



LG Electronics Inc.

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CA 2,482,015	KR 10-1128819	KR 1,405,989
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CA 2,575,037 - Exp. Oct 6, 2020	KR 10-1284632	KR 1,467,807
CA 2,575,038 - Exp. Oct 6, 2020	KR 10-1285670	KR 1,467,809
CA 2,628,000 - Exp. Oct 6, 2020	KR 10-1285671	KR 1,467,810
CA 2,629,277 - Exp. Oct 6, 2020	KR 10-1285673	KR 1,467,811
CA 2,630,140 - Exp. Oct 6, 2020	KR 10-1285674	KR 1,467,812
CA 2,688,848 - Exp. Oct 6, 2020	KR 820,154	KR 1,467,813
CA 2,688,849 - Exp. Oct 6, 2020	KR 848,653	KR 1,467,814
CA 2,688,851 - Exp. Oct 6, 2020	KR 962,937	KR 1,467,815
CA 2,688,917 - Exp. Oct 6, 2020	KR 962,938	KR 1,467,816
CA 2,688,918 - Exp. Oct 6, 2020	KR 962,939	KR 1,490,273
CA 2,688,919 - Exp. Oct 6, 2020	KR 962,940	KR 1,490,274
CA 2,688,931 - Exp. Oct 6, 2020	KR 962,941	KR 1,490,275
CA 2,688,933 - Exp. Oct 6, 2020	KR 962,942	KR 1,490,276
CA 2,689,061 - Exp. Oct 6, 2020	KR 962,943	KR 1,490,277
CA 2,689,063 - Exp. Oct 6, 2020	KR 978,504	KR 1,490,278
CA 2,689,070 - Exp. Oct 6, 2020	KR 978,505	KR 1,490,279
CA 2,704,055	KR 980,047	KR 1,490,280
CA 2,730,368 - Exp. Oct 6, 2020	KR 1,019,486	KR 1,490,281
CA 2,730,576 - Exp. Oct 6, 2020	KR 1,019,487	KR 1,507,872
CA 2,730,840 - Exp. Oct 6, 2020	KR 1,165,645	KR 1,520,715
CA 2,736,037	KR 1,208,562	KR 1,520,716
CA 2,736,049	KR 1,314,629	KR 1,520,717
CA 2,736,071	KR 1,314,630	KR 1,520,718
CA 2,736,089	KR 1,314,631	KR 1,537,627
CA 2,767,311 - Exp. Oct 6, 2020	KR 1,328,968	US 7,051,359
CA 2,775,719	KR 1,341,539	US 7,051,361
CA 2,775,955	KR 1,341,544	US 7,073,194 - Exp. Nov 15, 2020
CA 2,796,906 - Exp. Oct 6, 2020	KR 1,342,380	US 7,080,401 - Exp. Dec 2, 2020
CA 2,796,926 - Exp. Oct 6, 2020	KR 1,342,381	US 7,100,189 - Exp. Dec 27, 2020
CA 2,797,143 - Exp. Oct 6, 2020	KR 1,342,382	US 7,424,729
CA 2,797,145 - Exp. Oct 6, 2020	KR 1,342,384	US 7,426,742
CA 2,797,146 - Exp. Oct 6, 2020	KR 1,342,387	US 7,428,745
CN 00136652.1 - Exp. Oct 8, 2020	KR 1,342,388	US 7,448,064 - Exp. Nov 15, 2020
CN 200410082420.5	KR 1,342,389	US 7,469,415 - Exp. Nov 15, 2020
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KR 10-1012394	KR 1,405,982	US 7,714,933
KR 10-1012395	KR 1,405,983	US 7,719,615
KR 10-1012396	KR 1,405,984	US 7,735,112 - Exp. Oct 9, 2020
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US 7,757,257	US 8,510,777	US 8,739,209 - Exp. Oct 9, 2020
US 7,757,266 - Exp. Oct 9, 2020	US 8,516,526	US 8,743,282
US 7,761,894	US 8,522,285	US 8,743,283
US 7,761,895	US 8,522,286	US 8,749,705
US 7,761,896	US 8,539,521 - Exp. Oct 9, 2020	US 8,752,082 - Exp. Oct 9, 2020
US 7,765,572	US 8,539,522 - Exp. Oct 9, 2020	US 8,754,985
US 7,779,447 - Exp. Nov 15, 2020	US 8,544,041 - Exp. Oct 9, 2020	US 8,754,986
US 7,779,448 - Exp. Nov 15, 2020	US 8,549,562	US 8,760,576
US 7,802,289 - Exp. Nov 15, 2020	US 8,555,307 - Exp. Oct 9, 2020	US 8,776,128
US 7,814,529 - Exp. Oct 9, 2020	US 8,561,112	US 8,776,129
US 7,814,530 - Exp. Oct 9, 2020	US 8,605,216	US 8,776,130
US 7,831,994 - Exp. Oct 9, 2020	US 8,621,522	US 8,776,131
US 7,836,468	US 8,627,375	US 8,776,135
US 7,836,469	US 8,631,442	US 8,780,268
US 7,849,484	US 8,631,443	US 8,782,695 - Exp. Oct 9, 2020
US 7,853,976	US 8,631,444	US 8,782,705
US 7,877,769	US 8,631,445	US 8,782,707
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US 7,877,772	US 8,635,648	US 8,789,112
US 7,877,773	US 8,635,650	US 8,792,055
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US 7,882,535 - Exp. Oct 9, 2020	US 8,640,169	US 8,793,741
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US 7,886,331 - Exp. Oct 9, 2020	US 8,646,004	US 8,799,960
US 7,917,926	US 8,646,007	US 8,806,539
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Addendum of Patents of Terminated Licensors

Each patent listed below was contributed to the ATSC Patent Portfolio Licensing Program by an entity that has terminated as a licensor from the ATSC Patent Portfolio Licensing Program. For as long as they continue to be a Licensee, those Licensees with an ATSC Patent Portfolio License in effect prior to the date of termination retain their license under the respective patent and all ATSC Essential Patents that the Licensor and its Affiliates presently or in the future has the right to license or sublicense after the indicated termination date.

Samsung Electronics Co., Ltd. (terminated November 4, 2015)*

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*Date as determined by a New York court on September 20, 2018.