

Apple Inc.

AU 2003256494
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US 7,548,584
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Cisco Systems Canada Co.

US 6,646,578
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US 7,400,681

Cisco Technology, Inc.

US 7,684,489

Dolby International AB

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ZA 2005/09231
ZA 2009/06749
ZA 2010/06649

Dolby Laboratories Licensing Corporation

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AU 2002316666
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Electronics and Telecommunications Research Institute

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Electronics and Telecommunications Research Institute and Korea Advanced Institute of Science and Technology (KAIST)

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Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.

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Fujitsu Limited

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GE Video Compression, LLC

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Korea Advanced Institute of Science and Technology (KAIST) and Samsung Electronics Co., Ltd.

AU 717,480
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RU 2,154,918
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LG Electronics Inc.

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US Re. 42,747
US Re. 43,709
US Re. 45,859
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Maxell, Ltd.

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Microsoft Corporation

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Mitsubishi Electric Corporation

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NEC Corporation

CN 200710169295.5
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Nippon Telegraph and Telephone Corporation

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NTT DOCOMO, INC.

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DE 69805036.3 - Expires October 26, 2018
DE 69810971 - Expires October 26, 2018
DE 69812190.2 - Expires October 26, 2018
DE 69822751.4 - Expires September 15, 2018

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DK 1,742,479
DK 1406450
DK 2,249,570
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DK 2,278,816
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DK 2271107
DK 2271108
DK 2271109
DK 2391019

DK 2765708
DK 3,051,814
DK 3,054,679
EE 1,445,869
EE 1406450
EE 2,249,570
EE 2,249,576
EE 2,249,578
EE 2,293,581
EE 2,804,325
EE 2271107
EE 3,051,814
EE 3,054,679
EE 3,054,681
EE 3,094,088
EE 3,122,045
EE 3,122,046
EE 3,122,047
EE E007,924

ES 1,117,258 - Expires October 26, 2018

ES 1,406,451
ES 1,422,944
ES 1,439,713
ES 1,445,960
ES 1,515,567
ES 1,742,479
ES 1406450
ES 1411729
ES 2,009,923
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ES 2,384,002
ES 2,392,437
ES 2,392,513
ES 2,399,422
ES 2,408,013
ES 2,408,214
ES 2,408,241
ES 2,408,245
ES 2,410,533
ES 2,420,583
ES 2,804,325

ES 2188572 - Expires October 26, 2018

ES 2271105

ES 2271106
ES 2271107
ES 2271108
ES 2271109
ES 2391019
ES 2765708
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ES 3,059,952
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ES 914,008 - Expires October 26, 2018

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FR 0909099 - Expires September 15, 2018

FR 1,117,258 - Expires October 26, 2018

FR 1,117,259 - Expires October 26, 2018

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FR 2271107
FR 2271108
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FR 3,094,088
FR 3,122,045
FR 3,122,046
FR 3,122,047

FR 914,008 - Expires October 26, 2018
GB 0909099 - Expires September 15, 2018
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GB 914,008 - Expires October 26, 2018

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ID 14151 - Expires October 29, 2018

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IE 3,054,679

IN 206840 - Expires October 22, 2018

IN 227014
IN 229832
IN 239883
IN 241,349
IN 244365
IN 245493
IN 248159
IN 252037
IN 252250
IN 254220
IN 256815
IN 256817
IN 256819
IN 257432
IN 258289
IN 264,149
IN 277669
IN 278381
IN 279828

IT 1,117,258 - Expires October 26, 2018

IT 1,117,259 - Expires October 26, 2018

IT 1,406,451
IT 1,422,944
IT 1,439,713
IT 1,445,869
IT 1,445,960
IT 1,709,801

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IT 2,384,002

IT 2004B69800 - Expires September 15, 2018

IT 2271105
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IT 2271107
IT 2271108
IT 2271109
IT 2391019

IT 25962/BE/2013

IT 2765708
IT 3,051,814
IT 3,054,679
IT 3,059,952
IT 3,094,088

IT 73625/BE/2012

IT 914,008 - Expires October 26, 2018

IT MI2009B019817
IT TO2005B070288
IT TO2006B073836

JP 3,756,475
JP 3,824,268
JP 4,114,859
JP 4,125,739
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JP 4,150,742
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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 656,296

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LI 2391019
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MX 233931 - Expires October 29, 2018

MX 239,386
MX 239385
MX 240027
MX 243,908
MX 245,509

MX 246,993
MX 256,226
MX 256,733
MX 257,813
MX 258,980
MX 262,674
MX 263,264
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MX 282565
MY 118198
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PT 2271107
PT 2271108
PT 2271109
PT 2391019
PT 2765708
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SG 86337 - Expires October 25, 2018

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SI 2271107
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SI 2765708
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SK 3,122,045
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TH 30975 - Expires October 29, 2018

- TR 1,406,451
- TR 1,439,713
- TR 1,445,869
- TR 1406450
- TR 2,249,570
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- TR 2,293,581
- TR 2,804,325
- TR 200502315T4
- TR 2006 06449 T4
- TR 200808725
- TR 2271107
- TR 2271108
- TR 2271109
- TR 2391019
- TR 2765708
- TR 3,051,814
- TR 3,054,679
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- TR 3,094,088
- TR 3,122,045
- TR 3,122,046
- TR 3,122,047
- TW 259,726
- TW 280,058
- TW 320664
- TW 324889
- TW 325,281
- TW 379595

TW 383,530 - Expires October 22, 2018

- TW 414187
- TW I 272,013
- TW I492636
- TW I573442
- TW I573446
- TW I573447
- TW I575946

US 6,373,856 - Expires September 14, 2018

US 6,549,724 - Expires October 21, 2018

US 6,654,541 - Expires October 21, 2018

US 6,671,456 - Expires October 21, 2018

- US 6,954,156
- US 7,010,035

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US 7,126,989
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US 7,327,788
US 7,362,807
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US 7,733,960
US 7,742,526
US 7,756,204
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US 9,693,074
US 9,723,325
US 9,729,896
US 9,900,616
US 9,924,195
US 9,948,947
US 9,955,181

Polycorn, Inc.

AU 2002326713
BR PI 0212000-3
CA 2457882
CN 02816465.2
ID 100020475
IL 160476
IN 250484
JP 4,881,543
KR 691,307
MX 251254
NO 339116
NZ 531863
PH 1-2004-500254
RU 2291586
SG 102893
SZ RP/4/2006
US 7,239,662
VN 5559
ZA 2004/01377

Robert Bosch GmbH

AT 324012
BE 1,457,055
CH 1,457,055
DE 50206504
DK 1,457,055
ES 2262847
FI 1,457,055
FR 1,457,055
GB 1,457,055
IT 1,457,055
LI 1,457,055
NL 1,457,055
SE 1,457,055
TR 200602991

Samsung Electronics Co., Ltd.

CN 03107665.3
CN 03107666.1
CN 03107667.X
CN 03801207.3
CN 200410033037.0
CN 200410054953.2
CN 98122956.5
HK 1,056,286
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IN 203,511
IN 268596

JP 3,579,013
KR 313,870
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Sharp Corporation

CN 102638684
CN 200780031669.5
JP 4,454,678
US 8,194,997
US 8,532,176

Siemens AG

BR PI0109962-0
CA 2,406,164
CN 1122419
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CN 1297146
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DE 10225434
DE 50103996.1
DE 50105422
DE 59901416
FR 1,110,407
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FR 1,285,537
GB 1,110,407
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GB 1,285,537
IT 27721/BE/2002

RU 2270530
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US 7,245,773

Sony Corporation

CN 1,225,919
CN 101800897
CN 101800898B
DE 603 51 188.0
DE 603 51 189.9
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KR 988,006
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US 8,634,472
US 8,654,841
US 8,774,277
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US 9,532,068

Tagivan II LLC

AT-E 587837
AU 2003236034
BE 2,216,995
BR PI 0304549-8
CA 2,443,861
CH 2,216,995
CN 03800519.0
CN 200610095711.7
CN 200610095712.1
CN 200610095862.2
CN 200610095863.7
DE 60,342,802
DE 60320243.8
DE 60332974
DE 60342734.0
DE 60342803.7
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ES 2,400,945
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GB 2,216,997

ID 20546
IN 249851
IT 1,499,133
IT 1,773,067
IT 2,216,995
IT 20878/BE/2013
IT 21124/BE/2013
JP 4,130,783
JP 4,456,087
JP 5,167,232
JP 5,167,233
KR 947,689
KR 947,690
KR 947,691
KR 947,692
LI 2,216,995
MX 239456
MX 264923
MY 136,457
NL 1,499,133
NL 1,773,067
NL 2,216,995
NL 2,216,996
NL 2,216,997
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TR 1,499,133
TR 201302269
TW 281353
TW 323614
US 7,394,853
US 8,155,200
US 8,155,201
US 8,160,147
US 8,179,968
US 8,213,510
US 8,665,961
US 9,020,034
US 9,020,035
US 9,020,036
US 9,020,037
US 9,031,132
US 9,118,930

Telefonaktiebolaget LM Ericsson

AT 1,449,383
AU 2002353749
BE 1,449,383
BG 1,449,383
CH 1,449,383
CN 02823496.0

CY 1,449,383
CZ 1,449,383
DE 10296787.3
DE 60236886
DK 1,449,383
EE 1,449,383
ES 1,449,383
FI 1,449,383
FR 1,449,383
GB 1,449,383
GB 2,392,042
GR 1,449,383
IE 1,449,383
IN 218194
IN 231,901
IT 1,449,383
JP 4,133,346
JP 4,440,640
LI 1,449,383
LU 1,449,383
MC 1,449,383
NL 1,449,383
PT 1,449,383
RU 2,307,478
SE 1,449,383
SK 1,449,383
TR 1,449,383
US 6,907,071

Toshiba Corporation

AT-E 479,285
BE 1,414,245
BE 1,798,988
BR PI0304533-1
BR PI9708223-6
BR PI9715336-2
CA 2,473,771
CA 2,646,562
CH 1,414,245
CH 1,798,988
CN 200910145809.2
CN 200910145811.X
DE 60333892
DE 60334861
ES 2,351,306
ES 2,355,656
FI 1,414,245
FI 1,798,988
FR 1,414,245
FR 1,798,988

GB 1,414,245
GB 1,798,988
IT 67199/BE/2011
IT 72738/BE/2010
JP 4,015,934
JP 4,127,713
JP 4,127,714
JP 4,127,715
JP 4,127,716
JP 4,127,717
JP 4,127,718
JP 4,208,913
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JP 4,560,136
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LI 1,414,245

LI 1,798,988
MX 256,545
MX 282,317
NL 1,414,245
NL 1,798,988
NO 337383
NO 339262
NO 341,757
NO 341,761
SE 1,414,245
SE 1,798,988
US 7,599,437
US 7,616,691
US 7,649,941
US 7,649,942
US 7,672,375
US 7,675,973
US 7,675,975
US 7,680,184
US 7,684,485
US 7,702,018
US 7,738,557
US 7,864,853
US 7,885,332
US 7,885,333
US 7,903,740
US 7,944,972
US 7,944,973
US 7,949,048
US 9,066,081
US 9,888,252

Vidyo, Inc.

AU 2006 321552
AU 2007-230602
AU 2007309044
AU 2011205017
AU 2012 216587
AU 2012 226283
AU 2012-201235
AU 2012-202123
BE 2,005,607
CA 2,633,819
CA 2,666,601
CA 2,763,089
CA 2,829,290
CN 101371312
CN 105049894
CN 200780011497.5
CN 201280012331.6

CZ 2,005,607
DE 60 2007 047 834.0
ES 2,005,607
FR 2,005,607
GB 2,005,607
IT 2,005,607
JP 5,351,761
JP 5,640,104
JP 5,697,332
JP 5,769,740
JP 6,026,443
NL 2,005,607
PL 2,005,607
SE 2,005,607
TR 2,005,607
US 10,027,970
US 7,643,560
US 8,594,202
US 8,761,263
US 8,861,613
US 9,077,964
US 9,179,160
US 9,743,099
US Re. 44,939

CableTelevision Laboratories, Inc.

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

Dolby International AB

JP 2,951,861 - Expired March 10, 2009

JP 3,078,692 - Expired November 8, 2013

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 4,245,587 - Expired August 23, 2014

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

Dolby Laboratories Licensing Corporation

US 5,987,181 - Expired October 7, 2016

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 7,194,136 - 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

Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.

AT 2,123,052 - Expired October 31, 2017

CH 2,123,052 - Expired October 31, 2017

CY 2,123,052 - Expired October 17, 2017

DK 2,123,052 - Expired October 18, 2017

FI 2,123,052 - Expired October 31, 2017

IE 2,123,052 - Expired October 31, 2017

IS 2,123,052 - Expired October 31, 2017

LI 2,123,052 - Expired October 31, 2017

LT 2,123,052 - Expired October 18, 2017

LU 2,123,052 - Expired October 31, 2017

LV 2,123,052 - Expired October 31, 2017

MC 2,123,052 - Expired November 2, 2017

MT 2,123,052 - Expired October 18, 2017

RO 2,123,052 - Expired October 18, 2017

SI 2,123,052 - Expired October 18, 2017

SK 2,123,052 - Expired October 18, 2017

Fujitsu Limited

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

Godo Kaisha IP Bridge1

CN 200410063261.4 - Expired November 6, 2017
CN 200610099763.1 - Expired November 6, 2017
CN 97191584.9 - Expired November 6, 2017
DE 69,740,474 - Expired November 6, 2017
DE 69740464 - Expired November 6, 2017
FR 2,257,070 - Expired November 6, 2017
FR 2,257,071 - Expired November 6, 2017
GB 2,257,070 - Expired November 6, 2017
GB 2,257,071 - Expired November 6, 2017
JP 3,208,101 - Expired November 5, 2017
JP 3,222,876 - Expired November 5, 2017
JP 3,527,454 - Expired November 5, 2017
JP 3,735,244 - Expired October 29, 2017
KR 354,799 - Expired November 6, 2017
KR 425,613 - Expired November 6, 2017
SG 54,716 - Expired November 5, 2017
US 6,608,939 - Expired November 5, 2017
US 6,658,152 - Expired November 5, 2017
US 6,681,048 - Expired November 5, 2017

Google LLC

CA 2,230,562 - Expired February 25, 2018
MX 205,438 - Expired March 6, 2018
US Re. 38,563 - Expired October 5, 2017

JVC KENWOOD Corporation

JP 2,962,012 - Expired November 8, 2011
JP 3,060,376 - Expired August 30, 2011
US 5,103,307 - Expired January 17, 2011
US Re. 34,965 - Expired January 17, 2010
US Re. 35,158 - Expired January 17, 2010

Koninklijke Philips N.V.

AT 157,830 - Expired June 3, 2011
AU 641,726 - Expired February 20, 2011
BE 0460751 - Expired June 3, 2011
CA 2,018,031 - Expired June 1, 2010
CA 2,036,585 - Expired February 19, 2011
CA 2,043,670 - Expired May 31, 2011
CA 2,304,917 - Expired June 1, 2010
DE 69109346.6 - Expired February 18, 2011
DE 69127504 - Expired June 3, 2011
DK 0443676 - Expired February 18, 2011
DK 0460751 - Expired June 3, 2011
FI 101,442 - Expired February 19, 2011
FR 0443676 - Expired February 18, 2011
FR 0460751 - Expired June 3, 2011
GB 0443676 - Expired February 18, 2011

GB 0460751 - Expired June 3, 2011
HK 96-615 - Expired February 18, 2011
IT 0443676 - Expired February 18, 2011
IT 52497 BE/97 - Expired June 3, 2011
JP 2,791,822 - Expired June 2, 2010
JP 3,162,110 - Expired June 4, 2011
JP 3,174,586 - Expired February 20, 2011
JP 3,280,999 - Expired June 4, 2011
KR 114,697 - Expired January 8, 2012
KR 239,837 - Expired June 4, 2011
NL 0443676 - Expired February 18, 2011
NL 0460751 - Expired June 3, 2011
SE 0443676 - Expired February 18, 2011
SE 0460751 - Expired June 3, 2011
SG 9690467.7 - Expired February 18, 2011
US 4,849,812 - Expired February 23, 2008
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 237,636 - Expired November 2, 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 7,262,886 - Expired January 21, 2018
US 7,277,593 - Expired January 21, 2018
US 7,289,682 - Expired January 21, 2018
US 7,359,569 - Expired January 21, 2018
US 7,391,921 - Expired January 21, 2018
US 7,391,922 - Expired January 21, 2018
US 7,394,945 - Expired January 21, 2018
US 7,397,965 - Expired January 21, 2018
US 7,403,667 - Expired January 21, 2018
US 7,437,015 - Expired May 23, 2018
US 7,463,786 - Expired January 21, 2018
US 7,492,959 - Expired January 21, 2018
US 7,492,960 - Expired January 21, 2018
US 7,492,961 - Expired January 21, 2018
US 7,496,239 - Expired January 21, 2018
US 7,499,598 - Expired January 21, 2018
US 7,599,571 - Expired January 21, 2018

US 7,616,831 - Expired January 21, 2018
US 7,616,832 - Expired January 21, 2018
US 7,616,833 - Expired January 21, 2018
US 7,620,262 - Expired January 21, 2018

Maxell, Ltd.

JP 3,191,935 - Expired November 30, 2010
JP 3,303,869 - Expired November 30, 2010

Microsoft Corporation

US 7,162,091 - Expired May 23, 2018

Mitsubishi Electric Corporation

CA 2,327,489 - Expired October 21, 2012
CN 200610100796.3 - Expired January 21, 2018
CN 200610101834.7 - Expired January 21, 2018
CN 200810086603.2 - Expired March 6, 2018
DE 69843236 - Expired January 22, 2018
FR 1,887,806 - Expired January 22, 2018
HK 1,109,278 - Expired January 22, 2018
HK 1109001 - Expired January 22, 2018
HK 1125523 - Expired March 6, 2018
JP 1,869,940 - Expired March 8, 2005
JP 3,347,954 - Expired October 22, 2016
JP 4,260,786 - Expired January 22, 2018
JP 4,326,758 - Expired October 22, 2016
JP 4,388,771 - Expired June 23, 2018
JP 4,441,182 - Expired June 28, 2016
JP 4,514,734 - Expired February 25, 2018
JP 4,514,818 - Expired February 25, 2018
JP 4,514,819 - Expired February 25, 2018
JP 4,571,173 - Expired October 22, 2016
JP 4,708,263 - Expired March 6, 2018
JP 4,755,242 - Expired January 22, 2018
JP 4,819,865 - Expired January 22, 2018
JP 4,875,187 - Expired October 22, 2016
JP 4,963,496 - Expired January 22, 2018
JP 4,963,520 - Expired January 22, 2018
JP 4,963,526 - Expired January 22, 2018
JP 5,138,086 - Expired February 25, 2018
JP 5,258,991 - Expired January 22, 2018
KR 254,070 - Expired February 5, 2017
MX 279,337 - Expired March 6, 2018
MX 316,879 - Expired March 6, 2018
NO 310,850 - Expired October 21, 2012
US 5,926,225 - Expired October 31, 2016
US 6,097,759 - Expired October 15, 2012
US 8,824,561 - Expired March 5, 2018

NEWRACOM, Inc.

KR 166,264 - Expired October 31, 2015

Nippon Telegraph and Telephone Corporation

JP 2,938,412 - Expired September 2, 2017

Orange SA

DE 3767919 - Expired May 26, 2007

FI 86,241 - Expired May 28, 2007

FR 2,599,577 - Expired May 29, 2006

GB 248,711 - Expired May 26, 2007

IT 248,711 - Expired May 26, 2007

SE 248,711 - Expired May 26, 2007

US 4,796,087 - Expired May 31, 2007

Panasonic Corporation

CN 01118860.X - Expired February 5, 2018

CN 01118861.8 - Expired February 5, 2018

CN 98800434.8 - Expired February 5, 2018

DE 69813635.7 - Expired February 5, 2018

ES 2195965 - Expired February 5, 2018

FR 1,113,673 - Expired February 5, 2018

GB 1,113,673 - Expired February 5, 2018

ID 10,293 - Expired February 5, 2018

IN 213,894 - Expired February 5, 2018

IT 1,113,673 - Expired February 5, 2018

JP 2,794,899 - Expired May 8, 2010

JP 3,234,807 - Expired February 3, 2018

JP 3,234,830 - Expired February 3, 2018

KR 303,054 - Expired February 5, 2018

MX 220,076 - Expired February 5, 2018

SG 56,895 - Expired February 5, 2018

TH 25,132 - Expired February 3, 2018

TW 136,357 - Expired February 6, 2018

US 5,223,949 - Expired April 16, 2012

US 6,445,739 - Expired February 4, 2018

US 6,501,793 - Expired February 4, 2018

US 7,860,159 - Expired February 4, 2018

US Re. 35,910 - Expired May 10, 2010

Polycom, Inc.

US 5,367,385 - Expired May 6, 2012

Robert Bosch GmbH

DE 3769306 - Expired December 11, 2007
FR 0279053 - Expired December 11, 2007
GB 0279053 - Expired December 11, 2007
IT 0279053 - Expired December 11, 2007
NL 0279053 - Expired December 11, 2007

Samsung Electronics Co., Ltd.

CN 200410005357.5 - Expired June 18, 2018
CN 93106014.1 - Expired May 18, 2013
DE 69321781 - Expired July 23, 2013
FR 580,454 - Expired July 23, 2013
GB 580,454 - Expired July 23, 2013
HK 1,008,711 - Expired July 23, 2013
JP 2,665,127 - Expired June 18, 2013
JP 2,728,619 - Expired April 16, 2013
JP 3,369,422 - Expired June 22, 2013
JP 3,442,028 - Expired June 22, 2013
KR 103,834 - Expired December 7, 2011
KR 132,895 - Expired July 24, 2012
KR 147,549 - Expired February 28, 2012
KR 148,130 - Expired May 18, 2012
KR 148,226 - Expired December 16, 2013
KR 152,017 - Expired July 30, 2012
KR 162,196 - Expired December 23, 2011
KR 166,716 - Expired June 18, 2012
KR 178,711 - Expired July 9, 2012
KR 205,293 - Expired November 26, 2016
KR 304,660 - Expired November 8, 2015
KR 335,622 - Expired June 30, 2016
RU 2,072,562 - Expired May 17, 2013
US 5,384,849 - Expired May 17, 2013
US 5,467,086 - Expired June 17, 2013
US 5,654,706 - Expired July 22, 2013
US 6,680,975 - Expired February 28, 2013
US 7,292,657 - Expired February 28, 2013

Siemens AG

DE 59712594 - Expired June 23, 2017
DE 59713073 - Expired June 23, 2017
FR 1,648,174 - Expired June 23, 2017
FR 2737931 - Expired August 9, 2016
FR 817,496 - Expired June 23, 2017
GB 1,648,174 - Expired June 23, 2017
GB 2304485 - Expired August 15, 2016
GB 817,496 - Expired June 23, 2017
IT 26233/BE/2006 - Expired June 23, 2017
IT 30464/BE/2012 - Expired June 23, 2017
US 5,933,541 - Expired August 15, 2016
US 6,115,503 - Expired July 2, 2017

Sony Corporation

AT 171,831 - Expired December 28, 2012
AT 180,374 - Expired July 28, 2012
AT 209,422 - Expired July 28, 2012
AT 224,627 - Expired July 28, 2012
AU 669983 - Expired October 12, 2010
CA 2,092,295 - Expired July 28, 2012
DE 69227185 - Expired December 28, 2012
DE 69229229 - Expired July 28, 2012
DE 69232357 - Expired July 28, 2012
DE 69232784 - Expired July 28, 2012
FR 573,665 - Expired December 28, 2012
FR 598,904 - Expired July 28, 2012
FR 898,426 - Expired July 28, 2012
FR 907,289 - Expired July 28, 2012
GB 573,665 - Expired December 28, 2012
GB 598,904 - Expired July 28, 2012
HK 1,032,871 - Expired July 28, 2012
HK 1,033,059 - Expired July 28, 2012
IT RM1998B052096 - Expired December 28, 2012
IT RM1999B050448 - Expired July 28, 2012
IT RM2002B048140 - Expired July 28, 2012
IT RM2002B052345 - Expired July 28, 2012
JP 3,992,303 - Expired June 22, 2015
KR 260,475 - Expired December 28, 2012
NL 573,665 - Expired December 28, 2012
US 4,864,393 - Expired May 30, 2008
US 5,510,840 - Expired April 22, 2013
US 5,539,466 - Expired July 22, 2013
US 5,774,594 - Expired June 19, 2016
US 6,160,849 - Expired December 11, 2017
US Re. 37,222 - Expired October 11, 2010

The Trustees of Columbia University in the City of New York

CA 2,096,431 - Expired December 3, 2011
CA 2,281,538 - Expired February 13, 2018
CH 1,209,915 - Expired February 13, 2018
DE 69129595 - Expired December 3, 2011
DE 69130329 - Expired December 3, 2011
DE 69835039.1 - Expired February 13, 2018
ES 2266396 - Expired February 13, 2018
FI 1,209,915 - Expired February 13, 2018
FR 1,209,915 - Expired February 13, 2018
FR 564,597 - Expired December 3, 2011
FR 630,157 - Expired December 3, 2011
GB 1,209,915 - Expired February 13, 2018
GB 564,597 - Expired December 3, 2011
GB 630,157 - Expired December 3, 2011

IT 1,209,915 - Expired February 13, 2018
JP 2,746,749 - Expired December 3, 2011
JP 4,393,591 - Expired February 13, 2018
LI 1,209,915 - Expired February 13, 2018
SE 1,209,915 - Expired February 13, 2018
US 7,199,836 - Expired February 12, 2018
US 8,115,873 - Expired February 12, 2018
US 8,531,608 - Expired February 12, 2018
US 8,854,552 - Expired February 12, 2018
US 8,917,357 - Expired February 12, 2018
US Re. 35,093 - Expired December 2, 2010

Toshiba Corporation

CA 2,249,540 - Expired March 18, 2017
CN 200610093891.5 - Expired March 17, 2017
CN 200610093894.9 - Expired March 17, 2017
CN 97193909.8 - Expired March 18, 2017
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 3,657,957 - Expired September 13, 2016
JP 3,657,965 - Expired September 13, 2016
JP 3,657,967 - Expired September 13, 2016
JP 3,657,968 - 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 4,282,756 - Expired March 27, 2012
KR 685,771 - Expired March 18, 2017
KR 685,772 - Expired March 18, 2017
KR 841,974 - Expired March 18, 2017
MX 252,913 - Expired March 18, 2017
MX 280,222 - Expired March 18, 2017
US 5,930,395 - 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 7,321,995 - Expired October 17, 2017
US 7,454,669 - Expired September 26, 2016
US 7,464,305 - Expired September 29, 2016
US 7,472,317 - Expired December 18, 2016
US 7,475,298 - Expired July 12, 2017
US 7,487,410 - Expired May 12, 2017
US 7,669,108 - Expired September 26, 2016

Vidvo, Inc.

CA 2,667,194 - Expired October 23, 2017

CN 101601296 - Expired October 22, 2017

ZTE Corporation

KR 174,441 - Expired July 21, 2015

KR 229,783 - Expired July 29, 2014

¹Replaced US 6,594,400 of which it is a reissue.

Addendum of Patents of Withdrawn Licensors

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

US 7,155,055 (withdrawn by Zhigu Holdings Limited October 14, 2017)

US 7,020,200 (withdrawn by LSI Corporation July 15, 2007)

Addendum of Patents Removed from AVC Attachment 1

Each patent listed below was previously found essential for part of the AVC Standard that has now been deleted from the AVC Standard effective as of the date listed next to the removed patent. Those licensees with an AVC Patent Portfolio License in effect *prior to* the date of removal indicated next to each patent retain their license under the respective removed patent *on and after* the indicated removal date.

LG Electronics Inc.

US 6,862,043* removed as of December 5, 2008

Panasonic Corporation

CH 1,452,039 lapsed effective November 30, 2009

LI 1,452,039 lapsed effective November 30, 2009

* Was previously found essential for part of the AVC Standard that has now been deleted from the AVC Standard effective as of the date listed next to the removed patent.