

**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 6,912,351 - Expires October 18, 2018  
US 7,433,525 - Expires October 18, 2018  
US Re. 40,177  
US Re. 41,089

**Mitsubishi Electric Corporation**

CN 98812706.7 - Expires October 23, 2018  
DE 69833443 - Expires October 23, 2018  
DE 69841698.8 - Expires October 23, 2018  
DE 69842724.6 - Expires October 23, 2018  
DE 69843063 - Expires October 23, 2018  
DE 69843068 - Expires October 23, 2018  
FI 1026899 - Expires October 23, 2018  
FI 1558038 - Expires October 23, 2018

FI 2,200,314 - Expires October 23, 2018  
FI 2,306,721 - Expires October 23, 2018  
FI 2,306,722 - Expires October 23, 2018  
FR 1026899 - Expires October 23, 2018  
FR 1558038 - Expires October 23, 2018  
FR 2,200,314 - Expires October 23, 2018  
FR 2,306,721 - Expires October 23, 2018  
FR 2,306,722 - Expires October 23, 2018  
GB 1026899 - Expires October 23, 2018  
GB 1558038 - Expires October 23, 2018  
GB 2,200,314 - Expires October 23, 2018  
GB 2,306,721 - Expires October 23, 2018  
GB 2,306,722 - Expires October 23, 2018  
HK 1,141,653 - Expires October 23, 2018  
HK 1,151,912 - Expires October 22, 2018  
HK 1,152,177 - Expires October 22, 2018  
HK 1030121 - Expires October 23, 2018  
HK 1079022 - Expires October 23, 2018  
MX 224994  
NL 1026899 - Expires October 23, 2018  
NL 1558038 - Expires October 23, 2018  
NL 2,200,314 - Expires October 23, 2018  
NL 2,306,721 - Expires October 23, 2018  
NL 2,306,722 - Expires October 23, 2018  
SE 1026899 - Expires October 23, 2018  
SE 1558038 - Expires October 23, 2018  
SE 2,200,314 - Expires October 23, 2018  
SE 2,306,721 - Expires October 23, 2018  
SE 2,306,722 - Expires October 23, 2018  
US 7,110,456 - Expires December 1, 2018  
US 7,127,110 - Expires October 22, 2018  
US 7,197,188 - Expires October 22, 2018  
US 7,362,907 - Expires October 22, 2018  
US 7,469,008  
US 7,469,009  
US 7,720,149  
US 7,970,217 - Expires October 22, 2018  
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

CN 1137467.5 - Expires October 30, 2018  
CN 1137469.1 - Expires October 30, 2018  
CN 1137470.5 - Expires October 30, 2018  
CN 1137471.3 - Expires October 30, 2018  
CN 98121454.1 - Expires October 30, 2018  
DE 69805036.3 - Expires October 26, 2018  
DE 69810971 - Expires October 26, 2018  
DE 69812190 - Expires October 26, 2018  
DE 69813311 - Expires October 26, 2018  
DE 69815722 - Expires October 26, 2018  
ES 2187487 - Expires October 26, 2018  
ES 2188572 - Expires October 26, 2018  
ES 2195966 - Expires October 26, 2018  
ES 2200998 - Expires October 26, 2018  
ES 914,008 - Expires October 26, 2018  
FR 1,117,258 - Expires October 26, 2018  
FR 1,117,259 - Expires October 26, 2018  
FR 1,117,260 - Expires October 26, 2018  
FR 1,117,261 - Expires October 26, 2018  
FR 914,008 - Expires October 26, 2018  
GB 1,117,258 - Expires October 26, 2018  
GB 1,117,259 - Expires October 26, 2018  
GB 1,117,260 - Expires October 26, 2018  
GB 1,117,261 - Expires October 26, 2018  
GB 914,008 - Expires October 26, 2018  
ID 14151 - Expires October 30, 2018  
IN 206840 - Expires October 22, 2018  
IT 1,117,258 - Expires October 26, 2018  
IT 1,117,259 - Expires October 26, 2018  
IT 1,117,260 - Expires October 26, 2018  
IT 1,117,261 - Expires October 26, 2018  
IT 914,008 - Expires October 26, 2018  
JP 3,232,052 - Expires October 20, 2018  
JP 3,232,080 - Expires October 20, 2018  
JP 3,232,081 - Expires October 20, 2018  
JP 3,232,082 - Expires October 20, 2018  
JP 3,425,377 - Expires October 20, 2018  
KR 384,918 - Expires October 31, 2018  
KR 525,862 - Expires October 31, 2018  
KR 530,394 - Expires October 31, 2018  
KR 530,395 - Expires October 31, 2018  
KR 530,406 - Expires October 31, 2018  
MX 220076 - Expires October 8, 2018  
MX 233931 - Expires October 29, 2018  
MY 118198  
MY 127668  
MY 129889-A  
SG 86337 - Expires October 26, 2018  
TH 30975 - Expires October 29, 2018  
TW 112412 - Expires October 22, 2018

US 6,549,724 - Expires October 21, 2018  
US 6,654,541 - Expires October 21, 2018  
US 6,654,545 - Expires October 29, 2018  
US 6,671,456 - Expires October 21, 2018  
US 6,707,986 - Expires October 21, 2018  
US 7,010,035

**Pantech Inc.**

AT 289467  
BE 940,995  
CH 940,995  
CY 940,995  
DE 69923725  
DK 940,995  
ES 2236979  
FI 940,995  
FR 940,995  
GB 940,995  
GR 3053251  
IE 940,995  
IT 940,995  
JP 3,439,146  
KR 374,717  
LI 940,995  
LU 940,995  
MC 940,995  
NL 940,995  
PT 940,995  
SE 940,995

**Samsung Electronics Co., Ltd.**

CN 3107665.3 - Expires November 30, 2018  
CN 3107666.1 - Expires November 30, 2018  
CN 3107667.X - Expires November 30, 2018  
CN 98122956.5 - Expires November 30, 2018  
HK 1056286 - Expires November 30, 2018  
HK 1056287 - Expires November 30, 2018  
HK 1059699 - Expires November 30, 2018  
KR 313,870 - Expires December 1, 2018  
KR 359,093 - Expires December 1, 2018  
KR 375,345 - Expires December 1, 2018  
MY 116137 - Expires November 28, 2018  
MY 117081

**Siemens AG**

BR PI0109962-0  
CA 2,406,164  
CN 1122419 C

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

**Sun Patent Trust**

BR PI9702224-1  
BR PI9801156-1  
BR PI9904785-3  
CN 1118786.7 - Expires October 26, 2018  
CN 1139428.5  
CN 200410101129.8  
CN 98120577.1 - Expires October 26, 2018  
CN 99800063.9  
DE 69910805  
ES 2204777  
FR 1119199  
GB 1119199  
ID 14440  
IN 213435  
IT 1119199  
JP 3,380,763  
JP 3,380,797  
JP 4,418,090  
KR 365,259  
KR 394,938  
KR 446,365  
MX 219004  
MX 251306  
MY 119926-A  
MY 124052  
MY 129665  
SG 67783  
TH 28372  
TW 416220  
US 6,400,889  
US 6,408,096 - Expires October 20, 2018  
US 6,408,099 - Expires October 20, 2018  
US 6,418,268  
US 6,449,424

US 6,480,628 - Expires October 20, 2018

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 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

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

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

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

### **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 5,235,419 - Expired October 23, 2011  
US 6,005,980 - Expired July 20, 2017  
US Re. 38,563 - Expired October 5, 2017

**Hitachi, Ltd.**

CN 00120208.1 - 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  
CN 98102981.7 - Expired June 9, 2018  
DE 69,842,968 - 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  
DE 69808519.1 - Expired June 8, 2018  
DE 69817460 - Expired June 8, 2018  
DE 69843113 - Expired June 8, 2018  
DE 69843114 - Expired June 8, 2018  
DE 69843115 - Expired June 8, 2018  
ES 1,237,376 - 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  
ES 2205323 - Expired June 8, 2018  
FI 1,237,376 - Expired June 8, 2018  
FI 1,237,377 - Expired June 8, 2018  
FI 1056294 - 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  
FI 884,912 - Expired June 8, 2018  
FR 1,237,376 - Expired June 8, 2018  
FR 1,237,377 - Expired June 8, 2018  
FR 1056294 - 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  
FR 884,912 - Expired June 8, 2018  
GB 1,237,376 - Expired June 8, 2018  
GB 1,237,377 - Expired June 8, 2018  
GB 1056294 - 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  
GB 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  
IT 884,912 - 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 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  
NL 884,912 - Expired June 8, 2018  
SE 1,237,376 - Expired June 8, 2018  
SE 1,237,377 - Expired June 8, 2018  
SE 1056294 - Expired June 8, 2018  
SE 2,271,116 - Expired June 8, 2018  
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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  
SE 884,912 - 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 260,748 - Expired September 10, 2007  
IT 443,676 - Expired February 18, 2011  
IT 52497 BE/97 - Expired June 3, 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 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  
KR 86,346 - Expired April 11, 2012

US 4,654,484 - Expired March 31, 2004  
US Re. 37,568 - Expired March 31, 2014

**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 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  
CN 97182488.6 - Expired October 23, 2017  
CN 98812454.8 - Expired March 6, 2018  
DE 69027820 - Expired August 20, 2010  
DE 697 38 792.5 - Expired October 23, 2017  
DE 69721847.3 - Expired October 23, 2017  
DE 69738379.2 - Expired October 23, 2017  
DE 69738381.4 - 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 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  
FR 0905980 - 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 1032219 - Expired October 23, 2017  
FR 1328125 - Expired October 23, 2017  
FR 1565002 - Expired October 23, 2017  
FR 1565003 - Expired October 23, 2017  
FR 1565004 - 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 2,278,809 - Expired March 6, 2018  
FR 2,278,811 - Expired March 6, 2018  
FR 2,352,297 - Expired January 22, 2018  
FR 2,369,847 - Expired January 22, 2018  
FR 414,193 - Expired August 20, 2010  
GB 0905980 - 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 1032219 - Expired October 23, 2017  
GB 1328125 - Expired October 23, 2017  
GB 1565002 - Expired October 23, 2017  
GB 1565003 - Expired October 23, 2017  
GB 1565004 - 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 2,278,809 - Expired March 6, 2018  
GB 2,278,811 - Expired March 6, 2018  
GB 414,193 - Expired August 20, 2010  
HK 1,079,934 - Expired October 23, 2017  
HK 1,079,935 - 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 1,125,769 - Expired October 23, 2017  
HK 1,125,770 - Expired October 23, 2017  
HK 1,126,063 - Expired October 23, 2017  
HK 1008129 - Expired August 20, 2010  
HK 1030705 - Expired October 23, 2017  
HK 1079936 - Expired October 23, 2017  
HK 1109538 - Expired October 23, 2017  
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 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  
KR 77,808 - Expired August 20, 2010  
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 0905980 - 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 1032219 - Expired October 23, 2017  
NL 1328125 - Expired October 23, 2017  
NL 1565002 - Expired October 23, 2017  
NL 1565003 - Expired October 23, 2017  
NL 1565004 - 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 2,278,809 - Expired March 6, 2018  
NL 2,278,811 - Expired March 6, 2018  
NL 414,193 - Expired August 20, 2010  
NO 306749 - Expired August 21, 2010  
NO 310850 - Expired October 21, 2012  
SE 414,193 - Expired August 20, 2010  
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 7,356,078 - Expired March 5, 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

### Nippon Telegraph and Telephone Corporation

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 0961499 - Expired January 27, 2018

FR 1809044 - Expired January 27, 2018

FR 1819173 - Expired June 25, 2018

FR 921688 - Expired June 25, 2018

GB 0961499 - Expired January 27, 2018

GB 1809044 - Expired January 27, 2018

GB 1819173 - Expired June 25, 2018

GB 921688 - 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 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 200410033475.7 - Expired July 23, 2018  
CN 200410095099.4 - Expired July 3, 2017  
CN 200510054265.0 - Expired November 6, 2017  
CN 97190851.6 - Expired July 3, 2017  
CN 97192067.2 - Expired November 6, 2017  
CN 98800434.8 - Expired February 5, 2018  
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 69805583.7 - Expired February 5, 2018  
DE 69813635.7 - Expired February 5, 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 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  
FR 0893925 - Expired July 22, 2018  
FR 0903042 - Expired February 5, 2018  
FR 1,100,272 - Expired November 6, 2017  
FR 1,104,972 - Expired November 6, 2017  
FR 1100273 - Expired November 6, 2017  
FR 1100274 - Expired November 6, 2017  
FR 1113672 - Expired February 5, 2018

FR 1113673 - Expired February 5, 2018  
FR 1343330 - Expired July 3, 2017  
FR 1397006 - Expired February 5, 2018  
FR 1560439 - Expired November 6, 2017  
FR 725545 - Expired January 30, 2016  
FR 864228 - Expired July 3, 2017  
FR 873,018 - Expired November 6, 2017  
FR 909,099 - Expired September 15, 2018  
GB 0893925 - Expired July 22, 2018  
GB 0903042 - Expired February 5, 2018  
GB 1,100,272 - Expired November 6, 2017  
GB 1,104,972 - Expired November 6, 2017  
GB 1100273 - Expired November 6, 2017  
GB 1100274 - Expired November 6, 2017  
GB 1113672 - Expired February 5, 2018  
GB 1113673 - Expired February 5, 2018  
GB 1343330 - Expired July 3, 2017  
GB 1397006 - Expired February 5, 2018  
GB 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 909,099 - Expired September 15, 2018  
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  
IN 213894 - Expired February 5, 2018  
IT 0893925 - Expired July 22, 2018  
IT 0903042 - Expired February 5, 2018  
IT 1113673 - Expired February 5, 2018  
IT 1343330 - Expired July 3, 2017  
IT 1397006 - Expired February 5, 2018  
IT 70254/BE/05 - Expired February 5, 2018  
IT 864228 - Expired July 3, 2017  
IT 909,099 - Expired September 15, 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 3,234,807 - Expired February 3, 2018  
JP 3,234,830 - Expired February 3, 2018  
JP 3,401,505 - Expired July 3, 2017  
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 402,541 - Expired November 6, 2017  
NL 1,100,272 - Expired November 6, 2017  
NL 1,104,972 - Expired November 6, 2017  
NL 1100273 - Expired November 6, 2017  
NL 1100274 - Expired November 6, 2017  
NL 1560439 - Expired November 6, 2017  
NL 873,018 - Expired November 6, 2017  
SG 102016 - Expired November 5, 2017  
SG 51634 - Expired July 2, 2017  
SG 56895 - Expired February 5, 2018  
SG 90765 - Expired July 3, 2017  
TH 25,132 - Expired February 3, 2018  
TW 104594 - Expired July 4, 2017  
TW 106082 - Expired November 5, 2017  
TW 123254 - Expired July 23, 2018  
TW 136357 - Expired February 6, 2018  
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 6,556,717 - Expired November 5, 2017  
US 6,574,369 - Expired November 5, 2017  
US 6,608,936 - Expired November 5, 2017  
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  
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

**Pantech Inc.**

CN 96120293.9 - Expired October 25, 2016  
JP 2,823,843 - Expired October 28, 2016  
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 392,379 - Expired July 9, 2018  
KR 413,979 - Expired July 15, 2016  
KR 423,719 - Expired July 9, 2018  
NO 318815 - Expired October 23, 2016  
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 1002429 - Expired July 28, 2018  
FR 1025704 - Expired August 7, 2018  
FR 1025706 - Expired September 18, 2018  
FR 279,053 - Expired December 11, 2007  
GB 1002429 - Expired July 28, 2018  
GB 1025704 - Expired August 7, 2018  
GB 1025706 - Expired September 18, 2018  
GB 279,053 - Expired December 11, 2007  
IT 1002429 - Expired July 28, 2018  
IT 1025704 - Expired August 7, 2018  
IT 1025706 - Expired September 18, 2018  
IT 279,053 - Expired December 11, 2007  
LI 1002429 - Expired July 28, 2018  
NL 1002429 - Expired July 28, 2018  
NL 279,053 - Expired December 11, 2007  
SE 1002429 - Expired July 28, 2018  
SE 1025704 - Expired August 7, 2018  
SE 1025706 - Expired September 18, 2018

### **Samsung Electronics Co., Ltd.**

CN 108368.6 - Expired December 16, 2014  
CN 200410078616.7 - Expired December 16, 2014  
CN 200410078617.1 - Expired December 16, 2014  
CN 200410078618.6 - Expired December 16, 2014  
CN 200410078619.0 - Expired December 16, 2014  
CN 94191195.0 - Expired December 16, 2014

CN 97123467.1 - Expired December 29, 2017  
DE 69321781.2 - Expired July 23, 2013  
DE 69434369 - Expired December 16, 2014  
DE 69434667.5 - Expired December 16, 2014  
DE 69434668.3 - Expired December 16, 2014  
DE 69720198 - Expired December 23, 2017  
DE 69738480.2 - Expired December 23, 2017  
EG 21414 - Expired November 27, 2017  
EG 21497 - Expired November 27, 2017  
FR 0580454 - Expired July 23, 2013  
FR 1,441,536 - Expired December 16, 2014  
FR 1,445,962 - Expired December 16, 2014  
FR 884,693 - Expired December 23, 2017  
FR 890,921 - Expired December 23, 2017  
FR 987,900 - Expired December 16, 2014  
GB 0580454 - Expired July 23, 2013  
GB 1,441,536 - Expired December 16, 2014  
GB 1,445,962 - Expired December 16, 2014  
GB 884,693 - Expired December 23, 2017  
GB 890,921 - Expired December 23, 2017  
GB 987,900 - Expired December 16, 2014  
HK 1033507 - Expired December 16, 2014  
HK 1070516 - Expired December 16, 2014  
HK 1073196 - Expired December 16, 2014  
HK 1073197 - Expired December 16, 2014  
HK 1073198 - Expired December 16, 2014  
ID 0008897 - Expired December 23, 2017  
ID 0009730 - Expired December 24, 2017  
ID 0010181 - Expired December 23, 2017  
IL 122671 - Expired December 18, 2017  
IL 122771 - Expired December 25, 2017  
IN 193065 - Expired December 30, 2017  
JP 2,665,127 - Expired June 18, 2013  
JP 3,369,422 - Expired June 22, 2013  
JP 3,442,028 - Expired June 22, 2013  
JP 3,466,080 - Expired February 27, 2018  
JP 3,669,833 - Expired February 26, 2018  
JP 3,669,834 - Expired February 26, 2018  
KR 132,895 - Expired July 24, 2012  
KR 147,549 - Expired February 28, 2012  
KR 155,784 - Expired December 15, 2014  
KR 157,463 - Expired August 10, 2013  
KR 166,715 - Expired May 18, 2012  
KR 252,010 - Expired October 24, 2017  
KR 269,205 - Expired October 4, 2017  
KR 314,098 - Expired May 29, 2017  
KR 338,801 - Expired November 19, 2017  
KR 83730 - Expired December 21, 2011  
NL 884,693 - Expired December 23, 2017  
NL 890,921 - Expired December 23, 2017  
RU 2221274 - Expired December 30, 2017



RU 2221275 - Expired December 30, 2017  
US 5,467,086 - Expired June 17, 2013  
US 5,654,706 - Expired July 22, 2013  
US 6,002,812 - Expired November 25, 2017  
US 6,011,496 - Expired November 25, 2017  
US 6,016,111 - Expired November 25, 2017  
US 6,680,975 - Expired February 28, 2013  
US 7,292,657 - Expired February 28, 2013  
US Re. 37,755 - Expired November 25, 2017  
US Re. 37,792 - Expired November 25, 2017  
US Re. 39,167 - Expired August 10, 2015  
US Re. 39,237 - Expired November 25, 2017  
US Re. 40,782 - Expired August 10, 2015  
US Re. 40,980 - Expired August 10, 2015  
US Re. 41,154 - Expired August 10, 2015  
US Re. 41,435 - Expired August 10, 2015  
US Re. 41,458 - Expired August 10, 2015

**SANYO Electric Co., Ltd.**

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

**Sharp Corporation**

CN 03145863.7 - Expired May 6, 2015  
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