1201003925	TH	Samsung Electronics Co., LTD.	Pending
2013	US15/140731	US	Samsung Electronics Co., LTD.	Pending
2014	1-2016-00163	VN	Samsung Electronics Co., LTD.	Pending
2015	1-2016-00162	VN	Samsung Electronics Co., LTD.	Pending
2016	1-2016-00161	VN	Samsung Electronics Co., LTD.	Pending
2017	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.

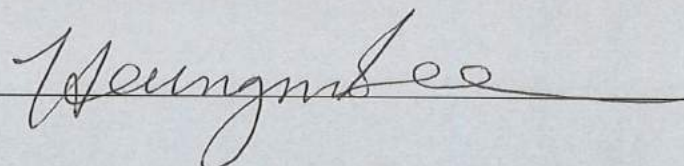
**Completed By:**

Name of Participant Samsung Electronics Co., LTD.

Name of Representative Heungmo Lee

Title of Representative Senior Vice President

Signature



Place, Date

Seoul, Korea, September 7, 2016