

KT Remain Wireless Telecommunication Patents

No	App #	App Date	Issued #	Issued Date	Country
1	1020100034118	4/14/2010	10-1771205	8/18/2017	KOREA
2	1020100038553	4/26/2010	10-1718341	3/15/2017	KOREA
3	1020100053828	6/8/2010	10-1161080	6/22/2012	KOREA
4	1020100024857	3/19/2010	10-1689883	12/20/2016	KOREA
5	1020100039062	4/27/2010	10-1615693	4/20/2016	KOREA
6	1020100061290	6/28/2010	10-1244288	3/11/2013	KOREA
7	1020100021885	3/11/2010	10-1193158	10/15/2012	KOREA
8	1020100061291	6/28/2010	10-1691158	12/23/2016	KOREA
9	1020100022175	3/12/2010	10-1173403	8/6/2012	KOREA
10	1020100061964	6/29/2010	10-1700807	1/23/2017	KOREA
11	1020100027873	3/29/2010	10-1653323	8/26/2016	KOREA
12	1020100011619	2/8/2010	10-1148036	5/15/2012	KOREA
13	2010-513112	12/21/2009	5485880	2/28/2014	JAPAN
14	12/666219	12/22/2009	10,360,409	7/23/2019	U.S.A.
15	2010-513111	12/21/2009	5116846	10/26/2012	JAPAN
16	12/666204	12/22/2009	8284940	10/9/2012	U.S.A.
17	2010-513110	12/21/2009	5270673	5/17/2013	JAPAN
18	12/666170	12/22/2009	9325668	4/26/2016	U.S.A.
19	1020100056154	6/14/2010	10-1681759	11/25/2016	KOREA
20	1020100035943	4/19/2010	10-1629815	6/7/2016	KOREA
21	1020100062793	6/30/2010	10-1090445	11/30/2011	KOREA
22	1020100053009	6/4/2010	10-1328553	11/6/2013	KOREA
23	1020100057068	6/16/2010	10-1206639	11/23/2012	KOREA
24	1020100062625	6/30/2010	10-1698602	1/16/2017	KOREA
25	1020100044614	5/12/2010	10-1698134	1/13/2017	KOREA
26	1020100086986	9/6/2010	10-1702552	1/26/2017	KOREA
27	1020100045005	5/13/2010	10-1206614	11/23/2012	KOREA
28	1020100062789	6/30/2010	10-1715352	3/6/2017	KOREA
29	1020100071038	7/22/2010	10-1706597	2/8/2017	KOREA
30	1020100061816	6/29/2010	10-1699080	1/17/2017	KOREA
31	1020100063226	6/30/2010	10-1686837	12/9/2016	KOREA
32	1020100090709	9/15/2010	10-1187361	9/25/2012	KOREA
33	1020100084389	8/30/2010	10-1256981	4/15/2013	KOREA
34	1020100081348	8/23/2010	10-1451402	10/8/2014	KOREA
35	1020100080249	8/19/2010	10-1732737	4/26/2017	KOREA
36	1020100078957	8/16/2010	10-1707214	2/9/2017	KOREA
37	1020100082592	8/25/2010	10-1654335	8/30/2016	KOREA
38	1020100065409	7/7/2010	10-1269709	5/24/2013	KOREA
39	1020100065419	7/7/2010	10-1343725	12/13/2013	KOREA
40	1020100072110	7/26/2010	10-1698135	1/13/2017	KOREA
41	1020100072111	7/26/2010	10-1702075	1/25/2017	KOREA
42	1020100076084	8/6/2010	10-1006949	1/3/2011	KOREA
43	1020100061367	6/28/2010	10-1016644	2/15/2011	KOREA
44	1020100093866	9/28/2010	10-1544462	8/7/2015	KOREA
45	1020100133753	12/23/2010	10-1272576	6/3/2013	KOREA
46	1020100133691	12/23/2010	10-1807645	12/5/2017	KOREA
47	1020100102975	10/21/2010	10-1739505	5/18/2017	KOREA
48	1020100132801	12/22/2010	10-1746813	6/7/2017	KOREA
49	1020100063028	6/30/2010	10-1681982	11/28/2016	KOREA
50	1020100062099	6/29/2010	10-1695402	1/5/2017	KOREA
51	1020100060101	6/24/2010	10-1707543	2/10/2017	KOREA
52	1020100060100	6/24/2010	10-1682462	11/29/2016	KOREA
53	1020100061276	6/28/2010	10-1688099	12/14/2016	KOREA
54	1020100093876	9/28/2010	10-1702488	1/26/2017	KOREA
55	1020100126213	12/10/2010	10-1742778	5/26/2017	KOREA
56	1020100110385	11/8/2010	10-1718487	3/15/2017	KOREA
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60	1020100120818	11/30/2010	10-1210613	12/4/2012	KOREA
61	1020100112962	11/12/2010	10-1504649	3/16/2015	KOREA
62	1020100120820	11/30/2010	10-1718975	3/16/2017	KOREA
63	1020100132235	12/22/2010	10-1265426	5/10/2013	KOREA
64	1020100130122	12/17/2010	10-1294924	8/2/2013	KOREA
65	1020100130906	12/20/2010	10-1606213	3/18/2016	KOREA
66	1020100120450	11/30/2010	10-1788838	10/16/2017	KOREA
67	1020100119766	11/29/2010	10-1171378	7/31/2012	KOREA
68	1020100133669	12/23/2010	10-1788836	10/16/2017	KOREA
69	1020100112652	11/12/2010	10-1522345	5/15/2015	KOREA
70	1020100134924	12/24/2010	10-1318364	10/8/2013	KOREA
71	1020100114024	11/16/2010	10-1269216	5/23/2013	KOREA
72	1020100133857	12/23/2010	10-1246357	3/15/2013	KOREA
73	1020100130938	12/20/2010	10-1726302	4/6/2017	KOREA
74	1020100116220	11/22/2010	10-1748181	6/12/2017	KOREA
75	1020100131818	12/21/2010	10-1688791	12/16/2016	KOREA
76	1020110031312	4/5/2011	10-1774441	8/29/2017	KOREA
77	1020100133352	12/23/2010	10-1741811	5/24/2017	KOREA
78	1020100137099	12/28/2010	10-1495793	2/16/2015	KOREA
79	1020100137074	12/28/2010	10-1495790	2/16/2015	KOREA
80	1020100139289	12/30/2010	10-1504652	3/16/2015	KOREA
81	1020110011123	2/8/2011	10-1329005	11/1/2013	KOREA
82	1020100138164	12/29/2010	10-1614024	4/14/2016	KOREA
83	1020100132488	12/22/2010	10-1752902	6/26/2017	KOREA
84	1020110009681	1/31/2011	10-1345415	12/19/2013	KOREA
85	1020100132487	12/22/2010	10-1472100	12/5/2014	KOREA
86	1020110009682	1/31/2011	10-1311517	9/16/2013	KOREA
87	1020100131415	12/21/2010	10-1338487	12/2/2013	KOREA
88	1020100140680	12/31/2010	10-1802498	11/22/2017	KOREA
89	1020100131609	12/21/2010	10-1292279	7/26/2013	KOREA
90	1020110012417	2/11/2011	10-1225195	1/16/2013	KOREA
91	1020110017747	2/28/2011	10-1769450	8/11/2017	KOREA
92	1020110025710	3/23/2011	10-1361823	2/5/2014	KOREA
93	1020110011992	2/10/2011	10-1361821	2/5/2014	KOREA
94	1020110013274	2/15/2011	10-1237877	2/21/2013	KOREA
95	1020110005146	1/18/2011	10-1771060	8/18/2017	KOREA
96	1020110022425	3/14/2011	10-1364769	2/11/2014	KOREA
97	1020110014199	2/17/2011	10-1391838	4/28/2014	KOREA
98	1020110054450	6/7/2011	10-1379355	3/24/2014	KOREA
99	1020110083556	8/22/2011	10-1386160	4/10/2014	KOREA
100	1020110024615	3/18/2011	10-1485149	1/15/2015	KOREA
101	1020110024529	3/18/2011	10-1787727	10/12/2017	KOREA
102	1020110024543	3/18/2011	10-1787741	10/12/2017	KOREA
103	1020110033790	4/12/2011	10-1343634	12/13/2013	KOREA
104	1020110049224	5/24/2011	10-1469243	11/28/2014	KOREA
105	1020110030383	4/1/2011	10-1342590	12/11/2013	KOREA
106	1020110024468	3/18/2011	10-1168016	7/17/2012	KOREA
107	1020110031387	4/5/2011	10-1462711	11/11/2014	KOREA
108	1020110059675	6/20/2011	10-1755659	7/3/2017	KOREA
109	1020110034851	4/14/2011	10-1394606	5/7/2014	KOREA
110	1020110034852	4/14/2011	10-1430243	8/7/2014	KOREA
111	1020110034854	4/14/2011	10-1311519	9/16/2013	KOREA
112	1020110062494	6/27/2011	10-1809235	12/8/2017	KOREA
113	1020110047193	5/19/2011	10-1784746	9/28/2017	KOREA
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119	1020110060235	6/21/2011	10-1364092	2/11/2014	KOREA
120	1020110120749	11/18/2011	10-1421557	7/15/2014	KOREA
121	1020060136322	12/28/2006	10-0821275	4/3/2008	KOREA
122	1020110065558	7/1/2011	10-1458374	10/30/2014	KOREA
123	1020110055298	6/8/2011	10-1529122	6/10/2015	KOREA
124	1020110112269	10/31/2011	10-1421710	7/15/2014	KOREA
125	1020110057341	6/14/2011	10-1602975	3/7/2016	KOREA
126	1020110074651	7/27/2011	10-1410998	6/17/2014	KOREA
127	1020110076582	8/1/2011	10-1394610	5/7/2014	KOREA
128	1020110104711	10/13/2011	10-1874643	6/28/2018	KOREA
129	13/234719	9/16/2011	9851889	12/26/2017	U.S.A.
130	1020110076581	8/1/2011	10-1311526	9/16/2013	KOREA
131	1020110078326	8/5/2011	10-1598598	2/23/2016	KOREA
132	1020110081337	8/16/2011	10-1289879	7/19/2013	KOREA
133	1020110065486	7/1/2011	10-1342591	12/11/2013	KOREA
134	1020110081335	8/16/2011	10-1410997	6/17/2014	KOREA
135	1020110077119	8/2/2011	10-1367946	2/20/2014	KOREA
136	1020110081336	8/16/2011	10-1410996	6/17/2014	KOREA
137	1020110080294	8/11/2011	10-1383294	4/1/2014	KOREA
138	1020110042163	5/3/2011	10-1803972	11/27/2017	KOREA
139	1020110079647	8/10/2011	10-1394364	5/7/2014	KOREA
140	1020110054200	6/3/2011	10-1792881	10/26/2017	KOREA
141	1020110065107	6/30/2011	10-1504654	3/16/2015	KOREA
142	1020110065137	6/30/2011	10-1554599	9/15/2015	KOREA
143	1020110065108	6/30/2011	10-1453517	10/15/2014	KOREA
144	1020110068747	7/12/2011	10-1485154	1/15/2015	KOREA
145	1020110068746	7/12/2011	10-1485153	1/15/2015	KOREA
146	1020110065103	6/30/2011	10-1485150	1/15/2015	KOREA
147	13/206839	8/10/2011	9374744	6/21/2016	U.S.A.
148	13/166222	6/22/2011	8804664	8/12/2014	U.S.A.
149	13/171907	6/29/2011	9078187	7/7/2015	U.S.A.
150	13/166314	6/22/2011	9479969	10/25/2016	U.S.A.
151	1020110074296	7/26/2011	10-1421563	7/15/2014	KOREA
152	1020110078816	8/8/2011	10-1311525	9/16/2013	KOREA
153	1020110080874	8/12/2011	10-1430241	8/7/2014	KOREA
154	1020110073646	7/25/2011	10-1422253	7/16/2014	KOREA
155	1020110079271	8/9/2011	10-1311512	9/16/2013	KOREA
156	1020110093648	9/16/2011	10-1408031	6/10/2014	KOREA
157	1020110100682	10/4/2011	10-1841942	3/20/2018	KOREA
158	1020110080099	8/11/2011	10-1422255	7/16/2014	KOREA
159	1020110073092	7/22/2011	10-1486520	1/20/2015	KOREA
160	1020100065860	7/8/2010	10-1583093	12/30/2015	KOREA
161	13/179454	7/8/2011	8560007	10/15/2013	U.S.A.
162	1020110085889	8/26/2011	10-1431742	8/12/2014	KOREA
163	13/306672	11/29/2011	9413822	8/9/2016	U.S.A.
164	13/226793	9/7/2011	8913996	12/16/2014	U.S.A.
165	13/253465	10/5/2011	9280266	3/8/2016	U.S.A.
166	1020110000076	1/3/2011	10-1344300	12/17/2013	KOREA
167	1020100130615	12/20/2010	10-1229795	1/30/2013	KOREA
168	1020110076583	8/1/2011	10-1430242	8/7/2014	KOREA
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170	13/326734	12/15/2011	8862170	10/14/2014	U.S.A.
171	1020110133717	12/13/2011	10-1460292	11/4/2014	KOREA
172	1020110093277	9/16/2011	10-1504173	3/13/2015	KOREA
173	1020110084388	8/24/2011	10-1820049	1/12/2018	KOREA
174	1020110093278	9/16/2011	10-1439534	9/2/2014	KOREA
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178	1020110097832	9/27/2011	10-1553601	9/10/2015	KOREA
179	1020110104090	10/12/2011	10-1793990	10/31/2017	KOREA
180	1020110088183	8/31/2011	10-1514044	4/15/2015	KOREA
181	1020110086733	8/29/2011	10-1495802	2/16/2015	KOREA
182	1020110088023	8/31/2011	10-1514042	4/15/2015	KOREA
183	13/286797	11/1/2011	8504106	8/6/2013	U.S.A.
184	1020110094387	9/20/2011	10-1875222	6/29/2018	KOREA
185	1020110110113	10/26/2011	10-1311523	9/16/2013	KOREA
186	1020110110624	10/27/2011	10-1311524	9/16/2013	KOREA
187	2755142	9/9/2011	2755142	4/12/2016	CANADA
188	1020110133230	12/12/2011	10-1537098	7/9/2015	KOREA
189	1020110137680	12/19/2011	10-1879856	7/12/2018	KOREA
190	1020110130549	12/7/2011	10-1284828	7/4/2013	KOREA
191	1020110127193	11/30/2011	10-1262340	5/2/2013	KOREA
192	1020110104300	10/12/2011	10-1832366	2/20/2018	KOREA
193	1020110119129	11/15/2011	10-1808174	12/6/2017	KOREA
194	1020110136779	12/16/2011	10-1451419	10/8/2014	KOREA
195	1020110111367	10/28/2011	10-1945361	1/29/2019	KOREA
196	1020110069927	7/14/2011	10-1811452	12/15/2017	KOREA
197	1020110127703	12/1/2011	10-1900917	9/14/2018	KOREA
198	1020110134641	12/14/2011	10-1402934	5/27/2014	KOREA
199	1020110141270	12/23/2011	10-2001223	7/11/2019	KOREA
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201	1020110138498	12/20/2011	10-1485155	1/15/2015	KOREA
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205	1020110140297	12/22/2011	10-1869063	6/12/2018	KOREA
206	1020110141654	12/23/2011	10-1546407	8/17/2015	KOREA
207	1020110127866	12/1/2011	10-1862657	5/24/2018	KOREA
208	13/296830	11/15/2011	8351957	1/8/2013	U.S.A.
209	1020110136564	12/16/2011	10-1854191	4/26/2018	KOREA
210	1020110115326	11/7/2011	10-1485156	1/15/2015	KOREA
211	1020120008272	1/27/2012	10-1490549	1/30/2015	KOREA
212	1020110142017	12/26/2011	10-1522397	5/15/2015	KOREA
213	1020110142048	12/26/2011	10-1420906	7/11/2014	KOREA
214	1020110108156	10/21/2011	10-1453521	10/15/2014	KOREA
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217	1020110141387	12/23/2011	10-1630812	6/9/2016	KOREA
218	1020110141016	12/23/2011	10-1522399	5/15/2015	KOREA
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230	1020120004979	1/16/2012	10-1301300	8/22/2013	KOREA
231	1020120031929	3/28/2012	10-1946048	1/30/2019	KOREA
232	1020110142730	12/26/2011	10-1444435	9/18/2014	KOREA
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238	1020120002018	1/6/2012	10-1342593	12/11/2013	KOREA
239	13/539929	7/2/2012	8959267	2/17/2015	U.S.A.
240	1020110043882	5/11/2011	10-1199618	11/2/2012	KOREA
241	1020110044503	5/12/2011	10-1229699	1/29/2013	KOREA
242	1020110045013	5/13/2011	10-1251761	4/1/2013	KOREA
243	1020110045106	5/13/2011	10-1229629	1/29/2013	KOREA
244	1020120034083	4/2/2012	10-1973595	4/23/2019	KOREA
245	1020120011935	2/6/2012	10-1487483	1/22/2015	KOREA
246	1020120011466	2/3/2012	10-1430238	8/7/2014	KOREA
247	13/447455	4/16/2012	8588782	11/19/2013	U.S.A.
248	13/447340	4/16/2012	8565752	10/22/2013	U.S.A.
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251	13/447349	4/16/2012	8787260	7/22/2014	U.S.A.
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253	13453022	4/23/2012	10,616,814	4/7/2020	U.S.A.
254	1020120038963	4/16/2012	10-1536253	7/7/2015	KOREA
255	1020120031928	3/28/2012	10-1870375	6/18/2018	KOREA
256	1020120032149	3/29/2012	10-1470872	12/3/2014	KOREA
257	1020120031987	3/28/2012	10-1575136	12/1/2015	KOREA
258	1020120042293	4/23/2012	10-1531031	6/17/2015	KOREA
259	1020120048811	5/8/2012	10-1295897	8/6/2013	KOREA
260	1020120046841	5/3/2012	10-1500507	3/3/2015	KOREA
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524	14/378630	8/13/2014	9705657	7/11/2017	U.S.A.
525	1020140135798	10/8/2014	10-2199206	12/30/2020	KOREA
526	1020140116421	9/2/2014	10-1734482	5/2/2017	KOREA
527	1020140182238	12/17/2014	10-1670687	10/25/2016	KOREA
528	1020140088926	7/15/2014	10-1875252	6/29/2018	KOREA
529	1020140170393	12/2/2014	10-1619843	5/3/2016	KOREA
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532	1020140143615	10/22/2014	10-1865373	5/31/2018	KOREA
533	1020140143614	10/22/2014	10-1788837	10/16/2017	KOREA
534	14/329114	7/11/2014	9241290	1/19/2016	U.S.A.
535	1020140174045	12/5/2014	10-2204844	1/13/2021	KOREA
536	1020140190551	12/26/2014	10-1691109	12/23/2016	KOREA
537	14/486511	9/15/2014	RE46415	5/23/2017	U.S.A.
538	1020150000163	1/2/2015	10-1632651	6/16/2016	KOREA
539	1020140142829	10/21/2014	10-2311061	10/1/2021	KOREA
540	1020140148077	10/29/2014	10-1651553	8/22/2016	KOREA
541	1020140152197	11/4/2014	10-1645674	7/29/2016	KOREA
542	1020140174037	12/5/2014	10-1627621	5/31/2016	KOREA
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544	14/474,266	9/1/2014	10,548,023	1/28/2020	U.S.A.
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547	14/488359	9/17/2014	9699695	7/4/2017	U.S.A.
548	1020140133478	10/2/2014	10-1594486	2/5/2016	KOREA
549	201380023072.1	10/31/2014	ZL201380023072.1	9/21/2018	CHINA
550	1020140127173	9/23/2014	10-1862839	5/24/2018	KOREA
551	1020140130514	9/29/2014	10-1516001	4/22/2015	KOREA
552	1020150000744	1/5/2015	10-1629925	6/7/2016	KOREA
553	1020140121062	9/12/2014	10-2131947	7/2/2020	KOREA
554	1020140188431	12/24/2014	10-1700868	1/23/2017	KOREA
555	1020150003587	1/9/2015	10-2258170	5/24/2021	KOREA
556	1020150003358	1/9/2015	10-2309897	9/30/2021	KOREA
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558	1020140180330	12/15/2014	10-1765375	7/31/2017	KOREA
559	1020150008176	1/16/2015	10-2343961	12/22/2021	KOREA
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566	1020150007498	1/15/2015	10-2190122	12/7/2020	KOREA
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572	1020150023625	2/16/2015	10-1672120	10/27/2016	KOREA
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578	1020150043254	3/27/2015	10-2297934	8/30/2021	KOREA
579	1020150097014	7/8/2015	10-1731971	4/25/2017	KOREA
580	201380052383.0	4/7/2015	ZL201380052383.0	8/28/2018	CHINA
581	1020150042150	3/26/2015	10-1669557	10/20/2016	KOREA
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597	1020150081417	6/9/2015	10-1746202	6/5/2017	KOREA
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599	1020150081756	6/10/2015	10-1764826	8/28/2017	KOREA
600	1020150105652	7/27/2015	10-1878874	7/10/2018	KOREA
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631	1020150129934	9/14/2015	10-1705214	2/3/2017	KOREA
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657	1020150142829	10/13/2015	10-2393346	4/27/2022	KOREA
658	1020150114636	8/13/2015	10-1787656	10/12/2017	KOREA
659	1020150148918	10/26/2015	10-2404704	5/27/2022	KOREA
660	1020150164804	11/24/2015	10-2393848	4/28/2022	KOREA
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663	1020150184878	12/23/2015	10-2553930	7/5/2023	KOREA
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665	1020150129806	9/14/2015	10-1660966	9/22/2016	KOREA
666	1020150129951	9/14/2015	10-1798101	11/9/2017	KOREA
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672	1020150132349	9/18/2015	10-1655699	9/1/2016	KOREA
673	1020150187615	12/28/2015	10-2314402	10/13/2021	KOREA
674	1020150178029	12/14/2015	10-1813038	12/21/2017	KOREA
675	1020150170133	12/1/2015	10-1758706	7/11/2017	KOREA
676	1020150155504	11/6/2015	10-1905941	10/1/2018	KOREA
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703	1020160085045	7/5/2016	10-2033452	10/11/2019	KOREA
704	1020160166930	12/8/2016	10-1945784	1/30/2019	KOREA
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711	1020160084062	7/4/2016	10-1781984	9/20/2017	KOREA
712	1020160054194	5/2/2016	10-2480997	12/20/2022	KOREA
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718	1020160062090	5/20/2016	10-1813039	12/21/2017	KOREA
719	1020160110887	8/30/2016	10-2009718	8/8/2019	KOREA
720	1020160059784	5/16/2016	10-2112845	5/13/2020	KOREA
721	1020160037352	3/29/2016	10-1870022	6/15/2018	KOREA
722	1020160031117	3/15/2016	10-1796297	11/3/2017	KOREA
723	1020160085786	7/6/2016	10-2625732	1/11/2024	KOREA
724	1020160096747	7/29/2016	10-2280450	7/16/2021	KOREA
725	1020160050370	4/25/2016	10-1805160	11/29/2017	KOREA
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734	1020160092039	7/20/2016	10-2601748	11/8/2023	KOREA
735	1020160069328	6/3/2016	10-2609318	11/29/2023	KOREA
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743	1020160062761	5/23/2016	10-1784793	9/28/2017	KOREA
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762	1020170174574	12/18/2017	10-2106105	4/23/2020	KOREA
763	1020160079482	6/24/2016	10-1841054	3/16/2018	KOREA
764	1020160142322	10/28/2016	10-2088425	3/6/2020	KOREA
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774	1020160090040	7/15/2016	10-2105685	4/22/2020	KOREA
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1569	1020220141214	10/28/2022			KOREA
1570	1020220140765	10/27/2022			KOREA
1571	1020220129962	10/11/2022	10-2724599	10/28/2024	KOREA
1572	1020220162910	11/29/2022			KOREA
1573	1020230037083	3/22/2023			KOREA
1574	1020220146776	11/7/2022			KOREA
1575	1020220169733	12/7/2022			KOREA
1576	1020230034391	3/16/2023			KOREA
1577	1020220100816	8/11/2022	10-2648846	3/13/2024	KOREA
1578	17/921200	10/25/2022			U.S.A.
1579	21784267.3	11/7/2022			EPO (European patent)
1580	17/917,803	10/7/2022			U.S.A.
1581	21785665.7	11/7/2022			EPO (European patent)
1582	17/917,110	10/5/2022			U.S.A.
1583	1020220182948	12/23/2022			KOREA
1584	1020220184600	12/26/2022	10-2762364	1/24/2025	KOREA
1585	1020220171620	12/9/2022			KOREA
1586	1020220128630	10/7/2022			KOREA
1587	1020220172585	12/12/2022			KOREA
1588	1020220112849	9/6/2022			KOREA
1589	1020230030776	3/8/2023			KOREA
1590	17/956,755	9/29/2022	12015466	6/18/2024	U.S.A.
1591	1020220172575	12/12/2022			KOREA
1592	1020220175901	12/15/2022			KOREA

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1593	1020230014230	2/2/2023			KOREA
1594	1020220128746	10/7/2022			KOREA
1595	1020230018944	2/13/2023			KOREA
1596	1020230042314	3/30/2023			KOREA
1597	1020230009607	1/25/2023	10-2677914	6/19/2024	KOREA
1598	1020230047496	4/11/2023			KOREA
1599	1020230084420	6/29/2023			KOREA
1600	1020230019641	2/14/2023			KOREA
1601	1020220142886	10/31/2022	10-2636645	2/7/2024	KOREA
1602	1020220146173	11/4/2022	10-2636491	2/7/2024	KOREA
1603	1020230001975	1/5/2023			KOREA
1604	1020230041380	3/29/2023			KOREA
1605	1020220181025	12/21/2022			KOREA
1606	1020220181808	12/22/2022			KOREA
1607	1020220185169	12/27/2022			KOREA
1608	1020220185179	12/27/2022			KOREA
1609	1020230009857	1/26/2023			KOREA
1610	60 2007 029 338.3	5/30/2007	2097994	3/27/2013	GERMANY
1611	06798559.8	3/28/2008	1929668	4/15/2015	FRANCE
1612	1020230001148	1/4/2023			KOREA
1613	19821679.8	1/19/2021	3813347	2/8/2023	GERMANY
1614	19821679.8	1/19/2021	3813347	2/8/2023	FRANCE
1615	19821679.8	1/19/2021	3813347	2/8/2023	U.K.
1616	1020230026944	2/28/2023			KOREA
1617	1020230060740	5/10/2023			KOREA
1618	202180051152.2	2/20/2023			CHINA
1619	21858611.3	2/27/2023			EPO (European patent)
1620	18/042,242	2/20/2023			U.S.A.
1621	1020230057103	5/2/2023			KOREA
1622	1020230091690	7/14/2023			KOREA
1623	1020230063158	5/16/2023			KOREA
1624	202180071178.3	4/18/2023			CHINA
1625	21883178.2	3/30/2023			EPO (European patent)
1626	18/029,998	4/3/2023			U.S.A.
1627	202180059545.8	1/28/2023	ZL202180059545.8	12/24/2024	CHINA
1628	21845562.4	2/16/2023			EPO (European patent)
1629	18/006,031	1/19/2023			U.S.A.
1630	1020230051255	4/19/2023			KOREA
1631	1020230008076	1/19/2023			KOREA
1632	1020230034109	3/15/2023			KOREA
1633	1020230045834	4/7/2023			KOREA
1634	1020230050138	4/17/2023			KOREA
1635	1020230122733	9/14/2023			KOREA
1636	1020230042313	3/30/2023			KOREA
1637	1020230101382	8/3/2023			KOREA
1638	1020230035794	3/20/2023			KOREA
1639	1020230035798	3/20/2023			KOREA
1640	1020230025309	2/24/2023			KOREA
1641	1020230049044	4/13/2023			KOREA
1642	1020230049202	4/14/2023			KOREA
1643	1020230050038	4/17/2023			KOREA
1644	1020230050798	4/18/2023			KOREA
1645	1020230070840	6/1/2023			KOREA
1646	1020230093406	7/18/2023			KOREA
1647	1020230101817	8/3/2023			KOREA
1648	1020230057506	5/3/2023			KOREA
1649	1020230060059	5/9/2023			KOREA
1650	1020230044620	4/5/2023			KOREA
1651	1020230075698	6/13/2023			KOREA

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1653	23169943.0	4/26/2023			EPO (European patent)
1654	18/138,960	4/25/2023			U.S.A.
1655	1020230113106	8/28/2023			KOREA
1656	23169399.5	4/24/2023			EPO (European patent)
1657	18/138,910	4/25/2023			U.S.A.
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1660	18/351073	7/12/2023			U.S.A.
1661	18/211,260	6/17/2023	US12,301,363	5/13/2025	U.S.A.
1662	1020230083426	6/28/2023			KOREA
1663	1020230088926	7/10/2023			KOREA
1664	1020230094081	7/19/2023			KOREA
1665	1020230099343	7/31/2023			KOREA
1666	1020230118294	9/6/2023			KOREA
1667	1020230153894	11/8/2023			KOREA
1668	1020230081034	6/23/2023			KOREA
1669	1020230111558	8/24/2023			KOREA
1670	1020230122099	9/13/2023			KOREA
1671	1020230149460	11/1/2023			KOREA
1672	1020230113091	8/28/2023			KOREA
1673	1020230081035	6/23/2023			KOREA
1674	1020230129295	9/26/2023			KOREA
1675	1020230155265	11/10/2023			KOREA
1676	1020230131094	9/27/2023			KOREA
1677	1020230148684	11/1/2023			KOREA
1678	22736884.2	7/12/2023			EPO (European patent)
1679	18/270,957	7/5/2023			U.S.A.
1680	1020230098015	7/27/2023			KOREA
1681	1020230102098	8/4/2023			KOREA
1682	1020230162428	11/21/2023			KOREA
1683	1020230155266	11/10/2023			KOREA
1684	18748552.9	7/24/2019	3562213	11/15/2023	U.K.
1685	18748552.9	7/24/2019	3562213	11/15/2023	EPO (Unitary patent)
1686	21156931.4	2/12/2021	3866508	11/22/2023	U.K.
1687	21156931.4	2/12/2021	3866508	11/22/2023	EPO (Unitary patent)
1688	1020230184985	12/18/2023			KOREA
1689	1020240027694	2/27/2024			KOREA
1690	1020230101350	8/3/2023			KOREA
1691	1020230085736	7/3/2023	10-2729260	11/12/2024	KOREA
1692	1020230148947	11/1/2023			KOREA
1693	23181836.0	6/27/2023			EPO (European patent)
1694	19846202.0	2/19/2021	3836675	8/2/2023	U.K.
1695	19846202.0	2/19/2021	3836675	8/2/2023	EPO (Unitary patent)
1696	1020230170016	11/29/2023			KOREA
1697	202280032054.9	10/30/2023			CHINA
1698	22796047.3	11/24/2023			EPO (European patent)
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1700	22776118.6	10/17/2023			EPO (European patent)
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1702	22775991.7	10/16/2023			EPO (European patent)
1703	18/282,073	9/14/2023			U.S.A.
1704	202280021153.7	9/13/2023			CHINA
1705	22771746.9	9/19/2023			EPO (European patent)
1706	18/281,444	9/11/2023			U.S.A.
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1709	1020230121265	9/12/2023			KOREA
1710	1020230155509	11/10/2023			KOREA

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1712	17865477.8	4/26/2019	3,518,601	5/24/2023	GERMANY
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1719	1020230181814	12/14/2023			KOREA
1720	1020230187645	12/20/2023			KOREA
1721	202311119655.6	8/31/2023			CHINA
1722	23194277.2	8/30/2023			EPO (European patent)
1723	18/240,735	8/31/2023			U.S.A.
1724	1020230180943	12/13/2023			KOREA
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1731	1020240036574	3/15/2024			KOREA
1732	1020230140086	10/19/2023			KOREA
1733	1020230134641	10/10/2023			KOREA
1734	1020230144192	10/25/2023			KOREA
1735	1020230175378	12/6/2023			KOREA
1736	1020230185774	12/19/2023			KOREA
1737	1020230185775	12/19/2023			KOREA
1738	1020240005816	1/15/2024			KOREA
1739	1020230181189	12/13/2023			KOREA
1740	1020240037899	3/19/2024			KOREA
1741	1020240027120	2/26/2024			KOREA
1742	1020240045245	4/3/2024			KOREA
1743	1020240018662	2/7/2024			KOREA
1744	1020240046625	4/5/2024			KOREA
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1746	1020240018516	2/7/2024			KOREA
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1749	1020230185776	12/19/2023			KOREA
1750	1020240029198	2/28/2024			KOREA
1751	1020240021463	2/15/2024			KOREA
1752	1020240000716	1/3/2024			KOREA
1753	1020240069911	5/29/2024			KOREA
1754	18/503,076	11/6/2023			U.S.A.
1755	1020240038456	3/20/2024			KOREA
1756	1020230162647	11/21/2023			KOREA
1757	1020240001289	1/4/2024			KOREA
1758	1020240005029	1/11/2024			KOREA
1759	1020240001787	1/4/2024			KOREA
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1761	19908873.3	7/28/2021	3910993	2/21/2024	EPO (Unitary patent)
1762	1020240066700	5/22/2024			KOREA
1763	1020240002610	1/8/2024			KOREA
1764	1020240006954	1/16/2024			KOREA
1765	1020240006666	1/16/2024			KOREA
1766	1020240006667	1/16/2024			KOREA
1767	1020240006821	1/16/2024			KOREA
1768	1020230196792	12/29/2023			KOREA
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1771	18/424,714	1/26/2024	US12,294,901	5/6/2025	U.S.A.
1772	202410128738.X	1/30/2024			CHINA
1773	24154058.2	1/26/2024			EPO (European patent)
1774	18/428,241	1/31/2024			U.S.A.
1775	1020240101050	7/30/2024			KOREA
1776	1020240017745	2/5/2024			KOREA
1777	1020240017748	2/5/2024			KOREA
1778	1020240079168	6/18/2024			KOREA
1779	1020240037854	3/19/2024			KOREA
1780	1020240037855	3/19/2024			KOREA
1781	1020240045213	4/3/2024			KOREA
1782	1020240046531	4/5/2024			KOREA
1783	1020240046574	4/5/2024			KOREA
1784	1020240078380	6/17/2024			KOREA
1785	1020240048710	4/11/2024			KOREA
1786	21179137.1	6/11/2021	3927099	11/22/2023	U.K.
1787	21179137.1	6/11/2021	3927099	11/22/2023	EPO (Unitary patent)
1788	19857234.9	3/26/2021	3849261	1/24/2024	U.K.
1789	19857234.9	3/26/2021	3849261	1/24/2024	EPO (Unitary patent)
1790	20853322.4	9/15/2021	3927080	5/22/2024	U.K.
1791	20853322.4	9/15/2021	3927080	5/22/2024	EPO (Unitary patent)
1792	1020240043443	3/29/2024			KOREA
1793	1020240044507	4/2/2024			KOREA
1794	1020240045689	4/4/2024			KOREA
1795	202410402488.4	4/3/2024			CHINA
1796	24168271.5	4/3/2024			EPO (European patent)
1797	18/626,754	4/4/2024			U.S.A.
1798	1020240062140	5/10/2024			KOREA
1799	1020240062141	5/10/2024			KOREA
1800	1020240062142	5/10/2024			KOREA
1801	19876374	5/5/2021	3873128	6/26/2024	U.K.
1802	19876374	5/5/2021	3873128	6/26/2024	EPO (Unitary patent)
1803	1020240063098	5/14/2024			KOREA
1804	19847867.9	3/9/2021	3836708	8/7/2024	U.K.
1805	19847867.9	3/9/2021	3836708	8/7/2024	EPO (Unitary patent)
1806	202410407968.X	4/7/2024			CHINA
1807	24168420.8	4/4/2024			EPO (European patent)
1808	18/625,464	4/3/2024			U.S.A.
1809	202410408076.1	4/7/2024			CHINA
1810	24168394.5	4/4/2024			EPO (European patent)
1811	18/626,687	4/4/2024			U.S.A.
1812	PCT/KR2024/004336	4/3/2024			WIPO (PCT)
1813	PCT/KR2024/004338	4/3/2024			WIPO (PCT)
1814	19854142.7	3/26/2021	3846573	8/14/2024	U.K.
1815	19854142.7	3/26/2021	3846573	8/14/2024	EPO (Unitary patent)
1816	PCT/KR2024/004483	4/5/2024			WIPO (PCT)
1817	202410473825.9	4/19/2024			CHINA
1818	24170690.2	4/17/2024			EPO (European patent)
1819	18/639,007	4/18/2024			U.S.A.
1820	202410492848.4	4/23/2024			CHINA
1821	EP24171589.5	4/22/2024			EPO (European patent)
1822	18/636,675	4/16/2024			U.S.A.
1823	202410536040.1	4/30/2024			CHINA
1824	EP24171611.7	4/22/2024			EPO (European patent)
1825	18/637,834	4/17/2024			U.S.A.
1826	17820554.8	1/9/2019	3481135	8/14/2024	U.K.
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1828	1020240101765	7/31/2024			KOREA

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1830	PCT/KR2024/004608	4/8/2024			WIPO (PCT)
1831	PCT/KR2024/004607	4/8/2024			WIPO (PCT)
1832	1020240109676	8/16/2024			KOREA
1833	1020240061492	5/9/2024			KOREA
1834	1020240096632	7/22/2024			KOREA
1835	1020240080391	6/20/2024			KOREA
1836	1020240081275	6/21/2024			KOREA
1837	1020240115101	8/27/2024			KOREA
1838	1020240110640	8/19/2024			KOREA
1839	PCT/KR2024/006274	5/9/2024			WIPO (PCT)
1840	PCT/KR2024/006609	5/14/2024			WIPO (PCT)
1841	PCT/KR2024/095776	5/16/2024			WIPO (PCT)
1842	PCT/KR2024/006619	5/16/2024			WIPO (PCT)
1843	1020240127518	9/20/2024			KOREA
1844	PCT/KR2024/004602	4/8/2024			WIPO (PCT)
1845	1020240135373	10/7/2024			KOREA
1846	1020240128187	9/23/2024			KOREA
1847	1020240072307	6/3/2024			KOREA
1848	1020240081881	6/24/2024			KOREA
1849	PCT/KR2024/006365	5/10/2024			WIPO (PCT)
1850	1020240134228	10/2/2024			KOREA
1851	1020240086804	7/2/2024			KOREA
1852	1020240086797	7/2/2024			KOREA
1853	1020240086778	7/2/2024			KOREA
1854	202380016475.7	7/8/2024			CHINA
1855	23737450.9	7/23/2024			EPO (European patent)
1856	18/726,870	7/5/2024			U.S.A.
1857	202380035788.7	10/23/2024			CHINA
1858	23796696.5	11/27/2024			EPO (European patent)
1859	18/859,973	10/24/2024			U.S.A.
1860	202380035695.4	10/22/2024			CHINA
1861	23796695.7	11/27/2024			EPO (European patent)
1862	18/859,932	10/24/2024			U.S.A.
1863	202380027410.2	9/12/2024			CHINA
1864	23771146.0	10/16/2024			EPO (European patent)
1865	18/847,561	9/16/2024			U.S.A.
1866	202380019315.8	7/29/2024			CHINA
1867	23747378.0	8/12/2024			EPO (European patent)
1868	18/833,741	7/26/2024			U.S.A.
1869	202380015984.8	7/2/2024			CHINA
1870	23735163.0	7/19/2024			EPO (European patent)
1871	18/726,187	7/2/2024			U.S.A.
1872	202380015992.2	7/2/2024			CHINA
1873	23735162.2	7/19/2024			EPO (European patent)
1874	18/725,960	7/1/2024			U.S.A.
1875	202380015797.X	6/27/2024			CHINA
1876	23735159.8	7/16/2024			EPO (European patent)
1877	18/725,939	7/1/2024			U.S.A.
1878	202380015885.X	6/28/2024			CHINA
1879	23735158.0	7/19/2024			EPO (European patent)
1880	18/726,217	7/2/2024			U.S.A.
1881	1020240085445	6/28/2024			KOREA
1882	1020240091142	7/10/2024			KOREA
1883	1020240096204	7/22/2024			KOREA
1884	1020240142033	10/17/2024			KOREA
1885	1020240133091	9/30/2024			KOREA
1886	1020240105843	8/8/2024			KOREA
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1888	1020240131935	9/27/2024			KOREA
1889	PCT/KR2024/007876	6/10/2024			WIPO (PCT)
1890	1020240096633	7/22/2024			KOREA
1891	1020240096997	7/23/2024			KOREA
1892	1020240129790	9/25/2024			KOREA
1893	1020240129789	9/25/2024			KOREA
1894	1020240100352	7/29/2024			KOREA
1895	1020240100360	7/29/2024			KOREA
1896	1020240100365	7/29/2024			KOREA
1897	1020240136002	10/7/2024			KOREA
1898	202410933944.8	7/12/2024			CHINA
1899	24187979.0	7/11/2024			EPO (European patent)
1900	18/769,684	7/11/2024			U.S.A.
1901	202410933962.6	7/12/2024			CHINA
1902	24187929.5	7/11/2024			EPO (European patent)
1903	18/769,730	7/11/2024			U.S.A.
1904	1020240138474	10/11/2024			KOREA
1905	PCT/KR2024/009063	6/28/2024			WIPO (PCT)
1906	1020240134031	10/2/2024			KOREA
1907	1020240119259	9/3/2024			KOREA
1908	1020240112073	8/21/2024			KOREA
1909	1020240118719	9/2/2024			KOREA
1910	PCT/KR2024/009443	7/4/2024			WIPO (PCT)
1911	1020240129216	9/24/2024			KOREA
1912	1020240193587	12/23/2024			KOREA
1913	PCT/KR2024/009562	7/5/2024			WIPO (PCT)
1914	PCT/KR2024/009815	7/10/2024			WIPO (PCT)
1915	1020240105689	8/7/2024			KOREA
1916	1020240108808	8/14/2024			KOREA
1917	PCT/KR2024/009995	7/12/2024			WIPO (PCT)
1918	18/890,650	9/19/2024			U.S.A.
1919	202380029395.5	9/23/2024			CHINA
1920	23775302.5	9/23/2024			EPO (European patent)
1921	18/890,285	9/19/2024			U.S.A.
1922	PCT/KR2024/011050	7/29/2024			WIPO (PCT)
1923	1020240179537	12/5/2024			KOREA
1924	PCT/KR2024/010867	7/25/2024			WIPO (PCT)
1925	202411084942.2	8/8/2024			CHINA
1926	24193668.1	8/8/2024			EPO (European patent)
1927	18/797,901	8/8/2024			U.S.A.
1928	202411084948.X	8/8/2024			CHINA
1929	24193732.5	8/8/2024			EPO (European patent)
1930	18/798,060	8/8/2024			U.S.A.
1931	202411084941.8	8/8/2024			CHINA
1932	24193740.8	8/8/2024			EPO (European patent)
1933	18/798,305	8/8/2024			U.S.A.
1934	1020240102743	8/1/2024			KOREA
1935	1020240102760	8/1/2024			KOREA
1936	1020240102762	8/1/2024			KOREA
1937	1020240164751	11/19/2024			KOREA
1938	PCT/KR2024/009567	7/5/2024			WIPO (PCT)
1939	PCT/KR2024/011894	8/9/2024			WIPO (PCT)
1940	PCT/KR2024/011851	8/9/2024			WIPO (PCT)
1941	1020240194609	12/23/2024			KOREA
1942	PCT/KR2024/012165	8/16/2024			WIPO (PCT)
1943	1020250007532	1/17/2025			KOREA
1944	1020250007533	1/17/2025			KOREA
1945	1020250007326	1/17/2025			KOREA
1946	18/941,933	11/8/2024			U.S.A.

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1947	18/898,597	9/26/2024			U.S.A.
1948	18/981,024	12/13/2024			U.S.A.
1949	1020240139563	10/14/2024			KOREA
1950	1020240139570	10/14/2024			KOREA
1951	1020240139573	10/14/2024			KOREA
1952	1020250002496	1/7/2025			KOREA
1953	1020240133839	10/2/2024			KOREA
1954	1020240133840	10/2/2024			KOREA
1955	1020240125182	9/12/2024			KOREA
1956	1020240134333	10/2/2024			KOREA
1957	1020240134334	10/2/2024			KOREA
1958	202380039357.8	11/8/2024			CHINA
1959	23803845.9	12/3/2024			EPO (European patent)
1960	18/864,420	11/8/2024			U.S.A.
1961	23788639.5	11/12/2024			EPO (European patent)
1962	18/856,876	10/14/2024			U.S.A.
1963	1020250014377	2/5/2025			KOREA
1964	1020240130292	9/25/2024			KOREA
1965	1020250005064	1/13/2025			KOREA
1966	PCT/KR2024/014570	9/26/2024			WIPO (PCT)
1967	PCT/KR2024/014569	9/26/2024			WIPO (PCT)
1968	1020240130305	9/25/2024			KOREA
1969	1020240130306	9/25/2024			KOREA
1970	1020240131175	9/26/2024			KOREA
1971	1020250014378	2/5/2025			KOREA
1972	1020240133342	9/30/2024			KOREA
1973	1020240133890	10/2/2024			KOREA
1974	PCT/KR2024/015078	10/4/2024			WIPO (PCT)
1975	PCT/KR2024/015079	10/4/2024			WIPO (PCT)
1976	PCT/KR2024/015746	10/17/2024			WIPO (PCT)
1977	PCT/KR2024/015748	10/17/2024			WIPO (PCT)
1978	PCT/KR2024/015750	10/17/2024			WIPO (PCT)
1979	1020250021112	2/18/2025			KOREA
1980	1020250026794	2/28/2025			KOREA
1981	1020240145918	10/23/2024			KOREA
1982	202380037241.0	10/29/2024			CHINA
1983	23796787.2	10/30/2024			EPO (European patent)
1984	18/929,227	10/28/2024			U.S.A.
1985	1020240170094	11/25/2024			KOREA
1986	1020240170140	11/25/2024			KOREA
1987	1020240177187	12/3/2024			KOREA
1988	1020250034612	3/18/2025			KOREA
1989	1020250044602	4/7/2025			KOREA
1990	1020240184821	12/12/2024			KOREA
1991	1020240184822	12/12/2024			KOREA
1992	1020240159420	11/11/2024			KOREA
1993	1020240162520	11/14/2024			KOREA
1994	1020240163590	11/15/2024			KOREA
1995	1020240163593	11/15/2024			KOREA
1996	PCT/KR2024/018905	11/26/2024			WIPO (PCT)
1997	PCT/KR2024/018907	11/26/2024			WIPO (PCT)
1998	1020240193744	12/23/2024			KOREA
1999	1020250032142	3/12/2025			KOREA
2000	PCT/KR2024/019813	12/5/2024			WIPO (PCT)
2001	1020250057986	5/2/2025			KOREA
2002	1020240181543	12/9/2024			KOREA
2003	202380056858.7	1/24/2025			CHINA
2004	23850323.9	2/19/2025			EPO (European patent)
2005	19/100,546	1/31/2025			U.S.A.

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2006	202380054897.3	1/20/2025			CHINA
2007	23843258.7	2/6/2025			EPO (European patent)
2008	18/996,959	1/17/2025			U.S.A.
2009	202380058753.5	2/10/2025			CHINA
2010	23835788.3	1/28/2025			EPO (European patent)
2011	18/881,249	1/3/2025			U.S.A.
2012	1020240199727	12/30/2024			KOREA
2013	1020250004544	1/13/2025			KOREA
2014	1020250004545	1/13/2025			KOREA
2015	1020250004547	1/13/2025			KOREA
2016	1020250004548	1/13/2025			KOREA
2017	1020250018566	2/13/2025			KOREA
2018	1020250018567	2/13/2025			KOREA
2019	1020250018568	2/13/2025			KOREA
2020	1020240186410	12/13/2024			KOREA
2021	1020240191008	12/19/2024			KOREA
2022	1020240191025	12/19/2024			KOREA
2023	21803184.7	11/3/2022	4132183	2/12/2025	U.K.
2024	21803184.7	11/3/2022	4132183	2/12/2025	EPO (Unitary patent)
2025	22151627.1	1/14/2022	4030850	11/27/2024	U.K.
2026	22151627.1	1/14/2022	4030850	11/27/2024	EPO (Unitary patent)
2027	22167007.8	4/6/2022	4072210	2/12/2025	U.K.
2028	22167007.8	4/6/2022	4072210	2/12/2025	EPO (Unitary patent)
2029	25155808.6	2/4/2025			EPO (European patent)
2030	19/044,762	2/4/2025			U.S.A.
2031	1020250000556	1/2/2025			KOREA
2032	1020250000557	1/2/2025			KOREA
2033	1020250000558	1/2/2025			KOREA
2034	1020250000559	1/2/2025			KOREA
2035	1020250000560	1/2/2025			KOREA
2036	1020250000561	1/2/2025			KOREA
2037	1020250000562	1/2/2025			KOREA
2038	1020250083778	6/24/2025			KOREA
2039	1020250001521	1/6/2025			KOREA
2040	25151128.3	1/10/2025			EPO (European patent)
2041	19/017,667	1/12/2025			U.S.A.
2042	24744895.4	7/9/2025			EPO (European patent)
2043	19/274,471	7/18/2025			U.S.A.
2044	202380075038.2	4/24/2025			CHINA
2045	23883018.6	4/29/2025			EPO (European patent)
2046	19/124,278	4/24/2025			U.S.A.
2047	202380069782.1	3/28/2025			CHINA
2048	23872904.0	4/14/2025			EPO (European patent)
2049	19/116,939	3/28/2025			U.S.A.
2050	1020250010302	1/23/2025			KOREA
2051	1020250012955	2/3/2025			KOREA
2052	1020250009713	1/22/2025			KOREA
2053	1020250019190	2/14/2025			KOREA
2054	1020250011317	1/24/2025			KOREA
2055	1020250011328	1/24/2025			KOREA
2056	202380053726.9	1/14/2025			CHINA
2057	23839962.0	1/10/2025			EPO (European patent)
2058	19/017,847	1/13/2025			U.S.A.
2059	1020250057217	4/30/2025			KOREA
2060	1020250005059	1/13/2025			KOREA
2061	1020250005060	1/13/2025			KOREA
2062	1020250005061	1/13/2025			KOREA
2063	1020250063325	5/15/2025			KOREA
2064	1020250009518	1/22/2025			KOREA

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2065	1020250018329	2/12/2025			KOREA
2066	1020250028187	3/5/2025			KOREA
2067	1020250028188	3/5/2025			KOREA
2068	1020250028189	3/5/2025			KOREA
2069	1020250010815	1/24/2025			KOREA
2070	1020250037031	3/24/2025			KOREA
2071	1020250037440	3/24/2025			KOREA
2072	1020250037038	3/24/2025			KOREA
2073	1020250037054	3/24/2025			KOREA
2074	1020250011341	1/24/2025			KOREA
2075	1020250014679	2/5/2025			KOREA
2076	1020250014694	2/5/2025			KOREA
2077	PCT/KR2024/015080	10/4/2024			WIPO (PCT)
2078	PCT/KR2024/015081	10/4/2024			WIPO (PCT)
2079	202380057609.X	2/5/2025			CHINA
2080	23850508.5	2/3/2025			EPO (European patent)
2081	19/100,970	2/4/2025			U.S.A.
2082	202380056476.4	1/24/2025			CHINA
2083	23850294.2	1/24/2025			EPO (European patent)
2084	19/043,476	2/2/2025			U.S.A.
2085	1020250009457	1/22/2025			KOREA
2086	1020250015438	2/6/2025			KOREA
2087	25155850.8	2/4/2025			EPO (European patent)
2088	19/044,774	2/4/2025			U.S.A.
2089	25155804.5	2/4/2025			EPO (European patent)
2090	19/044,786	2/4/2025			U.S.A.
2091	25155853.2	2/4/2025			EPO (European patent)
2092	19/045,595	2/4/2025			U.S.A.
2093	25155814.4	2/4/2025			EPO (European patent)
2094	19/044,804	2/4/2025			U.S.A.
2095	1020250012603	1/31/2025			KOREA
2096	1020250012618	1/31/2025			KOREA
2097	1020250012629	1/31/2025			KOREA
2098	1020250013252	2/3/2025			KOREA
2099	1020250030531	3/10/2025			KOREA
2100	1020250019000	2/13/2025			KOREA
2101	1020250019001	2/13/2025			KOREA
2102	1020250019515	2/14/2025			KOREA
2103	1020250019003	2/13/2025			KOREA
2104	1020250015460	2/6/2025			KOREA
2105	1020250016185	2/7/2025			KOREA
2106	1020250015476	2/6/2025			KOREA
2107	1020250015493	2/6/2025			KOREA
2108	1020250015498	2/6/2025			KOREA
2109	1020250015499	2/6/2025			KOREA
2110	202510171370.X	2/17/2025			CHINA
2111	25157990.0	2/14/2025			EPO (European patent)
2112	19/054,906	2/16/2025			U.S.A.
2113	1020250018907	2/13/2025			KOREA
2114	PCT/KR2025/099376	2/14/2025			WIPO (PCT)
2115	PCT/KR2025/099377	2/14/2025			WIPO (PCT)
2116	1020250021045	2/18/2025			KOREA
2117	PCT/KR2025/002190	2/14/2025			WIPO (PCT)
2118	1020250069942	5/28/2025			KOREA
2119	202510182925.0	2/19/2025			CHINA
2120	25158602.0	2/18/2025			EPO (European patent)
2121	19/057,948	2/19/2025			U.S.A.
2122	202510182774.9	2/19/2025			CHINA
2123	25158604.6	2/18/2025			EPO (European patent)

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2124	19/056,686	2/18/2025			U.S.A.
2125	PCT/KR2025/099466	2/19/2025			WIPO (PCT)
2126	1020250092047	7/9/2025			KOREA
2127	1020250077000	6/12/2025			KOREA
2128	PCT/KR2025/099149	1/31/2025			WIPO (PCT)
2129	202510195292.7	2/21/2025			CHINA
2130	25159054.3	2/20/2025			EPO (European patent)
2131	19/058,494	2/20/2025			U.S.A.
2132	PCT/KR2025/099152	1/31/2025			WIPO (PCT)
2133	PCT/KR2025/099153	1/31/2025			WIPO (PCT)
2134	19/116,953	3/28/2025			U.S.A.
2135	1020250043484	4/3/2025			KOREA
2136	202380075747.0	4/27/2025			CHINA
2137	23883152.3	5/9/2025			EPO (European patent)
2138	19/125,261	4/28/2025			U.S.A.
2139	202380072538.0	4/11/2025			CHINA
2140	23877665.2	5/2/2025			EPO (European patent)
2141	19/120,749	4/11/2025			U.S.A.
2142	PCT/KR2025/002999	3/6/2025			WIPO (PCT)
2143	PCT/KR2025/003000	3/6/2025			WIPO (PCT)
2144	PCT/KR2025/099598	3/6/2025			WIPO (PCT)
2145	PCT/KR2025/002138	2/13/2025			WIPO (PCT)
2146	1020250029274	3/6/2025			KOREA
2147	1020250029281	3/6/2025			KOREA
2148	1020250029287	3/6/2025			KOREA
2149	1020250029290	3/6/2025			KOREA
2150	1020250034375	3/18/2025			KOREA
2151	1020250037734	3/25/2025			KOREA
2152	1020250037878	3/25/2025			KOREA
2153	1020250044690	4/7/2025			KOREA
2154	1020250077143	6/12/2025			KOREA
2155	19192970	4/29/2025			U.S.A.
2156	19/083,364	3/18/2025			U.S.A.
2157	1020250043636	4/3/2025			KOREA
2158	1020250055353	4/28/2025			KOREA
2159	1020250055354	4/28/2025			KOREA
2160	1020250036907	3/21/2025			KOREA
2161	1020250036909	3/21/2025			KOREA
2162	1020250036908	3/21/2025			KOREA
2163	1020250037413	3/24/2025			KOREA
2164	1020250037488	3/24/2025			KOREA
2165	1020250037377	3/24/2025			KOREA
2166	1020250038372	3/25/2025			KOREA
2167	1020250038373	3/25/2025			KOREA
2168	1020250038370	3/25/2025			KOREA
2169	1020250039070	3/26/2025			KOREA
2170	1020250039074	3/26/2025			KOREA
2171	1020250039079	3/26/2025			KOREA
2172	1020250099319	7/22/2025			KOREA
2173	PCT/KR2025/003769	3/25/2025			WIPO (PCT)
2174	PCT/KR2025/003774	3/25/2025			WIPO (PCT)
2175	PCT/KR2025/003776	3/25/2025			WIPO (PCT)
2176	PCT/KR2025/003778	3/25/2025			WIPO (PCT)
2177	1020250039851	3/27/2025			KOREA
2178	1020250043747	4/3/2025			KOREA
2179	1020250043748	4/3/2025			KOREA
2180	1020250040192	3/28/2025			KOREA
2181	1020250040626	3/28/2025			KOREA
2182	PCT/KR2025/002186	2/14/2025			WIPO (PCT)

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2183	PCT/KR2025/002185	2/14/2025			WIPO (PCT)
2184	PCT/KR2025/099421	2/17/2025			WIPO (PCT)
2185	PCT/KR2025/099379	2/14/2025			WIPO (PCT)
2186	PCT/KR2025/099447	2/19/2025			WIPO (PCT)
2187	PCT/KR2025/099150	1/31/2025			WIPO (PCT)
2188	PCT/KR2025/099299	2/6/2025			WIPO (PCT)
2189	PCT/KR2025/001764	2/6/2025			WIPO (PCT)
2190	PCT/KR2025/001843	2/7/2025			WIPO (PCT)
2191	1020250049915	4/17/2025			KOREA
2192	202510433361.3	4/8/2025			CHINA
2193	25169222.4	4/8/2025			EPO (European patent)
2194	19/174,858	4/9/2025			U.S.A.
2195	202510438816.0	4/9/2025			CHINA
2196	25169214.1	4/8/2025			EPO (European patent)
2197	19/174,880	4/9/2025			U.S.A.
2198	1020250045766	4/8/2025			KOREA
2199	1020250045771	4/8/2025			KOREA
2200	1020250045774	4/8/2025			KOREA
2201	1020250046929	4/10/2025			KOREA
2202	1020250047375	4/11/2025			KOREA
2203	1020250052020	4/22/2025			KOREA
2204	1020250052021	4/22/2025			KOREA
2205	1020250055719	4/28/2025			KOREA
2206	1020250050990	4/18/2025			KOREA
2207	1020250064786	5/19/2025			KOREA
2208	1020250100207	7/24/2025			KOREA
2209	25175302.6	5/9/2025			EPO (European patent)
2210	19/203,711	5/9/2025			U.S.A.
2211	1020250090821	7/7/2025			KOREA
2212	1020250056520	4/29/2025			KOREA
2213	1020250056681	4/29/2025			KOREA
2214	202510564575.4	4/30/2025			CHINA
2215	25173549.4	4/30/2025			EPO (European patent)
2216	19/197,049	5/2/2025			U.S.A.
2217	202510565156.2	4/30/2025			CHINA
2218	25173555.1	4/30/2025			EPO (European patent)
2219	19/197,068	5/2/2025			U.S.A.
2220	PCT/KR2025/005937	4/30/2025			WIPO (PCT)
2221	PCT/KR2025/005938	4/30/2025			WIPO (PCT)
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2223	1020250057639	4/30/2025			KOREA
2224	202510593947.6	5/9/2025			CHINA
2225	25175022.0	5/8/2025			EPO (European patent)
2226	19/203,634	5/9/2025			U.S.A.
2227	1020250059940	5/8/2025			KOREA
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2229	1020250060719	5/9/2025			KOREA
2230	1020250053838	4/24/2025			KOREA
2231	1020250053839	4/24/2025			KOREA
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2247	202510417109.3	4/3/2025			CHINA
2248	25167927.0	4/2/2025			EPO (European patent)
2249	19/169,994	4/3/2025			U.S.A.
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2252	PCT/KR2025/004626	4/4/2025			WIPO (PCT)
2253	PCT/KR2025/004631	4/4/2025			WIPO (PCT)
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2259	1020250078203	6/13/2025			KOREA
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2266	25187718.9	7/7/2025			EPO (European patent)
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2759	1020090004755	1/20/2009	10-1014921	2/8/2011	KOREA
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2771	1020080111675	11/11/2008	10-1017497	2/17/2011	KOREA
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