

Dolby Laboratories Licensing Corporation

CA 2,406,459

Koninklijke Philips N.V.

AT 1181829
BE 1181829
CH 1181829
CN 01800439.3
CY 1181829
DE 1181829
DK 1181829
ES 1181829
FI 1181829
FR 1181829
GB 1181829
GR 1181829
IE 1181829
IN 208695
IT 1181829
KR 786,548
LI 1181829
LU 1181829
MC 1181829
MX 251557
NL 1181829
PT 1181829
RU 2268554
SE 1181829
TR 1181829
US 6,959,046

LG Electronics Inc.

US Re. 40,177
US Re. 41,089 - Expires June 23, 2019

Mitsubishi Electric Corporation

MX 224994
US 7,469,008
US 7,469,009
US 7,720,149
US 8,005,143
US 8,036,277
US 8,036,278
US 8,036,279
US 8,040,955
US 8,045,617

US 8,045,624
US 8,054,889
US 8,170,105
US 8,194,742

Panasonic Corporation

BR PI9804752-3
BR PI9805978-5
MY 118198
MY 127668
MY 129889-A
US 7,010,035

Siemens AG

BR PI0109962-0
CA 2,406,164
CN 1122419 C - Expires June 30, 2019
CN 1204752
DE 501 03 996.1
DE 599 01 416.4
FR 1,110,407
FR 1,279,291
GB 1,110,407
GB 1,279,291
IT 27721/BE/2002
RU 2270530
US 7,068,721

Sony Corporation

MY 110,794 - Expires April 30, 2019

Sun Patent Trust

BR PI9702224-1
BR PI9801156-1
BR PI9904785-3
MY 119926-A
MY 124052
MY 129665
US 7,155,110
US 7,394,941
US 7,995,654

Toshiba Corporation

AU 758372
BR PI9708223-6
BR PI9715336-2

CA 2,367,055
CN 00806138.6
US 7,027,517

British Telecommunications plc

GB 448,590 - Expired December 12, 2009
JP 2,046,808 - Expired December 12, 2009
US 5,291,284 - Expired February 28, 2011

CableTelevision Laboratories, Inc.

US 6,510,554 - Expired April 26, 2018

Calmare Therapeutics Incorporated

US 6,134,269 - Expired March 6, 2017
US 6,580,834 - Expired December 11, 2017

Canon Inc.

US 4,982,270 - Expired February 2, 2009

CIF Licensing, LLC

AT 182243 - Expired May 18, 2011
AU 627421-B2 - Expired May 30, 2011
BE 0467040 - Expired May 18, 2011
CA 2044118-6 - Expired June 7, 2011
CH 0467040 - Expired May 18, 2011
DE 69131438.1 - Expired May 18, 2011
DK 0467040 - Expired May 18, 2011
ES 0467040 - Expired May 18, 2011
FR 0467040 - Expired May 18, 2011
GB 0467040 - Expired May 18, 2011
GR 0467040 - Expired May 18, 2011
HK 1013759 - Expired May 18, 2011
IE 81694 - Expired May 10, 2011
IT 0467040 - Expired May 18, 2011
LI 0467040 - Expired May 18, 2011
NL 0467040 - Expired May 18, 2011
NO 179890-C - Expired June 13, 2011
SE 0467040 - Expired May 18, 2011
TW NI-52990 - Expired May 14, 2011
US 5,068,724 - Expired June 14, 2010

Dolby International AB

JP 2,951,861 - Expired March 10, 2009
JP 3,145,908 - Expired November 28, 2015
JP 3,277,116 - Expired March 18, 2016
JP 3,654,664 - Expired August 23, 2014
JP 3,702,178 - Expired October 12, 2015
JP 3,734,488 - Expired August 23, 2014
JP 4,134,078 - Expired March 18, 2016

JP 4,245,587 - Expired August 23, 2014

JP 4,427,553 - Expired March 18, 2016

Dolby Laboratories Licensing Corporation

US Re. 43,360 - Expired May 22, 2018

US Re. 44,235 - Expired May 22, 2018

US Re. 45,082 - Expired May 22, 2018

US 6,681,050 - Expired October 7, 2016

US 6,687,409 - Expired October 7, 2016

US 6,728,317 - Expired January 29, 2016

US 7,167,590 - Expired October 7, 2016

US 7,194,136 - Expired October 7, 2016

US 7,340,102 - Expired October 7, 2016

Fujiitsu Limited

DE 69735028 - Expired January 31, 2017

DE 69738264.8 - Expired January 31, 2017

FR 1,455,536 - Expired July 31, 2016

FR 1,648,176 - Expired July 31, 2016

GB 1,455,536 - Expired July 8, 2016

GB 1,648,176 - Expired July 8, 2016

JP 3,466,032 - Expired August 28, 2016

US 5,235,618 - Expired November 5, 2010

US 6,104,434 - Expired June 16, 2017

US 6,282,243 - Expired November 17, 2017

US 6,333,949 - Expired June 16, 2017

GE Technology Development, Inc.

DE 3855203 - Expired December 1, 2008

DE 59801516 - Expired January 7, 2018

DE 59808075 - Expired May 5, 2018

ES 2164412 - Expired January 7, 2018

ES 2198058 - Expired May 5, 2018

FR 395,709 - Expired December 1, 2008

FR 956,703 - Expired January 7, 2018

FR 981,909 - Expired May 5, 2018

GB 395,709 - Expired December 1, 2008

GB 956,703 - Expired January 7, 2018

GB 981,909 - Expired May 5, 2018

HK 1004307 - Expired December 1, 2008

IT 956,703 - Expired January 7, 2018

IT 981,909 - Expired May 5, 2018

JP 2,790,509 - Expired December 1, 2008

NL 956,703 - Expired January 7, 2018

NL 981,909 - Expired May 5, 2018

SE 956,703 - Expired January 7, 2018

SE 981,909 - Expired May 5, 2018

SG 63561 - Expired December 1, 2008

US 4,706,260 - Expired November 6, 2006
US 4,813,056 - Expired December 7, 2007
US 6,408,025 - Expired January 18, 2018

Google LLC

CA 2,079,862 - Expired October 5, 2012
CA 2,230,562 - Expired February 25, 2018
CA 2,230,567 - Expired February 25, 2018
DE 69232063.6 - Expired October 6, 2012
GB 0538667 - Expired October 6, 2012
MX 205438 - Expired March 6, 2018
US Re. 38,563 - Expired October 5, 2017
US 5,235,419 - Expired October 23, 2011
US 6,005,980 - Expired July 20, 2017

Hitachi, Ltd.

CN 00120208.1 - Expired June 9, 2018
CN 98102981.7 - Expired June 9, 2018
CN 200310113824.1 - Expired June 9, 2018
CN 200310113825.6 - Expired June 9, 2018
CN 200510055880.3 - Expired June 8, 2018
CN 200510055881.8 - Expired June 8, 2018
CN 200510059461.7 - Expired June 8, 2018
DE 69808519.1 - Expired June 8, 2018
DE 69817460 - Expired June 8, 2018
DE 69,842,968 - Expired June 8, 2018
DE 69843113 - Expired June 8, 2018
DE 69843114 - Expired June 8, 2018
DE 69843115 - Expired June 8, 2018
DE 698 43 432.3 - Expired June 8, 2018
DE 698 43 436.6 - Expired June 8, 2018
DE 698 43 437.4 - Expired June 8, 2018
DE 698 43 486.2 - Expired June 8, 2018
ES 1,237,376 - Expired June 8, 2018
ES 2205323 - Expired June 8, 2018
ES 2,271,116 - Expired June 8, 2018
ES 2,271,117 - Expired June 8, 2018
ES 2,285,119 - Expired June 8, 2018
ES 2,288,164 - Expired June 8, 2018
ES 2,288,165 - Expired June 8, 2018
ES 2,288,166 - Expired June 8, 2018
ES 2,405,318 - Expired June 8, 2018
FI 884,912 - Expired June 8, 2018
FI 1056294 - Expired June 8, 2018
FI 1,237,376 - Expired June 8, 2018
FI 1,237,377 - Expired June 8, 2018
FI 2,271,116 - Expired June 8, 2018
FI 2,271,117 - Expired June 8, 2018
FI 2,285,119 - Expired June 8, 2018

FI 2,288,164 - Expired June 8, 2018
FI 2,288,165 - Expired June 8, 2018
FI 2,288,166 - Expired June 8, 2018
FR 884,912 - Expired June 8, 2018
FR 1056294 - Expired June 8, 2018
FR 1,237,376 - Expired June 8, 2018
FR 1,237,377 - Expired June 8, 2018
FR 2,271,116 - Expired June 8, 2018
FR 2,271,117 - Expired June 8, 2018
FR 2,285,119 - Expired June 8, 2018
FR 2,288,164 - Expired June 8, 2018
FR 2,288,165 - Expired June 8, 2018
FR 2,288,166 - Expired June 8, 2018
GB 884,912 - Expired June 8, 2018
GB 1056294 - Expired June 8, 2018
GB 1,237,376 - Expired June 8, 2018
GB 1,237,377 - Expired June 8, 2018
GB 2,271,116 - Expired June 8, 2018
GB 2,271,117 - Expired June 8, 2018
GB 2,285,119 - Expired June 8, 2018
GB 2,288,164 - Expired June 8, 2018
GB 2,288,165 - Expired June 8, 2018
GB 2,288,166 - Expired June 8, 2018
IT 884,912 - Expired June 8, 2018
IT 1,237,376 - Expired June 8, 2018
IT 1,237,377 - Expired June 8, 2018
IT 2,271,116 - Expired June 8, 2018
IT 2,271,117 - Expired June 8, 2018
IT 2,285,119 - Expired June 8, 2018
IT 2,288,164 - Expired June 8, 2018
IT 2,288,165 - Expired June 8, 2018
IT 2,288,166 - Expired June 8, 2018
JP 2,998,741 - Expired June 9, 2018
JP 3,092,610 - Expired June 9, 2018
JP 3,092,613 - Expired June 9, 2018
JP 3,191,935 - Expired November 30, 2010
JP 3,218,874 - Expired August 18, 2014
JP 3,265,287 - Expired August 29, 2010
JP 3,303,869 - Expired November 30, 2010
JP 3,407,726 - Expired June 9, 2018
JP 3,407,727 - Expired June 9, 2018
JP 3,410,037 - Expired June 9, 2018
JP 3,414,304 - Expired August 18, 2014
JP 3,509,610 - Expired August 18, 2014
JP 3,591,483 - Expired August 18, 2014
JP 3,864,977 - Expired August 18, 2014
JP 3,921,441 - Expired August 18, 2014
JP 4,066,817 - Expired June 9, 2018
JP 4,078,212 - Expired June 9, 2018
JP 4,095,762 - Expired June 9, 2018
JP 4,918,946 - Expired June 9, 2018

JP 5,257,543 - Expired June 9, 2018
JP 5,257,544 - Expired June 9, 2018
JP 5,257,545 - Expired June 9, 2018
JP 5,376,083 - Expired June 9, 2018
JP 5,392,434 - Expired June 9, 2018
KR 393,123 - Expired June 8, 2018
KR 393,125 - Expired June 8, 2018
KR 400,537 - Expired June 8, 2018
KR 400,538 - Expired June 8, 2018
NL 884,912 - Expired June 8, 2018
NL 1,237,376 - Expired June 8, 2018
NL 1,237,377 - Expired June 8, 2018
NL 2,271,116 - Expired June 8, 2018
NL 2,271,117 - Expired June 8, 2018
NL 2,285,119 - Expired June 8, 2018
NL 2,288,164 - Expired June 8, 2018
NL 2,288,165 - Expired June 8, 2018
NL 2,288,166 - Expired June 8, 2018
SE 884,912 - Expired June 8, 2018
SE 1056294 - Expired June 8, 2018
SE 1,237,376 - Expired June 8, 2018
SE 1,237,377 - Expired June 8, 2018
SE 2,271,116 - Expired June 8, 2018
SE 2,271,117 - Expired June 8, 2018
SE 2,285,119 - Expired June 8, 2018
SE 2,288,164 - Expired June 8, 2018
SE 2,288,165 - Expired June 8, 2018
SE 2,288,166 - Expired June 8, 2018
TW 122,869 - Expired July 3, 2018
TW 144,701 - Expired July 3, 2018
US 5,963,259 - Expired August 16, 2015
US 6,008,852 - Expired March 16, 2017
US 6,178,202 - Expired March 16, 2017
US 6,285,713 - Expired August 16, 2015
US 6,295,376 - Expired June 7, 2018
US 6,442,205 - Expired April 30, 2017
US 6,483,877 - Expired March 16, 2017
US 6,516,033 - Expired August 16, 2015
US 6,567,558 - Expired June 7, 2018
US 6,574,371 - Expired June 7, 2018
US 6,584,227 - Expired June 7, 2018
US 6,606,419 - Expired June 7, 2018
US 6,631,214 - Expired June 7, 2018
US 6,643,409 - Expired June 7, 2018
US 6,650,781 - Expired June 7, 2018
US 6,868,185 - Expired July 20, 2018
US 6,909,809 - Expired August 6, 2018
US 6,915,013 - Expired August 20, 2018
US 7,072,518 - Expired June 12, 2018
US 7,133,454 - Expired August 16, 2015
US 7,184,601 - Expired June 12, 2018

US 7,248,742 - Expired June 12, 2018
US 7,251,369 - Expired July 20, 2018
US 7,421,133 - Expired June 7, 2018
US 7,424,161 - Expired June 7, 2018
US 7,426,307 - Expired June 7, 2018
US 7,471,836 - Expired June 7, 2018
US 7,668,384 - Expired June 7, 2018
US 7,676,100 - Expired June 7, 2018
US 7,702,166 - Expired June 7, 2018
US 7,702,167 - Expired June 7, 2018
US 7,724,966 - Expired June 7, 2018
US 7,724,967 - Expired June 7, 2018
US 7,724,968 - Expired June 7, 2018
US 7,724,969 - Expired June 7, 2018
US 7,801,366 - Expired June 7, 2018
US 7,801,367 - Expired June 7, 2018
US 7,801,368 - Expired June 7, 2018
US 7,801,369 - Expired June 7, 2018
US 7,801,370 - Expired June 7, 2018
US 7,801,371 - Expired June 7, 2018
US 7,801,372 - Expired June 7, 2018
US 7,801,373 - Expired June 7, 2018
US 7,801,374 - Expired June 7, 2018
US 7,801,375 - Expired June 7, 2018
US 7,801,376 - Expired June 7, 2018
US 7,801,377 - Expired June 7, 2018
US 7,801,378 - Expired June 7, 2018
US 7,801,379 - Expired June 7, 2018
US 7,801,380 - Expired June 7, 2018
US 7,801,381 - Expired June 7, 2018
US 7,929,779 - Expired June 7, 2018
US 7,929,780 - Expired June 7, 2018
US 7,929,781 - Expired June 7, 2018
US 7,929,782 - Expired June 7, 2018
US 7,929,783 - Expired June 7, 2018
US 7,929,784 - Expired June 7, 2018
US 7,929,785 - Expired June 7, 2018
US 7,929,786 - Expired June 7, 2018
US 7,929,787 - Expired June 7, 2018
US 7,929,788 - Expired June 7, 2018
US 7,929,789 - Expired June 7, 2018
US 7,933,457 - Expired June 7, 2018
US 7,936,934 - Expired June 7, 2018
US 7,936,935 - Expired June 7, 2018
US 8,160,373 - Expired June 7, 2018
US 8,204,110 - Expired March 16, 2017
US 8,233,543 - Expired March 16, 2017
US 8,611,683 - Expired June 7, 2018
US 8,611,684 - Expired June 7, 2018
US 8,611,685 - Expired June 7, 2018
US 8,615,139 - Expired June 7, 2018

US 8,625,915 - Expired June 7, 2018
US 8,649,618 - Expired June 7, 2018
US 8,649,619 - Expired June 7, 2018
US 8,675,977 - Expired June 7, 2018
US 8,942,492 - Expired June 7, 2018
US 8,942,497 - Expired June 7, 2018
US 8,942,498 - Expired June 7, 2018
US 8,942,499 - Expired June 7, 2018
US 8,942,500 - Expired June 7, 2018
US 8,942,501 - Expired June 7, 2018
US 8,942,504 - Expired June 7, 2018
US 8,948,527 - Expired June 7, 2018
US 9,161,044 - Expired June 7, 2018
US 9,161,045 - Expired June 7, 2018
US 9,161,051 - Expired June 7, 2018
US 9,161,052 - Expired June 7, 2018
US 9,161,053 - Expired June 7, 2018
US 9,161,054 - Expired June 7, 2018
US 9,161,055 - Expired June 7, 2018
US 9,167,262 - Expired June 7, 2018

JVC KENWOOD Corporation

DE 69024235 - Expired January 19, 2010
DE 69030819 - Expired January 19, 2010
DE 69031045 - Expired April 27, 2010
FR 379,217 - Expired January 19, 2010
FR 572,046 - Expired January 19, 2010
FR 584,840 - Expired April 27, 2010
GB 379,217 - Expired January 19, 2010
GB 572,046 - Expired January 19, 2010
GB 584,840 - Expired April 27, 2010
JP 2,072,546 - Expired February 14, 2009
JP 2,137,325 - Expired April 27, 2009
NL 584,840 - Expired April 27, 2010
US Re. 34,965 - Expired January 17, 2010
US Re. 35,158 - Expired January 17, 2010

KDDI Corporation

JP 1,835,550 - Expired March 14, 2006

Koninklijke Philips N.V.

AT 157830 - Expired June 3, 2011
AT 260,748 - Expired September 10, 2007
AU 641726 - Expired February 20, 2011
BE 460,751 - Expired June 3, 2011
CA 2,018,031 - Expired June 1, 2010
CA 2,036,585 - Expired February 19, 2011
CA 2,304,917 - Expired June 1, 2010

DE 3750206 - Expired September 10, 2007
DE 3855114 - Expired April 27, 2008
DE 69109346 - Expired February 18, 2011
DE 69127504 - Expired June 3, 2011
DK 443,676 - Expired February 18, 2011
DK 460,751 - Expired June 3, 2011
FI 101442 - Expired February 19, 2011
FR 260,748 - Expired September 10, 2007
FR 290,085 - Expired April 27, 2008
FR 443,676 - Expired February 18, 2011
FR 460,751 - Expired June 3, 2011
GB 260,748 - Expired September 10, 2007
GB 290,085 - Expired April 27, 2008
GB 443,676 - Expired February 18, 2011
GB 460,751 - Expired June 3, 2011
IT 52497 BE/97 - Expired June 3, 2011
IT 260,748 - Expired September 10, 2007
IT 443,676 - Expired February 18, 2011
JP 2,630,809 - Expired May 6, 2008
JP 2,711,665 - Expired September 14, 2007
JP 2,791,822 - Expired June 2, 2010
JP 3,162,110 - Expired June 4, 2011
JP 3,174,586 - Expired February 20, 2011
KR 118,698 - Expired April 17, 2012
NL 260,748 - Expired September 10, 2007
NL 443,676 - Expired February 18, 2011
NL 460,751 - Expired June 3, 2011
SE 260,748 - Expired September 10, 2007
SE 443,676 - Expired February 18, 2011
SE 460,751 - Expired June 3, 2011
SG 9690467.7 - Expired February 18, 2011
US 4,901,075 - Expired September 10, 2007
US 5,021,879 - Expired June 3, 2008
US 5,128,758 - Expired July 6, 2009
US 5,179,442 - Expired January 11, 2010
US 5,606,539 - Expired February 24, 2014
US 5,608,697 - Expired June 4, 2011
US 5,699,476 - Expired October 18, 2010
US 5,740,310 - Expired April 13, 2015
US 5,844,867 - Expired June 4, 2011

LG Electronics Inc.

KR 86,346 - Expired April 11, 2012
KR 155,642 - Expired March 9, 2015
KR 251,549 - Expired February 28, 2017
KR 617,598 - Expired December 30, 2017
KR 757,829 - Expired December 30, 2017
KR 757,830 - Expired December 30, 2017
KR 757,831 - Expired December 30, 2017
KR 757,832 - Expired December 30, 2017

US Re. 37,568 - Expired March 31, 2014
US 4,654,484 - Expired March 31, 2004
US 6,912,351 - Expired October 18, 2018
US 7,433,525 - Expired October 18, 2018

Microsoft Corporation

US 5,748,789 - Expired October 30, 2016

Mitsubishi Electric Corporation

AU 625476 - Expired August 20, 2010
CA 2,023,543 - Expired August 17, 2010
CA 2,327,489 - Expired October 21, 2012
CN 97182488.6 - Expired October 23, 2017
CN 98812454.8 - Expired March 6, 2018
CN 98812706.7 - Expired October 23, 2018
CN 200310124564.8 - Expired January 22, 2018
CN 200410085559.5 - Expired October 23, 2017
CN 200410085560.8 - Expired October 23, 2017
CN 200510006891.2 - Expired March 6, 2018
CN 200510007841.6 - Expired March 6, 2018
CN 200610077656.9 - Expired October 23, 2017
CN 200610079262.7 - Expired October 22, 2017
DE 69027820 - Expired August 20, 2010
DE 69721847.3 - Expired October 23, 2017
DE 69738379.2 - Expired October 23, 2017
DE 69738381.4 - Expired October 23, 2017
DE 697 38 792.5 - Expired October 23, 2017
DE 69739177.9 - Expired October 23, 2017
DE 69739377.1 - Expired October 23, 2017
DE 69739379.8 - Expired October 23, 2017
DE 69739380.1 - Expired October 23, 2017
DE 69739382.8 - Expired October 23, 2017
DE 69739383.6 - Expired October 23, 2017
DE 69739409.3 - Expired October 23, 2017
DE 69739410.7 - Expired October 23, 2017
DE 69739411.5 - Expired October 23, 2017
DE 69739412.3 - Expired October 23, 2017
DE 69739794.7 - Expired October 23, 2017
DE 69739795.5 - Expired October 23, 2017
DE 69739875 - Expired October 23, 2017
DE 69739999.0 - Expired October 23, 2017
DE 69740004.2 - Expired October 23, 2017
DE 69740005.0 - Expired October 23, 2017
DE 69740223.1 - Expired October 23, 2017
DE 69833443 - Expired October 23, 2018
DE 69841698.8 - Expired October 23, 2018
DE 69842724.6 - Expired October 23, 2018
DE 69843063 - Expired October 23, 2018
DE 69843068 - Expired October 23, 2018

DE 698 43 427.7 - Expired March 6, 2018
DE 698 43 428.5 - Expired March 6, 2018
DE 698 43 527.3 - Expired January 22, 2018
DE 698 43 528.1 - Expired January 22, 2018
FI 98421 - Expired August 21, 2010
FI 1026899 - Expired October 23, 2018
FI 1558038 - Expired October 23, 2018
FI 2,200,314 - Expired October 23, 2018
FI 2,306,721 - Expired October 23, 2018
FI 2,306,722 - Expired October 23, 2018
FR 414,193 - Expired August 20, 2010
FR 0905980 - Expired October 23, 2017
FR 1026899 - Expired October 23, 2018
FR 1032219 - Expired October 23, 2017
FR 1328125 - Expired October 23, 2017
FR 1558038 - Expired October 23, 2018
FR 1565002 - Expired October 23, 2017
FR 1565003 - Expired October 23, 2017
FR 1565004 - Expired October 23, 2017
FR 1,725,045 - Expired October 23, 2017
FR 1,725,046 - Expired October 23, 2017
FR 1,725,047 - Expired October 23, 2017
FR 1809037 - Expired October 23, 2017
FR 1809038 - Expired October 23, 2017
FR 1809039 - Expired October 23, 2017
FR 1809045 - Expired October 23, 2017
FR 1809046 - Expired October 23, 2017
FR 1809047 - Expired October 23, 2017
FR 1843599 - Expired October 23, 2017
FR 1843600 - Expired October 23, 2017
FR 1988714 - Expired October 23, 2017
FR 1988715 - Expired October 23, 2017
FR 1988716 - Expired October 23, 2017
FR 2,094,013 - Expired October 23, 2017
FR 2,200,314 - Expired October 23, 2018
FR 2,278,809 - Expired March 6, 2018
FR 2,278,811 - Expired March 6, 2018
FR 2,306,721 - Expired October 23, 2018
FR 2,306,722 - Expired October 23, 2018
FR 2,352,297 - Expired January 22, 2018
FR 2,369,847 - Expired January 22, 2018
GB 414,193 - Expired August 20, 2010
GB 0905980 - Expired October 23, 2017
GB 1026899 - Expired October 23, 2018
GB 1032219 - Expired October 23, 2017
GB 1328125 - Expired October 23, 2017
GB 1558038 - Expired October 23, 2018
GB 1565002 - Expired October 23, 2017
GB 1565003 - Expired October 23, 2017
GB 1565004 - Expired October 23, 2017
GB 1,725,045 - Expired October 23, 2017

GB 1,725,046 - Expired October 23, 2017
GB 1,725,047 - Expired October 23, 2017
GB 1809037 - Expired October 23, 2017
GB 1809038 - Expired October 23, 2017
GB 1809039 - Expired October 23, 2017
GB 1809045 - Expired October 23, 2017
GB 1809046 - Expired October 23, 2017
GB 1809047 - Expired October 23, 2017
GB 1843599 - Expired October 23, 2017
GB 1843600 - Expired October 23, 2017
GB 1988714 - Expired October 23, 2017
GB 1988715 - Expired October 23, 2017
GB 1988716 - Expired October 23, 2017
GB 2,094,013 - Expired October 23, 2017
GB 2,200,314 - Expired October 23, 2018
GB 2,278,809 - Expired March 6, 2018
GB 2,278,811 - Expired March 6, 2018
GB 2,306,721 - Expired October 23, 2018
GB 2,306,722 - Expired October 23, 2018
HK 1008129 - Expired August 20, 2010
HK 1030121 - Expired October 23, 2018
HK 1030705 - Expired October 23, 2017
HK 1079022 - Expired October 23, 2018
HK 1,079,934 - Expired October 23, 2017
HK 1,079,935 - Expired October 23, 2017
HK 1079936 - Expired October 23, 2017
HK 1,106,904 - Expired October 23, 2017
HK 1,107,887 - Expired October 23, 2017
HK 1,109,273 - Expired October 23, 2017
HK 1,109,274 - Expired October 23, 2017
HK 1,109,275 - Expired October 23, 2017
HK 1,109,276 - Expired October 23, 2017
HK 1,109,277 - Expired October 23, 2017
HK 1109538 - Expired October 23, 2017
HK 1,125,769 - Expired October 23, 2017
HK 1,125,770 - Expired October 23, 2017
HK 1,126,063 - Expired October 23, 2017
HK 1,141,653 - Expired October 23, 2018
HK 1,151,912 - Expired October 22, 2018
HK 1,152,177 - Expired October 22, 2018
IT 414,193 - Expired August 20, 2010
JP 1,869,940 - Expired March 8, 2005
JP 2,128,624 - Expired August 21, 2009
JP 2,510,456 - Expired March 8, 2005
JP 3,197,420 - Expired January 31, 2014
JP 3,386,142 - Expired October 23, 2017
JP 3,570,863 - Expired August 5, 2017
JP 3,573,759 - Expired October 23, 2017
JP 3,803,348 - Expired March 6, 2018
JP 3,803,349 - Expired March 6, 2018
JP 3,836,827 - Expired January 22, 2018

JP 3,860,323 - Expired March 6, 2018
JP 3,894,206 - Expired March 6, 2018
JP 3,907,623 - Expired November 25, 2014
JP 3,993,212 - Expired October 23, 2017
JP 3,993,213 - Expired October 23, 2017
JP 4,260,191 - Expired October 23, 2017
JP 4,260,192 - Expired October 23, 2017
JP 4,260,193 - Expired October 23, 2017
JP 4,260,194 - Expired October 23, 2017
JP 4,260,195 - Expired October 23, 2017
JP 4,350,759 - Expired October 23, 2017
JP 4,350,760 - Expired October 23, 2017
JP 4,350,761 - Expired October 23, 2017
JP 4,350,796 - Expired October 23, 2017
JP 4,708,263 - Expired March 6, 2018
KR 77,808 - Expired August 20, 2010
KR 319,944 - Expired October 23, 2017
KR 487,986 - Expired October 23, 2017
KR 487,989 - Expired October 23, 2017
KR 511,693 - Expired October 23, 2017
KR 531,566 - Expired October 23, 2017
MX 240012 - Expired March 6, 2018
MX 254373 - Expired September 14, 2018
MX 261064 - Expired March 6, 2018
MX 267,468 - Expired September 14, 2018
MX 268,337 - Expired March 6, 2018
MX 269984 - Expired October 23, 2017
MX 271,349 - Expired September 14, 2018
MX 271,350 - Expired September 14, 2018
MX 271,351 - Expired September 14, 2018
MX 281,594 - Expired October 23, 2017
MX 281,595 - Expired October 23, 2017
MX 281,612 - Expired October 23, 2017
MX 281,613 - Expired October 23, 2017
MX 281,614 - Expired October 23, 2017
MX 281,615 - Expired October 23, 2017
MX 281,616 - Expired October 23, 2017
MX 283,553 - Expired October 23, 2017
MX 283,560 - Expired October 23, 2017
MX 284,048 - Expired October 23, 2017
MX 305,021 - Expired September 14, 2018
NL 414,193 - Expired August 20, 2010
NL 0905980 - Expired October 23, 2017
NL 1026899 - Expired October 23, 2018
NL 1032219 - Expired October 23, 2017
NL 1328125 - Expired October 23, 2017
NL 1558038 - Expired October 23, 2018
NL 1565002 - Expired October 23, 2017
NL 1565003 - Expired October 23, 2017
NL 1565004 - Expired October 23, 2017
NL 1,725,045 - Expired October 23, 2017

NL 1,725,046 - Expired October 23, 2017
NL 1,725,047 - Expired October 23, 2017
NL 1809037 - Expired October 23, 2017
NL 1809038 - Expired October 23, 2017
NL 1809039 - Expired October 23, 2017
NL 1809045 - Expired October 23, 2017
NL 1809046 - Expired October 23, 2017
NL 1809047 - Expired October 23, 2017
NL 1843599 - Expired October 23, 2017
NL 1843600 - Expired October 23, 2017
NL 1988714 - Expired October 23, 2017
NL 1988715 - Expired October 23, 2017
NL 1988716 - Expired October 23, 2017
NL 2,094,013 - Expired October 23, 2017
NL 2,200,314 - Expired October 23, 2018
NL 2,278,809 - Expired March 6, 2018
NL 2,278,811 - Expired March 6, 2018
NL 2,306,721 - Expired October 23, 2018
NL 2,306,722 - Expired October 23, 2018
NO 306749 - Expired August 21, 2010
NO 310850 - Expired October 21, 2012
SE 414,193 - Expired August 20, 2010
SE 1026899 - Expired October 23, 2018
SE 1558038 - Expired October 23, 2018
SE 2,200,314 - Expired October 23, 2018
SE 2,306,721 - Expired October 23, 2018
SE 2,306,722 - Expired October 23, 2018
SG 45452 - Expired August 19, 2010
SG 72272 - Expired October 23, 2017
TW 179400 - Expired October 22, 2017
US 5,072,295 - Expired August 19, 2010
US 6,097,759 - Expired October 15, 2012
US 6,301,301 - Expired January 27, 2018
US 6,404,815 - Expired October 22, 2017
US 6,862,320 - Expired October 22, 2017
US 6,983,014 - Expired March 5, 2018
US 7,110,456 - Expired December 1, 2018
US 7,127,110 - Expired October 22, 2018
US 7,197,188 - Expired October 22, 2018
US 7,356,078 - Expired March 5, 2018
US 7,362,907 - Expired October 22, 2018
US 7,970,217 - Expired October 22, 2018
US 8,031,781 - Expired October 22, 2017
US 8,040,956 - Expired October 22, 2017
US 8,045,623 - Expired October 22, 2017
US 8,098,734 - Expired May 15, 2018
US 8,295,350 - Expired August 14, 2016
US 8,737,463 - Expired March 5, 2018

CA 2,263,855 - Expired June 25, 2018
CA 2,279,923 - Expired January 27, 2018
CN 1,208,971 - Expired January 26, 2018
CN 100466747 - Expired January 26, 2018
DE 69838281 - Expired June 25, 2018
DE 69838639.6 - Expired January 27, 2018
DE 69840082.8 - Expired January 27, 2018
DE 69841029 - Expired June 25, 2018
FR 921688 - Expired June 25, 2018
FR 0961499 - Expired January 27, 2018
FR 1809044 - Expired January 27, 2018
FR 1819173 - Expired June 25, 2018
GB 921688 - Expired June 25, 2018
GB 0961499 - Expired January 27, 2018
GB 1809044 - Expired January 27, 2018
GB 1819173 - Expired June 25, 2018
IT 0961499 - Expired January 27, 2018
IT 1809044 - Expired January 27, 2018
JP 2,562,499 - Expired May 29, 2009
JP 2,914,448 - Expired June 25, 2018
JP 2,952,226 - Expired January 22, 2018
KR 322,515 - Expired January 27, 2018
US 6,785,331 - Expired January 26, 2018
US 9,154,789 - Expired September 15, 2018

Oki Electric Industry Co., Ltd.

JP 2,898,212 - Expired December 21, 2014

Orange SA

DE 3767919 - Expired May 26, 2007
DE 3874703 - Expired November 17, 2008
FI 86,241 - Expired May 28, 2007
FR 2,599,577 - Expired May 29, 2006
GB 248,711 - Expired May 26, 2007
GB 321318 - Expired November 17, 2008
IT 248,711 - Expired May 26, 2007
IT 321318 - Expired November 17, 2008
JP 2,661,220 - Expired December 16, 2008
NL 321318 - Expired November 17, 2008
SE 248,711 - Expired May 26, 2007
SE 321318 - Expired November 17, 2008
US 4,796,087 - Expired May 31, 2007
US 4,933,762 - Expired November 27, 2008

Panasonic Corporation

AU 681818 - Expired January 31, 2016
CA 2,168,415 - Expired January 30, 2016
CN 01115939.1 - Expired July 3, 2017

CN 01115941.3 - Expired July 3, 2017
CN 01118860.X - Expired February 5, 2018
CN 01118861.8 - Expired February 5, 2018
CN 1137467.5 - Expired October 30, 2018
CN 1137469.1 - Expired October 30, 2018
CN 1137470.5 - Expired October 30, 2018
CN 1137471.3 - Expired October 30, 2018
CN 1139430.7 - Expired November 6, 2017
CN 1139431.5 - Expired November 6, 2017
CN 1139432.3 - Expired November 6, 2017
CN 1139433.1 - Expired November 6, 2017
CN 1139434.X - Expired November 6, 2017
CN 97190851.6 - Expired July 3, 2017
CN 97192067.2 - Expired November 6, 2017
CN 98121454.1 - Expired October 30, 2018
CN 98800434.8 - Expired February 5, 2018
CN 200410033475.7 - Expired July 23, 2018
CN 200410095099.4 - Expired July 3, 2017
CN 200510054265.0 - Expired November 6, 2017
DE 69620932 - Expired January 30, 2016
DE 69704481 - Expired July 3, 2017
DE 69715815 - Expired November 6, 2017
DE 69720558 - Expired November 6, 2017
DE 69724841 - Expired November 6, 2017
DE 69735679.5 - Expired November 6, 2017
DE 69735680.9 - Expired November 6, 2017
DE 69738035.1 - Expired July 3, 2017
DE 69739536.7 - Expired November 6, 2017
DE 69805036.3 - Expired October 26, 2018
DE 69805583.7 - Expired February 5, 2018
DE 69810971 - Expired October 26, 2018
DE 69812190 - Expired October 26, 2018
DE 69813311 - Expired October 26, 2018
DE 69813635.7 - Expired February 5, 2018
DE 69815722 - Expired October 26, 2018
DE 69822751 - Expired September 15, 2018
DE 69829783.0 - Expired February 5, 2018
DE 69836052.4 - Expired July 22, 2018
DE 69841007.6 - Expired February 5, 2018
ES 0893925 - Expired July 22, 2018
ES 0903042 - Expired February 5, 2018
ES 914,008 - Expired October 26, 2018
ES 1113672 - Expired February 5, 2018
ES 1113673 - Expired February 5, 2018
ES 1343330 - Expired July 3, 2017
ES 1397006 - Expired February 5, 2018
ES 2158570 - Expired July 3, 2017
ES 2187487 - Expired October 26, 2018
ES 2188572 - Expired October 26, 2018
ES 2195966 - Expired October 26, 2018
ES 2200998 - Expired October 26, 2018

FR 725545 - Expired January 30, 2016
FR 864228 - Expired July 3, 2017
FR 873,018 - Expired November 6, 2017
FR 0893925 - Expired July 22, 2018
FR 0903042 - Expired February 5, 2018
FR 909,099 - Expired September 15, 2018
FR 914,008 - Expired October 26, 2018
FR 1,100,272 - Expired November 6, 2017
FR 1100273 - Expired November 6, 2017
FR 1100274 - Expired November 6, 2017
FR 1,104,972 - Expired November 6, 2017
FR 1113672 - Expired February 5, 2018
FR 1113673 - Expired February 5, 2018
FR 1,117,258 - Expired October 26, 2018
FR 1,117,259 - Expired October 26, 2018
FR 1,117,260 - Expired October 26, 2018
FR 1,117,261 - Expired October 26, 2018
FR 1343330 - Expired July 3, 2017
FR 1397006 - Expired February 5, 2018
FR 1560439 - Expired November 6, 2017
GB 725545 - Expired January 30, 2016
GB 864228 - Expired July 3, 2017
GB 873,018 - Expired November 6, 2017
GB 0893925 - Expired July 22, 2018
GB 0903042 - Expired February 5, 2018
GB 909,099 - Expired September 15, 2018
GB 914,008 - Expired October 26, 2018
GB 1,100,272 - Expired November 6, 2017
GB 1100273 - Expired November 6, 2017
GB 1100274 - Expired November 6, 2017
GB 1,104,972 - Expired November 6, 2017
GB 1113672 - Expired February 5, 2018
GB 1113673 - Expired February 5, 2018
GB 1,117,258 - Expired October 26, 2018
GB 1,117,259 - Expired October 26, 2018
GB 1,117,260 - Expired October 26, 2018
GB 1,117,261 - Expired October 26, 2018
GB 1343330 - Expired July 3, 2017
GB 1397006 - Expired February 5, 2018
GB 1560439 - Expired November 6, 2017
HK 1016390 - Expired July 3, 2017
HK 1016392 - Expired July 3, 2017
HK 1060463 - Expired July 3, 2017
HK 1075345 - Expired July 3, 2017
ID 10293 - Expired February 5, 2018
ID 14151 - Expired October 30, 2018
IN 206840 - Expired October 22, 2018
IN 213894 - Expired February 5, 2018
IT 70254/BE/05 - Expired February 5, 2018
IT 864228 - Expired July 3, 2017
IT 0893925 - Expired July 22, 2018

IT 0903042 - Expired February 5, 2018
IT 909,099 - Expired September 15, 2018
IT 914,008 - Expired October 26, 2018
IT 1113673 - Expired February 5, 2018
IT 1,117,258 - Expired October 26, 2018
IT 1,117,259 - Expired October 26, 2018
IT 1,117,260 - Expired October 26, 2018
IT 1,117,261 - Expired October 26, 2018
IT 1343330 - Expired July 3, 2017
IT 1397006 - Expired February 5, 2018
JP 2,794,899 - Expired May 8, 2010
JP 3,103,383 - Expired November 6, 2017
JP 3,135,061 - Expired November 6, 2017
JP 3,135,062 - Expired November 6, 2017
JP 3,186,775 - Expired July 3, 2017
JP 3,197,264 - Expired July 3, 2017
JP 3,232,052 - Expired October 20, 2018
JP 3,232,080 - Expired October 20, 2018
JP 3,232,081 - Expired October 20, 2018
JP 3,232,082 - Expired October 20, 2018
JP 3,234,807 - Expired February 3, 2018
JP 3,234,830 - Expired February 3, 2018
JP 3,401,505 - Expired July 3, 2017
JP 3,425,377 - Expired October 20, 2018
JP 3,743,960 - Expired November 6, 2017
JP 3,743,961 - Expired November 6, 2017
JP 3,743,962 - Expired November 6, 2017
JP 3,769,457 - Expired July 3, 2017
JP 3,769,467 - Expired February 3, 2018
KR 294,120 - Expired July 25, 2018
KR 303,054 - Expired February 5, 2018
KR 318,055 - Expired November 6, 2017
KR 318,057 - Expired November 6, 2017
KR 318,058 - Expired November 6, 2017
KR 318,059 - Expired November 6, 2017
KR 384,918 - Expired October 31, 2018
KR 402,541 - Expired November 6, 2017
KR 525,862 - Expired October 31, 2018
KR 530,394 - Expired October 31, 2018
KR 530,395 - Expired October 31, 2018
KR 530,406 - Expired October 31, 2018
MX 220076 - Expired October 8, 2018
MX 233931 - Expired October 29, 2018
NL 873,018 - Expired November 6, 2017
NL 1,100,272 - Expired November 6, 2017
NL 1100273 - Expired November 6, 2017
NL 1100274 - Expired November 6, 2017
NL 1,104,972 - Expired November 6, 2017
NL 1560439 - Expired November 6, 2017
SG 51634 - Expired July 2, 2017
SG 56895 - Expired February 5, 2018

SG 86337 - Expired October 26, 2018
SG 90765 - Expired July 3, 2017
SG 102016 - Expired November 5, 2017
TH 25,132 - Expired February 3, 2018
TH 30975 - Expired October 29, 2018
TW 104594 - Expired July 4, 2017
TW 106082 - Expired November 5, 2017
TW 112412 - Expired October 22, 2018
TW 123254 - Expired July 23, 2018
TW 136357 - Expired February 6, 2018
US Re. 35,910 - Expired May 10, 2010
US Re. 38,726 - Expired January 30, 2016
US Re. 38,923 - Expired July 2, 2017
US Re. 39,115 - Expired July 2, 2017
US Re. 39,318 - Expired July 19, 2018
US Re. 39,367 - Expired January 30, 2016
US Re. 40,664 - Expired July 2, 2017
US 5,223,949 - Expired April 16, 2012
US 6,345,123 - Expired November 5, 2017
US 6,349,149 - Expired November 5, 2017
US 6,373,856 - Expired September 14, 2018
US 6,404,929 - Expired November 5, 2017
US 6,445,739 - Expired February 4, 2018
US 6,490,372 - Expired November 5, 2017
US 6,501,793 - Expired February 4, 2018
US 6,549,724 - Expired October 21, 2018
US 6,556,717 - Expired November 5, 2017
US 6,574,369 - Expired November 5, 2017
US 6,608,936 - Expired November 5, 2017
US 6,654,541 - Expired October 21, 2018
US 6,654,545 - Expired October 29, 2018
US 6,671,456 - Expired October 21, 2018
US 6,707,986 - Expired October 21, 2018
US 7,116,829 - Expired November 5, 2017
US 7,289,670 - Expired November 5, 2017
US 7,379,606 - Expired November 5, 2017
US 7,522,775 - Expired November 5, 2017
US 7,860,159 - Expired February 4, 2018

Pantech Inc.

AT 289467 - Expired March 4, 2019
BE 940,995 - Expired March 4, 2019
CH 940,995 - Expired March 4, 2019
CN 96120293.9 - Expired October 25, 2016
CY 940,995 - Expired March 4, 2019
DE 69923725 - Expired March 4, 2019
DK 940,995 - Expired March 4, 2019
ES 2236979 - Expired March 4, 2019
FI 940,995 - Expired March 4, 2019
FR 940,995 - Expired March 4, 2019

GB 940,995 - Expired March 4, 2019
GR 3053251 - Expired March 4, 2019
IE 940,995 - Expired March 4, 2019
IT 940,995 - Expired March 4, 2019
JP 2,823,843 - Expired October 28, 2016
JP 3,439,146 - Expired March 4, 2019
JP 3,596,728 - Expired July 9, 2018
JP 3,883,618 - Expired October 25, 2016
KR 211,917 - Expired October 5, 2016
KR 237,359 - Expired October 25, 2016
KR 303,685 - Expired September 26, 2017
KR 374,717 - Expired February 10, 2019
KR 392,379 - Expired July 9, 2018
KR 413,979 - Expired July 15, 2016
KR 423,719 - Expired July 9, 2018
LI 940,995 - Expired March 4, 2019
LU 940,995 - Expired March 4, 2019
MC 940,995 - Expired March 4, 2019
NL 940,995 - Expired March 4, 2019
NO 318815 - Expired October 23, 2016
PT 940,995 - Expired March 4, 2019
SE 940,995 - Expired March 4, 2019
US 6,215,905 - Expired September 29, 2017
US 6,351,563 - Expired July 8, 2018
US 6,580,832 - Expired July 8, 2018
US 6,944,351 - Expired October 24, 2016

Robert Bosch GmbH

CH 1002429 - Expired July 28, 2018
DE 3769306 - Expired December 11, 2007
DE 59802096 - Expired August 7, 2018
DE 59802376 - Expired September 18, 2018
DE 59804203 - Expired July 28, 2018
DK 1002429 - Expired July 28, 2018
ES 1002429 - Expired July 28, 2018
FI 1002429 - Expired July 28, 2018
FI 1025706 - Expired September 18, 2018
FR 279,053 - Expired December 11, 2007
FR 1002429 - Expired July 28, 2018
FR 1025704 - Expired August 7, 2018
FR 1025706 - Expired September 18, 2018
GB 279,053 - Expired December 11, 2007
GB 1002429 - Expired July 28, 2018
GB 1025704 - Expired August 7, 2018
GB 1025706 - Expired September 18, 2018
IT 279,053 - Expired December 11, 2007
IT 1002429 - Expired July 28, 2018
IT 1025704 - Expired August 7, 2018
IT 1025706 - Expired September 18, 2018
LI 1002429 - Expired July 28, 2018

NL 279,053 - Expired December 11, 2007
NL 1002429 - Expired July 28, 2018
SE 1002429 - Expired July 28, 2018
SE 1025704 - Expired August 7, 2018
SE 1025706 - Expired September 18, 2018

SANYO Electric Co., Ltd.

JP 2,812,446 - Expired November 21, 2011

Sharp Corporation

CN 03145863.7 - Expired May 6, 2015
DE 69615948.1 - Expired January 31, 2016
DE 69632705.8 - Expired February 28, 2016
DE 69634423.8 - Expired January 31, 2016
DE 69733007.9 - Expired February 5, 2017
ES 880,286 - Expired February 5, 2017
FR 731,608 - Expired February 28, 2016
FR 753,970 - Expired July 31, 2015
FR 880,286 - Expired February 5, 2017
FR 961,498 - Expired July 31, 2015
GB 731,608 - Expired February 28, 2016
GB 753,970 - Expired July 9, 2015
GB 880,286 - Expired February 5, 2017
GB 961,498 - Expired July 9, 2015
IT 880,286 - Expired February 5, 2017
JP 3,062,507 - Expired October 30, 2009
JP 3,086,396 - Expired March 10, 2015
JP 3,098,939 - Expired July 14, 2015
JP 3,101,262 - Expired August 18, 2015
JP 3,122,445 - Expired January 7, 2009
JP 3,158,064 - Expired February 9, 2015
JP 3,247,893 - Expired October 30, 2009
JP 3,408,104 - Expired March 28, 2017
JP 3,494,617 - Expired July 14, 2015
JP 3,500,112 - Expired March 10, 2015
JP 3,526,258 - Expired February 27, 2015
JP 3,592,926 - Expired March 19, 2018
JP 3,642,737 - Expired March 28, 2017
JP 3,693,636 - Expired March 19, 2018
JP 3,933,483 - Expired March 28, 2017
NL 880,286 - Expired February 5, 2017
US 5,815,601 - Expired February 27, 2016
US 5,963,257 - Expired June 10, 2016
US 5,978,515 - Expired February 27, 2016
US 5,986,708 - Expired June 10, 2016
US 6,023,299 - Expired June 10, 2016
US 6,084,914 - Expired June 10, 2016
US 6,088,061 - Expired June 10, 2016
US 6,148,030 - Expired February 4, 2017

US 6,324,215 - Expired February 26, 2017
US 6,466,622 - Expired February 4, 2017
US 6,546,142 - Expired May 6, 2017
US 6,671,412 - Expired December 30, 2015
US 6,678,326 - Expired January 13, 2016

Siemens AG

CN 1157071 - Expired January 7, 2018
US 6,636,637 - Expired January 6, 2018

Sony Corporation

AT 185663 - Expired March 1, 2014
AT 0954182 - Expired March 1, 2014
AT 2,276,258 - Expired March 1, 2014
AT 2,276,259 - Expired March 1, 2014
AU 669,983 - Expired October 12, 2010
AU 673,244 - Expired March 1, 2014
BE 638,218 - Expired March 1, 2014
BE 0954182 - Expired March 1, 2014
BE 2,276,258 - Expired March 1, 2014
BE 2,276,259 - Expired March 1, 2014
BF 010,108 - Expired November 1, 2014
BJ 010,108 - Expired November 1, 2014
CA 2,027,659 - Expired October 15, 2010
CA 2,134,444 - Expired March 1, 2014
CF 010,108 - Expired November 1, 2014
CG 010,108 - Expired November 1, 2014
CH 638,218 - Expired March 1, 2014
CH 0954182 - Expired March 1, 2014
CH 2,276,258 - Expired March 1, 2014
CH 2,276,259 - Expired March 1, 2014
CI 010,108 - Expired November 1, 2014
CM 010,108 - Expired November 1, 2014
CN 1,076,935 - Expired March 1, 2014
DE 69031107 - Expired October 11, 2010
DE 69127224 - Expired May 3, 2011
DE 69229153 - Expired July 28, 2012
DE 69421135 - Expired March 1, 2014
DE 69435380.9 - Expired March 1, 2014
DE 69435382.5 - Expired March 1, 2014
DE 69435383.3 - Expired March 1, 2014
DK 638,218 - Expired March 1, 2014
DK 0954182 - Expired March 1, 2014
DK 2,276,258 - Expired March 1, 2014
DK 2,276,259 - Expired March 1, 2014
ES 0954182 - Expired March 1, 2014
ES 2,137,358 - Expired March 1, 2014
ES 2,276,258 - Expired March 1, 2014
ES 2,276,259 - Expired March 1, 2014

FR 424,026 - Expired October 11, 2010
FR 456,433 - Expired May 3, 2011
FR 527,011 - Expired July 28, 2012
FR 638,218 - Expired March 1, 2014
FR 0954182 - Expired March 1, 2014
FR 2,276,258 - Expired March 1, 2014
FR 2,276,259 - Expired March 1, 2014
GA 010,108 - Expired November 1, 2014
GB 424,026 - Expired October 11, 2010
GB 456,433 - Expired May 3, 2011
GB 527,011 - Expired July 28, 2012
GB 638,218 - Expired March 1, 2014
GB 0954182 - Expired March 1, 2014
GB 2,276,258 - Expired March 1, 2014
GB 2,276,259 - Expired March 1, 2014
GN 010,108 - Expired November 1, 2014
GR 0954182 - Expired March 1, 2014
GR 2,276,258 - Expired March 1, 2014
GR 2,276,259 - Expired March 1, 2014
GR 3,032,133 - Expired March 1, 2014
GW 010,108 - Expired November 1, 2014
HK 1,013,570 - Expired July 28, 2012
HK 1013575 - Expired March 1, 2014
HK 1014415 - Expired May 3, 2011
IE 638,218 - Expired March 1, 2014
IE 0954182 - Expired March 1, 2014
IE 2,276,258 - Expired March 1, 2014
IE 2,276,259 - Expired March 1, 2014
IN 188,824 - Expired February 24, 2014
IT 638,218 - Expired March 1, 2014
IT 0954182 - Expired March 1, 2014
IT 2,276,258 - Expired March 1, 2014
IT 2,276,259 - Expired March 1, 2014
JP 2,712,645 - Expired October 14, 2009
JP 2,874,745 - Expired May 9, 2010
JP 2,877,225 - Expired May 9, 2010
JP 2,969,782 - Expired May 9, 2010
JP 2,977,104 - Expired July 26, 2011
JP 3,489,581 - Expired March 18, 2013
JP 3,539,910 - Expired March 18, 2013
KR 221,889 - Expired May 9, 2011
LI 638,218 - Expired March 1, 2014
LI 0954182 - Expired March 1, 2014
LI 2,276,258 - Expired March 1, 2014
LI 2,276,259 - Expired March 1, 2014
LU 638,218 - Expired March 1, 2014
LU 0954182 - Expired March 1, 2014
LU 2,276,258 - Expired March 1, 2014
LU 2,276,259 - Expired March 1, 2014
MC 638,218 - Expired March 1, 2014
MC 0954182 - Expired March 1, 2014

MC 2,276,258 - Expired March 1, 2014
MC 2,276,259 - Expired March 1, 2014
ML 010,108 - Expired November 1, 2014
MR 010,108 - Expired November 1, 2014
MX 197,778 - Expired February 28, 2014
NE 010,108 - Expired November 1, 2014
NL 638,218 - Expired March 1, 2014
NL 0954182 - Expired March 1, 2014
NL 2,276,258 - Expired March 1, 2014
NL 2,276,259 - Expired March 1, 2014
PT 638,218 - Expired March 1, 2014
PT 0954182 - Expired March 1, 2014
PT 2,276,258 - Expired March 1, 2014
PT 2,276,259 - Expired March 1, 2014
RU 2,119,727 - Expired March 1, 2014
SE 638,218 - Expired March 1, 2014
SE 0954182 - Expired March 1, 2014
SE 2,276,258 - Expired March 1, 2014
SE 2,276,259 - Expired March 1, 2014
SN 010,108 - Expired November 1, 2014
TD 010,108 - Expired November 1, 2014
TG 010,108 - Expired November 1, 2014
TW 66,605-B - Expired August 18, 2013
US Re. 37,222 - Expired October 11, 2010
US 5,191,436 - Expired April 29, 2011
US 5,298,991 - Expired July 23, 2012
US 5,343,248 - Expired July 15, 2012
US 5,428,396 - Expired July 23, 2012
US 5,481,553 - Expired February 27, 2014

Sun Patent Trust

CA 2,228,166 - Expired May 28, 2017
CN 1118786.7 - Expired October 26, 2018
CN 1119094.9 - Expired May 28, 2017
CN 1119095.7 - Expired May 28, 2017
CN 1119096.5 - Expired May 28, 2017
CN 1119097.3 - Expired May 28, 2017
CN 1139428.5 - Expired January 25, 2019
CN 97190908.3 - Expired May 28, 2017
CN 98106370.5 - Expired April 9, 2018
CN 98117220.2 - Expired June 18, 2018
CN 98120577.1 - Expired October 26, 2018
CN 99800063.9 - Expired January 25, 2019
CN 200410101129.8 - Expired January 25, 2019
CN 200510067737.6 - Expired May 28, 2017
CN 200610095680.5 - Expired May 28, 2017
CN 200610095683.9 - Expired May 28, 2017
DE 69709189 - Expired May 28, 2017
DE 69709835 - Expired May 28, 2017
DE 69709912 - Expired May 28, 2017

DE 69709914 - Expired May 28, 2017
DE 69816342 - Expired April 7, 2018
DE 69834209.7 - Expired June 19, 2018
DE 69910805 - Expired January 25, 2019
ES 1124380 - Expired June 19, 2018
ES 2170744 - Expired May 28, 2017
ES 2170745 - Expired May 28, 2017
ES 2170954 - Expired May 28, 2017
ES 2171377 - Expired May 28, 2017
ES 2203383 - Expired April 7, 2018
ES 2204777 - Expired January 25, 2019
FR 843,484 - Expired May 28, 2017
FR 1065883 - Expired April 7, 2018
FR 1,096,801 - Expired May 28, 2017
FR 1,096,802 - Expired May 28, 2017
FR 1098528 - Expired May 28, 2017
FR 1119199 - Expired January 25, 2019
FR 1124380 - Expired June 19, 2018
GB 843,484 - Expired May 28, 2017
GB 1065883 - Expired April 7, 2018
GB 1,096,801 - Expired May 28, 2017
GB 1,096,802 - Expired May 28, 2017
GB 1098528 - Expired May 28, 2017
GB 1119199 - Expired January 25, 2019
GB 1124380 - Expired June 19, 2018
ID 13824 - Expired April 8, 2018
ID 14440 - Expired January 25, 2019
IN 192209 - Expired April 7, 2018
IN 213435 - Expired January 24, 2019
IT 843,484 - Expired May 28, 2017
IT 1065883 - Expired April 7, 2018
IT 1,096,801 - Expired May 28, 2017
IT 1,096,802 - Expired May 28, 2017
IT 1098528 - Expired May 28, 2017
IT 1119199 - Expired January 25, 2019
IT 1124380 - Expired June 19, 2018
JP 3,118,237 - Expired May 28, 2017
JP 3,149,417 - Expired May 28, 2017
JP 3,149,418 - Expired May 28, 2017
JP 3,157,144 - Expired May 28, 2017
JP 3,343,554 - Expired May 28, 2017
JP 3,369,573 - Expired May 28, 2017
JP 3,380,763 - Expired January 22, 2019
JP 3,380,797 - Expired January 22, 2019
JP 3,387,820 - Expired April 7, 2018
JP 3,851,063 - Expired May 28, 2017
JP 3,851,317 - Expired May 28, 2017
JP 3,857,297 - Expired May 28, 2017
JP 4,418,090 - Expired January 22, 2019
KR 303,373 - Expired June 20, 2018
KR 319,248 - Expired April 9, 2018

KR 324,608 - Expired May 28, 2017
KR 324,609 - Expired May 28, 2017
KR 324,610 - Expired May 28, 2017
KR 324,611 - Expired May 28, 2017
KR 365,259 - Expired January 25, 2019
KR 371,129 - Expired May 28, 2017
KR 371,130 - Expired May 28, 2017
KR 394,938 - Expired January 25, 2019
KR 403,077 - Expired May 28, 2017
KR 446,365 - Expired January 25, 2019
MX 215790 - Expired May 28, 2017
MX 217079 - Expired April 8, 2018
MX 219004 - Expired January 25, 2019
MX 241253 - Expired May 28, 2017
MX 241254 - Expired May 28, 2017
MX 241255 - Expired May 28, 2017
MX 241257 - Expired May 28, 2017
MX 251306 - Expired January 25, 2019
SG 51379 - Expired May 28, 2017
SG 65064 - Expired April 3, 2018
SG 67783 - Expired January 25, 2019
SG 116400 - Expired October 23, 2017
TH 25639 - Expired April 8, 2018
TH 28372 - Expired January 21, 2019
TW 117930 - Expired June 17, 2018
TW 416220 - Expired January 21, 2019
US 6,148,109 - Expired May 27, 2017
US 6,275,533 - Expired June 17, 2018
US 6,292,588 - Expired May 27, 2017
US 6,360,016 - Expired May 27, 2017
US 6,366,703 - Expired May 27, 2017
US 6,370,276 - Expired April 2, 2018
US 6,377,708 - Expired May 27, 2017
US 6,400,889 - Expired January 24, 2019
US 6,408,096 - Expired October 20, 2018
US 6,408,099 - Expired October 20, 2018
US 6,418,268 - Expired January 24, 2019
US 6,449,424 - Expired January 24, 2019
US 6,480,628 - Expired October 20, 2018
US 6,532,306 - Expired May 27, 2017
US 6,859,559 - Expired January 30, 2018
US 7,079,694 - Expired May 27, 2017
US 7,424,158 - Expired July 12, 2017
US 7,437,008 - Expired June 29, 2017
US 7,444,029 - Expired June 29, 2017

Telenor ASA

AT 160252 - Expired March 10, 2013
BE 630,547 - Expired March 10, 2013
CH 630,547 - Expired March 10, 2013

DE 69315203 - Expired March 10, 2013
DK 630,547 - Expired March 10, 2013
ES 2111152 - Expired March 10, 2013
FR 630,547 - Expired March 10, 2013
GB 630,547 - Expired March 10, 2013
GR 3025887 - Expired March 10, 2013
IE 630,547 - Expired March 10, 2013
IT 630,547 - Expired March 10, 2013
JP 2,955,363 - Expired March 10, 2013
LI 630,547 - Expired March 10, 2013
LU 630,547 - Expired March 10, 2013
MC 630,547 - Expired March 10, 2013
NL 630,547 - Expired March 10, 2013
PT 630,547 - Expired March 10, 2013
SE 630,547 - Expired March 10, 2013
US 5,579,413 - Expired November 25, 2013

Toshiba Corporation

CA 2,249,540 - Expired March 18, 2017
CN 97193909.8 - Expired March 18, 2017
CN 200410098328.8 - Expired March 18, 2017
CN 200610088687.4 - Expired March 17, 2017
CN 200610093890.0 - Expired March 17, 2017
CN 200610093891.5 - Expired March 17, 2017
CN 200610093894.9 - Expired March 17, 2017
DE 69619002 - Expired March 8, 2016
DE 69624276 - Expired March 15, 2016
DE 69636150.7 - Expired March 15, 2016
FR 731,614 - Expired March 8, 2016
FR 732,855 - Expired March 15, 2016
FR 1,267,582 - Expired March 15, 2016
GB 731,614 - Expired March 8, 2016
GB 732,855 - Expired March 15, 2016
GB 1,267,582 - Expired March 15, 2016
JP 3,011,680 - Expired September 5, 2017
JP 3,030,028 - Expired September 5, 2017
JP 3,164,806 - Expired October 6, 2015
JP 3,217,771 - Expired September 5, 2017
JP 3,233,360 - Expired October 6, 2015
JP 3,275,003 - Expired September 5, 2017
JP 3,415,319 - Expired March 10, 2015
JP 3,415,548 - Expired March 10, 2015
JP 3,417,933 - Expired October 6, 2015
JP 3,417,934 - Expired October 6, 2015
JP 3,431,368 - Expired October 6, 2015
JP 3,474,859 - Expired March 10, 2015
JP 3,474,861 - Expired March 10, 2015
JP 3,474,862 - Expired March 10, 2015
JP 3,579,409 - Expired October 6, 2015
JP 3,579,412 - Expired October 6, 2015

JP 3,597,843 - Expired September 13, 2016
JP 3,597,846 - Expired September 13, 2016
JP 3,597,847 - Expired September 13, 2016
JP 3,597,848 - Expired September 13, 2016
JP 3,597,849 - Expired September 13, 2016
JP 3,597,850 - Expired September 13, 2016
JP 3,597,851 - Expired September 13, 2016
JP 3,597,852 - Expired September 13, 2016
JP 3,609,813 - Expired October 6, 2015
JP 3,612,314 - Expired October 6, 2015
JP 3,612,315 - Expired October 6, 2015
JP 3,631,488 - Expired September 13, 2016
JP 3,657,954 - Expired September 13, 2016
JP 3,657,955 - Expired September 13, 2016
JP 3,657,956 - Expired September 13, 2016
JP 3,657,965 - Expired September 13, 2016
JP 3,657,967 - Expired September 13, 2016
JP 3,657,969 - Expired September 13, 2016
JP 3,657,970 - Expired September 13, 2016
JP 3,657,978 - Expired September 13, 2016
JP 3,748,215 - Expired October 6, 2015
JP 3,766,426 - Expired October 6, 2015
JP 3,819,638 - Expired September 5, 2017
JP 3,822,630 - Expired October 6, 2015
JP 3,866,687 - Expired October 6, 2015
JP 4,189,429 - Expired July 14, 2017
JP 4,199,240 - Expired September 5, 2017
KR 685,771 - Expired March 18, 2017
KR 685,772 - Expired March 18, 2017
KR 773,304 - Expired March 18, 2017
KR, 877,949 - Expired March 18, 2017
MX 252,913 - Expired March 18, 2017
MX 280,222 - Expired March 18, 2017
US 5,852,469 - Expired March 14, 2016
US 5,883,678 - Expired September 29, 2016
US 5,930,395 - Expired October 24, 2016
US 6,025,881 - Expired March 7, 2016
US 6,052,150 - Expired March 7, 2016
US 6,104,754 - Expired March 14, 2016
US 6,128,342 - Expired March 7, 2016
US 6,256,064 - Expired March 14, 2016
US 6,334,000 - Expired October 24, 2016
US 6,353,681 - Expired October 24, 2016
US 6,408,098 - Expired October 24, 2016
US 6,571,361 - Expired September 26, 2016
US 6,621,931 - Expired October 24, 2016
US 6,701,018 - Expired October 24, 2016
US 6,704,494 - Expired March 14, 2016
US 6,952,432 - Expired September 1, 2017
US 7,321,995 - Expired October 17, 2017
US 7,376,187 - Expired March 14, 2016

US 7,388,914 - Expired March 14, 2016
US 7,454,669 - Expired September 26, 2016
US 7,464,305 - Expired September 29, 2016
US 7,472,316 - Expired September 26, 2016
US 7,472,317 - Expired December 18, 2016
US 7,475,298 - Expired July 12, 2017
US 7,669,108 - Expired September 26, 2016

ZTE Corporation

AU 757922 - Expired May 29, 2018
AU 2003244627 - Expired May 15, 2018
CN 98102287.1 - Expired June 19, 2018
CN 98102368.1 - Expired June 8, 2018
JP 3,935,613 - Expired July 3, 2018
JP 4,357,506 - Expired September 2, 2016
KR 124,164 - Expired April 30, 2014
KR 196,867 - Expired November 29, 2015
MX 256544 - Expired May 15, 2018
US Re. 41,383 - Expired June 1, 2018

Addendum of Patents of Withdrawn Licensors

Each patent listed below was contributed to the MPEG-4 Visual Patent Licensing Program by an entity that has withdrawn as a licensor from the MPEG-4 Visual Patent Licensing Program. Those licensees with an MPEG-4 Visual Patent Portfolio License in effect *on or prior to* the date of withdrawal indicated next to each patent retain their license under the respective withdrawn patent after the indicated withdrawal date.

Samsung Electronics Co., Ltd. (withdrawn January 1, 2019)

CN 108368.6	(withdrawn January 1, 2019)
CN 200410078616.7	(withdrawn January 1, 2019)
CN 200410078617.1	(withdrawn January 1, 2019)
CN 200410078618.6	(withdrawn January 1, 2019)
CN 200410078619.0	(withdrawn January 1, 2019)
CN 3107665.3	(withdrawn January 1, 2019)
CN 3107666.1	(withdrawn January 1, 2019)
CN 3107667.X	(withdrawn January 1, 2019)
CN 94191195.0	(withdrawn January 1, 2019)
CN 97123467.1	(withdrawn January 1, 2019)
CN 98122956.5	(withdrawn January 1, 2019)
DE 69321781.2	(withdrawn January 1, 2019)
DE 69434369	(withdrawn January 1, 2019)
DE 69434667.5	(withdrawn January 1, 2019)
DE 69434668.3	(withdrawn January 1, 2019)
DE 69720198	(withdrawn January 1, 2019)
DE 69738480.2	(withdrawn January 1, 2019)
EG 21414	(withdrawn January 1, 2019)
EG 21497	(withdrawn January 1, 2019)
EP 0580454	(withdrawn January 1, 2019)
EP 0890921	(withdrawn January 1, 2019)
EP 1,441,536	(withdrawn January 1, 2019)
EP 1,445,962	(withdrawn January 1, 2019)
EP 884,693	(withdrawn January 1, 2019)
EP 987,900	(withdrawn January 1, 2019)
FR 0580454	(withdrawn January 1, 2019)
FR 1,441,536	(withdrawn January 1, 2019)
FR 1,445,962	(withdrawn January 1, 2019)
FR 884,693	(withdrawn January 1, 2019)
FR 890,921	(withdrawn January 1, 2019)
FR 987,900	(withdrawn January 1, 2019)
GB 0580454	(withdrawn January 1, 2019)
GB 1,441,536	(withdrawn January 1, 2019)
GB 1,445,962	(withdrawn January 1, 2019)
GB 884,693	(withdrawn January 1, 2019)
GB 890,921	(withdrawn January 1, 2019)

GB 987,900	(withdrawn January 1, 2019)
HK 1033507	(withdrawn January 1, 2019)
HK 1056286	(withdrawn January 1, 2019)
HK 1056287	(withdrawn January 1, 2019)
HK 1059699	(withdrawn January 1, 2019)
HK 1070516	(withdrawn January 1, 2019)
HK 1073196	(withdrawn January 1, 2019)
HK 1073197	(withdrawn January 1, 2019)
HK 1073198	(withdrawn January 1, 2019)
ID 0008897	(withdrawn January 1, 2019)
ID 0009730	(withdrawn January 1, 2019)
ID 0010181	(withdrawn January 1, 2019)
IL 122671	(withdrawn January 1, 2019)
IL 122771	(withdrawn January 1, 2019)
IN 193065	(withdrawn January 1, 2019)
JP 2,665,127	(withdrawn January 1, 2019)
JP 3,369,422	(withdrawn January 1, 2019)
JP 3,442,028	(withdrawn January 1, 2019)
JP 3,466,080	(withdrawn January 1, 2019)
JP 3,669,833	(withdrawn January 1, 2019)
JP 3,669,834	(withdrawn January 1, 2019)
KR 132,895	(withdrawn January 1, 2019)
KR 147,549	(withdrawn January 1, 2019)
KR 155,784	(withdrawn January 1, 2019)
KR 157,463	(withdrawn January 1, 2019)
KR 166,715	(withdrawn January 1, 2019)
KR 252,010	(withdrawn January 1, 2019)
KR 269,205	(withdrawn January 1, 2019)
KR 313,870	(withdrawn January 1, 2019)
KR 314,098	(withdrawn January 1, 2019)
KR 338,801	(withdrawn January 1, 2019)
KR 359,093	(withdrawn January 1, 2019)
KR 375,345	(withdrawn January 1, 2019)
KR 83730	(withdrawn January 1, 2019)
MY 116137	(withdrawn January 1, 2019)
MY 117081	(withdrawn January 1, 2019)
NL 884,693	(withdrawn January 1, 2019)
NL 890,921	(withdrawn January 1, 2019)
RU 2221274	(withdrawn January 1, 2019)
RU 2221275	(withdrawn January 1, 2019)
US 5,467,086	(withdrawn January 1, 2019)
US 5,654,706	(withdrawn January 1, 2019)
US 6,002,812	(withdrawn January 1, 2019)
US 6,011,496	(withdrawn January 1, 2019)
US 6,016,111	(withdrawn January 1, 2019)
US 6,680,975	(withdrawn January 1, 2019)
US 7,292,657	(withdrawn January 1, 2019)
US Re. 37,755	(withdrawn January 1, 2019)

US Re. 37,792	(withdrawn January 1, 2019)
US Re. 39,167	(withdrawn January 1, 2019)
US Re. 39,237	(withdrawn January 1, 2019)
US Re. 40,782	(withdrawn January 1, 2019)
US Re. 40,980	(withdrawn January 1, 2019)
US Re. 41,154	(withdrawn January 1, 2019)
US Re. 41,435	(withdrawn January 1, 2019)
US Re. 41,458	(withdrawn January 1, 2019)