CATV Essential Patent Portfolio

October 1, 2026

Dolby International AB

JP5562408

INFOCITY, Inc.

JP5247097

JP6310109

JP7125692

JP7776095

INFOCITY, Inc. / Nippon Hoso Kyokai

JP6789553

InterDigital CE Patent Holdings, SAS

JP5877065

JP6176871

JVCKENWOOD Corporation

JP4620788

JP5070979

KDDI CORPORATION

JP5254162

LG Electronics Inc.

JP6291081

JP6392792

Maxell, Ltd.

JP4431598

JP4431599

JP4565049

JP4629789

JP4629790

JP4629791

JP4997362

Maxell, Ltd.

JP5002370

JP5063827

JP5081512

JP5095018

JP5095026

JP5111542

JP5111543

JP5114600

JP5156795

JP5188634

JP5223027

JP5223028

JP5223029

JP5223030

JP5236112

JP5236113

JP5241945

JP5241946

JP5372383

JP5380614

JP5413534

JP5450875

JP5450876

JP5501081

JP5522644

JP5559605

JP5588489

JP5603475

JP5684415

JP5695150

Maxell, Ltd.

JP5710895

JP5805835

JP5849126

JP5896436

MxH Corporation

JP7206449

JP7542271

JP7598685

NEC Corporation

JP5300074

JP5682181

NHK Foundation

JP5113954

JP5113955

Nippon Hoso Kyokai

JP5156037

JP5156038

JP5156039

JP5156143

JP5156144

JP5175883

JP5269237

JP5269238

JP5269239

JP5269240

JP5269241

JP5271445

Nippon Hoso Kyokai

JP5544395

JP5548726

JP5584729

JP5584730

JP5586657

JP5586658

JP5586770

JP5923137

JP5953111

JP6018796

JP6068721

JP6097443

JP6101384

JP6154972

JP6214809

JP6214810

JP6214811

JP6271065

JP6271066

JP6275308

JP6323805

JP6388295

JP6803357

JP6858303

JP7300250

Orange SA

JP5396600

Panasonic Holdings Corporation

JP7410107

Sharp Corporation

JP4786739

JP6363745

Sony Group Corporation

JP5516826

JP5595590

JP5696913

JP5696914

JP5696915

JP5708874

JP5708875

JP5725390

JP5725391

JP5725392

JP5757601

JP5777793

JP5777794

Toshiba Corporation

JP5254411

JP5479631

JP5921398

JP6239674

TVS REGZA Corporation

JP5087022

JP5132808

JP7230096

JP7230097

JP7230133

JP7230134

TVS REGZA Corporation

JP7230135

JP7230136

Fujitsu Limited

JP3918329	* Expired November 24, 2018
JP4603570	* Expired March 31, 2023
JP4791521	* Expired March 31, 2023
JP4791583	* Expired March 31, 2023

INFOCITY, Inc.

JP3759720	* Expired May 13, 2017
JP4302537	* Expired January 7, 2024

InterDigital CE Patent Holdings, SAS

JP2806587	* Expired October 20, 2009
JP3169903	* Expired January 31, 2017
JP3380252	* Expired November 22, 2013
JP3699129	* Expired May 22, 2017
JP3880616	* Expired December 1, 2014
JP3881236	* Expired January 4, 2015
JP4070831	* Expired November 20, 2015
JP4173535	* Expired March 15, 2015
JP4174549	* Expired November 20, 2015
JP4251668	* Expired August 21, 2015
JP4347275	* Expired August 20, 2013
JP4347276	* Expired August 20, 2013
JP4418754	* Expired October 2, 2023
JP4527135	* Expired August 21, 2015
JP4623524	* Expired August 21, 2015
JP4671248	* Expired August 20, 2013
JP4729176	* Expired October 8, 2019

JVCKENWOOD Corporation

JP2521160	* Expired November 7, 2009
JP2853727	* Expired February 22, 2014

JVCKENWOOD Corporation

JP2874729	* Expired January 30, 2015
JP3102416	* Expired February 22, 2014
JP3156892	* Expired July 30, 2013
JP3156893	* Expired August 19, 2013
JP3405345	* Expired January 24, 2020
JP3405347	* Expired January 24, 2020
JP3405348	* Expired January 24, 2020
JP3422458	* Expired July 11, 2017
JP3431609	* Expired July 11, 2017
JP3453696	* Expired November 7, 2016
JP3518757	* Expired January 30, 2015
JP3518761	* Expired January 30, 2015
JP3582428	* Expired November 16, 2019
JP3627734	* Expired October 29, 2013
JP3804865	* Expired January 30, 2015
JP3830074	* Expired June 15, 2020
JP4221732	* Expired October 29, 2013
JP4269506	* Expired September 29, 2020
JP4743237	* Expired September 29, 2020
JP4884505	* Expired September 29, 2020
JP5214039	* Expired September 29, 2020

JVCKENWOOD Corporation / Panasonic Holdings Corporation

JP2924538	* Expired January 28, 2013
JP3405344	* Expired January 24, 2020
JP3405346	* Expired January 24, 2020

LG Electronics Inc.

JP4278657	* Expired March 19, 2018
JP4806702	* Expired May 13, 2022

Maxell, Ltd.

JP2760799	* Expired April 28, 2008
JP2798086	* Expired April 28, 2008
JP2798087	* Expired April 28, 2008
JP2870531	* Expired April 28, 2008
JP2870532	* Expired April 28, 2008
JP2980085	* Expired April 28, 2008
JP2989742	* Expired May 20, 2014
JP2993487	* Expired April 28, 2008
JP3025658	* Expired July 20, 2010
JP3031285	* Expired July 20, 2010
JP3075063	* Expired February 17, 2014
JP3119116	* Expired June 7, 2015
JP3178467	* Expired July 20, 2010
JP3217137	* Expired July 28, 2012
JP3275881	* Expired April 28, 2008
JP3275916	* Expired July 20, 2010
JP3277894	* Expired April 28, 2008
JP3443572	* Expired July 28, 2012
JP3491431	* Expired February 20, 2016
JP3496635	* Expired March 22, 2014
JP3498403	* Expired February 10, 2015
JP3502241	* Expired August 28, 2011
JP3502260	* Expired August 28, 2011
JP3520595	* Expired March 29, 2015
JP3527908	* Expired July 28, 2012
JP3591274	* Expired February 17, 2018
JP3652176	* Expired August 13, 2019
JP3661001	* Expired July 20, 2010
JP3731379	* Expired April 8, 2019
JP3780079	* Expired October 29, 2017

Maxell, Ltd.

JP3780780	* Expired November 19, 2019
JP3785010	* Expired December 1, 2019
JP3795266	* Expired July 30, 2019
JP3838265	* Expired April 8, 2019
JP3922110	* Expired February 20, 2016
JP4029569	* Expired January 10, 2021
JP4042419	* Expired January 31, 2022
JP4062890	* Expired April 20, 2021
JP4103933	* Expired January 11, 2022
JP4103934	* Expired January 11, 2022
JP4103935	* Expired January 11, 2022
JP4162033	* Expired April 20, 2021
JP4192995	* Expired November 10, 2017
JP4201055	* Expired January 31, 2022
JP4208033	* Expired April 19, 2016
JP4225365	* Expired January 22, 2021
JP4238928	* Expired January 31, 2022
JP4254903	* Expired April 20, 2021
JP4299976	* Expired March 2, 2021
JP4300190	* Expired July 31, 2017
JP4332284	* Expired June 9, 2020
JP4340693	* Expired March 2, 2021
JP4340694	* Expired March 2, 2021
JP4340702	* Expired February 16, 2021
JP4340708	* Expired February 16, 2021
JP4340709	* Expired February 16, 2021
JP4345694	* Expired April 27, 2015
JP4353306	* Expired February 17, 2014
JP4360382	* Expired January 19, 2019
JP4379428	* Expired December 17, 2016

Maxell, Ltd.

JP4379528	* Expired March 28, 2022
JP4400530	* Expired November 19, 2019
JP4406672	* Expired September 30, 2024
JP4424118	* Expired December 1, 2019
JP4431617	* Expired October 29, 2017
JP4431619	* Expired October 29, 2017
JP4431633	* Expired December 17, 2016
JP4431635	* Expired December 17, 2016
JP4443060	* Expired February 9, 2021
JP4474434	* Expired January 19, 2019
JP4474486	* Expired December 3, 2023
JP4484840	* Expired June 9, 2020
JP4484945	* Expired February 17, 2018
JP4500847	* Expired December 15, 2020
JP4512664	* Expired June 9, 2020
JP4538414	* Expired October 19, 2021
JP4538488	* Expired July 31, 2017
JP4538489	* Expired July 31, 2017
JP4547097	* Expired January 22, 2021
JP4558100	* Expired February 17, 2018
JP4576066	* Expired April 10, 2021
JP4576471	* Expired January 10, 2023
JP4576481	* Expired January 10, 2023
JP4597229	* Expired June 25, 2018
JP4597231	* Expired October 19, 2021
JP4597252	* Expired February 9, 2021
JP4597266	* Expired October 19, 2021
JP4613212	* Expired October 13, 2024
JP4625764	* Expired December 20, 2025
JP4627790	* Expired January 22, 2021

Maxell, Ltd.

JP4637226	* Expired January 10, 2021
JP4637254	* Expired March 28, 2022
JP4654302	* Expired February 28, 2021
JP4654307	* Expired June 25, 2018
JP4654319	* Expired February 9, 2021
JP4663601	* Expired July 28, 2018
JP4686584	* Expired December 15, 2017
JP4686632	* Expired December 15, 2017
JP4686641	* Expired December 15, 2017
JP4709298	* Expired April 10, 2021
JP4719818	* Expired February 9, 2021
JP4729634	* Expired December 3, 2023
JP4729635	* Expired December 3, 2023
JP4734464	* Expired February 28, 2021
JP4734482	* Expired February 28, 2021
JP4740384	* Expired January 10, 2021
JP4742176	* Expired June 25, 2018
JP4747223	* Expired December 15, 2020
JP4751953	* Expired December 15, 2020
JP4751959	* Expired April 10, 2021
JP4783850	* Expired June 21, 2021
JP4790825	* Expired July 28, 2018
JP4790850	* Expired January 10, 2023
JP4792543	* Expired July 28, 2018
JP4797088	* Expired November 19, 2019
JP4871992	* Expired October 13, 2024
JP4876189	* Expired June 21, 2021
JP4901993	* Expired October 13, 2024
JP4959851	* Expired June 21, 2021
JP5002699	* Expired October 13, 2024

Maxell, Ltd.

JP5017474	* Expired December 20, 2025
JP5050122	* Expired October 13, 2024
JP5050129	* Expired October 13, 2024
JP5063629	* Expired June 4, 2021
JP5095022	* Expired December 20, 2025
JP5156803	* Expired June 4, 2021
JP5292371	* Expired October 11, 2022
JP5478690	* Expired June 4, 2021

Maxell, Ltd. / Nippon Hoso Kyokai

JP3884881	* Expired May 21, 2019
JP4414969	* Expired May 21, 2019
JP4791567	* Expired May 21, 2019

Mitsubishi Electric Corporation

JP2935788	* Expired June 4, 2013
JP3172425	* Expired February 1, 2016
JP3215952	* Expired April 7, 2012
JP3216531	* Expired July 24, 2016
JP3216534	* Expired August 29, 2016
JP3301055	* Expired March 29, 2016
JP3316572	* Expired April 7, 2012
JP3316573	* Expired April 7, 2012
JP3468115	* Expired August 4, 2018
JP3505378	* Expired January 29, 2018
JP3740712	* Expired June 13, 2015
JP3800886	* Expired October 12, 2019
JP3817816	* Expired March 12, 2017
JP3909947	* Expired February 16, 2018
JP4040053	* Expired March 12, 2017
JP4040078	* Expired March 12, 2017

Mitsubishi Electric Corporation

JP4089714	* Expired June 13, 2015
JP4096995	* Expired June 13, 2015
JP4250817	* Expired August 4, 2019
JP4250832	* Expired October 14, 2019
JP4270833	* Expired September 27, 2022
JP4303085	* Expired October 23, 2023
JP4336063	* Expired June 12, 2021
JP4553996	* Expired May 14, 2018
JP4697369	* Expired July 12, 2021
JP4844588	* Expired February 1, 2020
JP4888458	* Expired October 14, 2019
JP4888459	* Expired October 14, 2019
JP4947192	* Expired May 14, 2018
JP4947198	* Expired May 14, 2018
JP5071569	* Expired February 1, 2020
JP5267707	* Expired February 1, 2020

NEC Corporation

JP3090137	* Expired January 29, 2019
JP3332072	* Expired April 9, 2018
JP3531604	* Expired November 24, 2020
JP3832321	* Expired November 20, 2021
JP4045805	* Expired January 11, 2022
JP4051968	* Expired March 7, 2022
JP4666231	* Expired November 30, 2025
JP4973790	* Expired January 28, 2025
JP5056965	* Expired October 5, 2015

Nippon Hoso Kyokai

JP2883238	* Expired February 6, 2012
JP2904986	* Expired January 31, 2012

Nippon Hoso Kyokai

JP3051729	* Expired December 11, 2018
JP3096020	* Expired December 16, 2017
JP3103617	* Expired June 13, 2011
JP3253524	* Expired May 28, 2016
JP3691211	* Expired May 30, 2017
JP3795183	* Expired May 16, 2017
JP3884869	* Expired September 25, 2018
JP4266387	* Expired November 13, 2020
JP4806444	* Expired May 24, 2021

Orange SA

JP4391412	* Expired April 30, 2023
JP4673302	* Expired June 2, 2024

Orange SA / TDF SAS

JP3044899	* Expired January 17, 2012
JP3827718	* Expired June 13, 2015

Panasonic Holdings Corporation

JP3008651	* Expired March 27, 2012
JP3061053	* Expired March 27, 2012
JP3061054	* Expired March 27, 2012
JP3109552	* Expired March 26, 2013
JP3114727	* Expired March 27, 2012
JP3153188	* Expired September 14, 2018
JP3154704	* Expired March 26, 2013
JP3154705	* Expired March 26, 2013
JP3154706	* Expired March 26, 2013
JP3154707	* Expired March 26, 2013
JP3162452	* Expired February 3, 2012
JP3231035	* Expired September 24, 2013

Panasonic Holdings Corporation

JP3231036	* Expired September 24, 2013
JP3233625	* Expired September 24, 2013
JP3233626	* Expired September 24, 2013
JP3233850	* Expired March 13, 2016
JP3248807	* Expired March 25, 2014
JP3327914	* Expired March 25, 2014
JP3327915	* Expired March 25, 2014
JP3327916	* Expired March 25, 2014
JP3359328	* Expired September 24, 2013
JP3366194	* Expired October 1, 2016
JP3382569	* Expired October 14, 2019
JP3387769	* Expired February 21, 2017
JP3408469	* Expired September 14, 2019
JP3410077	* Expired September 24, 2013
JP3410078	* Expired September 24, 2013
JP3410085	* Expired March 25, 2014
JP3431465	* Expired September 11, 2017
JP3431470	* Expired September 1, 2017
JP3439738	* Expired September 24, 2013
JP3439739	* Expired September 24, 2013
JP3447207	* Expired December 5, 2017
JP3464656	* Expired August 10, 2021
JP3482750	* Expired September 28, 2015
JP3489574	* Expired February 26, 2018
JP3511013	* Expired January 22, 2021
JP3523643	* Expired March 27, 2018
JP3526458	* Expired October 19, 2019
JP3529395	* Expired October 23, 2012
JP3534710	* Expired March 13, 2016
JP3563346	* Expired April 16, 2018

Panasonic Holdings Corporation

JP3588460	* Expired March 27, 2012
JP3615685	* Expired April 6, 2020
JP3643835	* Expired March 26, 2013
JP3646110	* Expired May 30, 2017
JP3646113	* Expired September 1, 2017
JP3677018	* Expired May 30, 2017
JP3724070	* Expired August 2, 2016
JP3754999	* Expired December 9, 2017
JP3779311	* Expired February 26, 2018
JP3829141	* Expired March 27, 2012
JP3869839	* Expired March 27, 2012
JP3881679	* Expired March 25, 2014
JP3881680	* Expired September 24, 2013
JP3958249	* Expired December 5, 2017
JP3958250	* Expired December 5, 2017
JP3965207	* Expired February 28, 2023
JP3987526	* Expired March 26, 2013
JP4006357	* Expired December 5, 2017
JP4028641	* Expired September 24, 2018
JP4042745	* Expired July 16, 2023
JP4044077	* Expired March 23, 2019
JP4065014	* Expired December 6, 2015
JP4135252	* Expired March 23, 2019
JP4189017	* Expired December 5, 2017
JP4257090	* Expired September 30, 2022
JP4369990	* Expired July 27, 2020
JP4410307	* Expired July 27, 2020
JP4744625	* Expired July 27, 2020

Panasonic Holdings Corporation / Nippon Hoso Kyokai

JP3083159	* Expired June 30, 2018

Panasonic Holdings Corporation / Nippon Hoso Kyokai

JP4057603	* Expired June 30, 2018
JP4197568	* Expired June 30, 2018
JP4197690	* Expired June 30, 2018

Pioneer Corporation

JP2829159	* Expired September 10, 2011
JP2852295	* Expired May 26, 2017
JP2883866	* Expired April 21, 2017
JP2963895	* Expired July 6, 2018

Sanyo Electric Co., Ltd.

JP3108392	* Expired October 1, 2017
JP3481107	* Expired December 4, 2017

Sharp Corporation

JP2945569	* Expired October 27, 2013
JP2981448	* Expired October 27, 2013
JP3256434	* Expired March 29, 2016
JP3518739	* Expired January 30, 2015
JP3524706	* Expired December 16, 2016
JP3544165	* Expired March 22, 2020
JP3590511	* Expired November 21, 2017
JP3659776	* Expired September 24, 2017
JP3708028	* Expired May 30, 2021
JP3714886	* Expired April 24, 2021
JP3720347	* Expired April 13, 2024
JP3720722	* Expired March 7, 2021
JP3775937	* Expired March 18, 2019
JP3824833	* Expired February 21, 2020
JP3842959	* Expired June 21, 2020
JP4129408	* Expired April 16, 2023

Sharp Corporation

JP4137613	* Expired December 3, 2022

Sony Group Corporation

JP3077467	* Expired October 8, 2013
JP3082820	* Expired November 25, 2013
JP3114339	* Expired March 13, 2012
JP3125787	* Expired December 28, 2015
JP3127920	* Expired December 25, 2015
JP3250333	* Expired August 27, 2013
JP3252706	* Expired May 16, 2016
JP3381164	* Expired August 27, 2013
JP3381165	* Expired August 27, 2013
JP3407712	* Expired May 16, 2016
JP3417406	* Expired January 27, 2012
JP3564698	* Expired March 10, 2015
JP3570402	* Expired August 27, 2013
JP3610973	* Expired May 22, 2015
JP3613865	* Expired December 7, 2015
JP3617115	* Expired March 31, 2015
JP3630441	* Expired October 29, 2013
JP3644455	* Expired September 29, 2014
JP3658919	* Expired April 15, 2017
JP3666093	* Expired December 25, 2015
JP3689895	* Expired July 28, 2015
JP3712063	* Expired March 28, 2015
JP3823492	* Expired November 18, 2017
JP3835655	* Expired June 9, 2018
JP3844527	* Expired May 31, 2015
JP3864514	* Expired September 22, 2017
JP3901179	* Expired October 8, 2012
JP3975473	* Expired March 25, 2018

Sony Group Corporation

JP4046873	* Expired November 16, 2018
JP4081780	* Expired April 30, 2018
JP4135241	* Expired December 18, 2018

Sony Group Corporation / Nippon Hoso Kyokai

JP3940541	* Expired February 25, 2020

Sony Group Corporation / Toshiba Corporation / Nippon Hoso Kyokai

JP2975932	* Expired July 9, 2018

The Trustees of Columbia University in the City of New York

JP4194240	* Expired January 29, 2019
JP4393591	* Expired February 13, 2018

Toshiba Corporation

JP2941398	* Expired September 29, 2010
JP3435277	* Expired January 30, 2016
JP3971346	* Expired June 16, 2023

Toshiba Corporation / TVS REGZA Corporation

JP3474510	* Expired February 29, 2020
JP3602768	* Expired April 12, 2020
JP3824574	* Expired February 29, 2020
JP3824575	* Expired February 29, 2020
JP3917611	* Expired April 12, 2020