

**Apple Inc.**

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**Cisco Systems Canada Co.**

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**Cisco Technology, Inc.**

US 7,684,489

**Dolby International AB**

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**Fujitsu Limited**

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**GE Video Compression, LLC**

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**Mitsubishi Electric Corporation**

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**NEC Corporation**

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**Nippon Telegraph and Telephone Corporation**

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**NTT DOCOMO, INC.**

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IT 25962/BE/2013  
IT 73625/BE/2012  
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**Polycom, 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  
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RU 2291586  
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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  
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**Samsung Electronics Co., Ltd.**

CN 03801207.3  
CN 200410033037.0  
IN 203,511  
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KR 460,970  
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**Sharp Corporation**

CN 102638684  
CN 200780031669.5  
JP 4,454,678  
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Siemens AG

BR PI0109962-0  
CA 2,406,164  
CN 1122419 - Expires June 30, 2019  
CN 1204752C  
CN 1297146  
DE 10143063  
DE 10225434  
DE 50103996.1  
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DE 59901416 - Expires July 1, 2019  
FR 1,110,407 - Expires July 1, 2019  
FR 1,279,291  
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GB 1,110,407 - Expires July 1, 2019  
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IT 27721/BE/2002 - Expires July 1, 2019  
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Sony Corporation

CN 1,225,919  
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**Tagivan II LLC**

AT-E 587837  
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**Telefonaktiebolaget LM Ericsson**

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**Toshiba Corporation**

AT-E 479,285  
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JP 4,331,259  
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JP 4,538,570  
JP 4,538,571  
JP 4,560,136  
JP 4,560,137  
JP 4,560,138  
JP 4,560,139  
JP 4,560,140  
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

Vidvo, Inc.

AU 2007-230602  
AU 2012-201235  
AU 2012-202123  
AU 2006 321552  
AU 2007309044  
AU 2011205017  
AU 2012 216587  
AU 2012 226283  
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 Re. 44,939  
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 10,027,970

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

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

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

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

**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**

JP 4,142,180 - Expired October 29, 2018

JP 4,184,388 - Expired October 29, 2018

JP 4,184,389 - Expired October 29, 2018

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

**Godo Kaisha JP Bridge1**

CN 97191584.9 - Expired November 6, 2017  
CN 200410063261.4 - Expired November 6, 2017  
CN 200610099763.1 - Expired November 6, 2017  
DE 69740464 - Expired November 6, 2017  
DE 69,740,474 - 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

**HP Inc.**

US 6,741,746 - Expired March 16, 2019

**JVC KENWOOD Corporation**

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

**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 52497 BE/97 - Expired June 3, 2011  
IT 0443676 - Expired February 18, 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

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

AU 717,480 - Expired January 20, 2019  
KR 301,013 - Expired August 1, 2018  
RU 2,154,918 - Expired January 20, 2019  
SG 70679 - Expired April 14, 2019

**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 6,912,351 - Expired October 18, 2018  
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 7,403,663 - Expired October 18, 2018  
US 7,403,667 - Expired January 21, 2018  
US 7,424,159 - Expired October 18, 2018  
US 7,433,525 - Expired October 18, 2018  
US 7,437,015 - Expired May 23, 2018  
US 7,440,627 - Expired October 18, 2018  
US 7,447,367 - Expired October 18, 2018  
US 7,463,776 - Expired October 18, 2018  
US 7,463,786 - Expired January 21, 2018  
US 7,486,832 - Expired October 18, 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 7,577,303 - Expired October 18, 2018  
US 7,577,304 - Expired October 18, 2018  
US 7,580,583 - Expired October 18, 2018  
US 7,587,090 - Expired October 18, 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 6,563,953 - Expired November 29, 2018  
US 6,735,345 - Expired January 12, 2019  
US 6,912,584 - Expired March 11, 2019  
US 7,110,609 - Expired March 25, 2019  
US 7,162,091 - Expired May 23, 2018  
US 7,181,072 - Expired August 6, 2018  
US 7,289,673 - Expired November 29, 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  
DE 698 43 334.3 - Expired October 23, 2018  
DE 698 43 337.8 - Expired October 23, 2018  
FI 2,187,641 - Expired October 23, 2018  
FI 2,306,723 - Expired October 23, 2018  
FR 1,887,806 - Expired January 22, 2018  
FR 2,187,641 - Expired October 23, 2018  
FR 2,306,723 - Expired October 23, 2018  
GB 2,187,641 - Expired October 23, 2018  
GB 2,306,723 - Expired October 23, 2018  
HK 1109001 - Expired January 22, 2018  
HK 1,109,278 - Expired January 22, 2018  
HK 1125523 - Expired March 6, 2018  
HK 1,140,347 - Expired October 22, 2018  
HK 1,151,915 - Expired October 22, 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  
NL 2,187,641 - Expired October 23, 2018  
NL 2,306,723 - Expired October 23, 2018  
NO 310,850 - Expired October 21, 2012  
SE 2,187,641 - Expired October 23, 2018  
SE 2,306,723 - Expired October 23, 2018  
US 5,926,225 - Expired October 31, 2016  
US 6,097,759 - Expired October 15, 2012  
US 7,970,217 - Expired October 22, 2018  
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

US 6,934,331 - Expired February 2, 2019

**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**

CH 1,452,039 - Expired November 30, 2009

CN 01118860.X - Expired February 5, 2018

CN 01118861.8 - Expired February 5, 2018

CN 01137469.1 - Expired October 29, 2018

CN 098121454.1 - Expired October 29, 2018

CN 98800434.8 - Expired February 5, 2018

DE 69805036.3 - Expired October 26, 2018

DE 69810971 - Expired October 26, 2018

DE 69812190.2 - Expired October 26, 2018

DE 69813635.7 - Expired February 5, 2018

DE 69822751.4 - Expired September 15, 2018

ES 914,008 - Expired October 26, 2018

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

ES 2188572 - Expired October 26, 2018

ES 2195965 - Expired February 5, 2018

FR 0909099 - Expired September 15, 2018

FR 914,008 - Expired October 26, 2018

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

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

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

GB 0909099 - Expired September 15, 2018

GB 914,008 - Expired October 26, 2018

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

GB 1,117,258 - Expired October 26, 2018

GB 1,117,259 - Expired October 26, 2018

ID 10,293 - Expired February 5, 2018

ID 14151 - Expired October 29, 2018

IN 206840 - Expired October 22, 2018

IN 213,894 - Expired February 5, 2018

IT 2004B69800 - Expired September 15, 2018

IT 914,008 - Expired October 26, 2018

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

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



IT 1,117,259 - Expired October 26, 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  
KR 384,918 - Expired October 31, 2018  
KR 525,862 - Expired October 31, 2018  
KR 530,394 - Expired October 31, 2018  
KR 530,395 - Expired October 31, 2018  
LI 1,452,039 - Expired November 30, 2009  
MX 220,076 - Expired February 5, 2018  
MX 233931 - Expired October 29, 2018  
SG 56,895 - Expired February 5, 2018  
SG 86337 - Expired October 25, 2018  
TH 25,132 - Expired February 3, 2018  
TH 30975 - Expired October 29, 2018  
TW 136,357 - Expired February 6, 2018  
TW 383,530 - Expired October 22, 2018  
US Re. 35,910 - Expired May 10, 2010  
US 5,223,949 - Expired April 16, 2012  
US 6,373,856 - Expired September 14, 2018  
US 6,445,739 - Expired February 4, 2018  
US 6,501,793 - Expired February 4, 2018  
US 6,549,724 - Expired October 21, 2018  
US 6,654,541 - Expired October 21, 2018  
US 6,671,456 - Expired October 21, 2018  
US 7,860,159 - Expired February 4, 2018

**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 03107665.3 - Expired November 30, 2018  
CN 03107666.1 - Expired November 30, 2018  
CN 03107667.X - Expired November 30, 2018  
CN 93106014.1 - Expired May 18, 2013  
CN 98122956.5 - Expired November 30, 2018  
CN 200410005357.5 - Expired June 18, 2018  
CN 200410054953.2 - Expired December 1, 2018  
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  
HK 1,056,286 - Expired November 30, 2018  
HK 1,056,287 - Expired November 30, 2018  
HK 1,059,699 - Expired November 30, 2018  
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  
JP 3,579,013 - Expired December 1, 2018  
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 313,870 - Expired December 1, 2018  
KR 335,622 - Expired June 30, 2016  
KR 359,093 - Expired December 1, 2018  
KR 375,345 - Expired December 1, 2018  
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 817,496 - Expired June 23, 2017  
FR 1,648,174 - Expired June 23, 2017  
FR 2737931 - Expired August 9, 2016  
GB 817,496 - Expired June 23, 2017  
GB 1,648,174 - Expired June 23, 2017  
GB 2304485 - Expired August 15, 2016  
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### **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. Those licensees with an AVC 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.

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 *on or prior to* the date of removal indicated next to each patent retain their license under the respective removed patent after the indicated removal date.

LG Electronics Inc.

US 6,862,043\*

removed as of December 5, 2008

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\* 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.