## **Dolby International AB**

JP5562408

### INFOCITY, Inc.

JP5247097

JP6310109

## INFOCITY, Inc. / Nippon Hoso Kyokai

JP6789553

## JVCKENWOOD Corporation

JP4620788

JP5070979

## **KDDI CORPORATION**

JP5254162

### LG Electronics Inc.

JP6291081

JP6392792

### Maxell, Ltd.

JP4431598

JP4431599

JP4565049

JP4625757

JP4625764

JP4625870

JP4629789

JP4629790

JP4629791

JP4654309

JP4997362

JP5002370

JP5081512

JP5095018

JP5095026

JP5111542

JP5111543

JP5114600

JP5188634

JP5223027

JP5223028

JP5223029

JP5223030

JP5236112

JP5236113

JP5241945

JP5241946

JP5372383

JP5380614

JP5413534

JP5450875

JP5450876

JP5522644

JP5603475

JP5695150

JP5805835

JP5896436

JP5947411

JP6734742

JP6734743

JP6734755

JP6739315

JP6739316

JP6739674

JP6739675

JP6739676

JP6739677

JP6806944

JP6806945

JP6808879

JP6808880

JP6808881

JP6836685

JP6854947

JP6854948

JP6854949

JP6854950

JP6854951

JP6854952

JP6885707

JP6892239

JP6892240

JP6905631

JP6906925

JP6912632

JP6912633

JP6912634

JP7164754

JP7164755

JP7166485

JP7325680

JP7395692

JP7428850

JP7428851

### MxH Corporation

JP7206449

JP7542271

### **NEC Corporation**

JP4666231

JP5300074

JP5682181

### **NHK Foundation**

JP5113954

JP5113955

### Nippon Hoso Kyokai

JP5156037

JP5156038

JP5156039

JP5156143

JP5156144

JP5175883

JP5269237

JP5269238

JP5269239

JP5269240

JP5269241

## Nippon Hoso Kyokai

JP5544395

JP5548726

JP5584729

JP5584730

JP5586657

JP5586658

JP5586770

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JP5923137

JP6018796

JP6068721

JP6097443

JP6101384

JP6154972

JP6214809

JP6214810

JP6214811

JP6271065

JP6271066

JP6275308

JP6323805

JP6388295

JP6803357

JP6858303

JP7300250

### Orange SA

JP5396600

## Panasonic Holdings Corporation

## **Sharp Corporation**

JP4786739

JP6363745

JP7478316

## Sony Group Corporation

JP4518058

JP4581955

JP4883199

JP4895113

JP5029037

JP5516826

JP5595590

JP5696913

JP5696914

JP5696915

JP5708874

JP5708875

JP5725390

JP5725391

JP5725392

JP5754491

JP5757601

JP5765478

JP5765479

JP5765480

JP5777793

JP5777794

JP5949825

JP6065881

JP6207673

## Sony Group Corporation

JP6269754

JP6269798

JP6323514

JP6327296

JP6338720

JP6350514

JP6369524

JP6465233

JP6471820

JP6604395

JP6607303

JP6614279

## **Toshiba Corporation**

JP4350714

JP4772899

JP4843686

JP5032419

JP5143050

JP5254411

JP5379881

JP5479631

JP5735069

JP5902279

JP5902280

JP5921398

JP6009946

JP6239674

JP6271203

JP6400783

## TVS REGZA Corporation

JP5060251

JP5087022

JP5132808

JP5404864

JP6510089

JP6510090

JP6560658

JP6560659

JP6560660

JP6560661

JP6607843

JP6607844

JP6607845

JP6633507

JP6633804

JP6633805

JP6633806

JP6633807

JP6633808

JP6633809

JP6633810

JP6633811

JP6686219

JP6686220

JP6697492

JP6703176

JP6705844

JP6707479

JP6707704

## TVS REGZA Corporation

JP6732991

JP6732992

JP6734981

JP6734982

JP6734983

JP6734984

JP6779927

JP6780145

JP6780146

JP6786533

JP6786740

JP6786741

JP6794386

JP6794387

JP6794568

JP6794569

JP6812378

JP6812379

JP6812380

JP6812589

JP6812590

JP6812591

JP6812592

JP6812593

JP6812594

JP6812595

JP6829697

JP6829786

JP6829787

## TVS REGZA Corporation

JP6841776

JP6841777

JP6841959

JP6841960

JP6841961

JP6841962

JP6841963

JP6858355

JP6858356

JP6858357

JP6858358

JP6858359

JP6858360

JP6888163

JP6888164

JP6888165

JP6891328

JP6891329

JP6891330

JP6891331

JP6891332

JP6891333

JP6891334

JP6891335

JP6914865

JP6914866

JP6942769

JP6968940

### Fujitsu Limited

JP3918329 \* Expired November 24, 2018

JP4603570 \* Expired March 31, 2023

JP4791521 \* Expired March 31, 2023

JP4791583 \* Expired March 31, 2023

### INFOCITY, Inc.

#### InterDigital CE Patent Holdings, SAS

JP2806587 \* Expired October 20, 2009 JP3169903 \* Expired January 31, 2017 JP3650064 \* Expired January 4, 2015 JP3699129 \* Expired May 22, 2017 JP3880616 \* Expired December 1, 2014 JP3881236 \* Expired January 4, 2015 JP3907706 \* Expired December 15, 2017 JP3960483 \* Expired March 6, 2018 JP3962064 \* Expired January 4, 2015 JP4070831 \* Expired November 20, 2015 JP4174549 \* Expired November 20, 2015 JP4219963 \* Expired November 20, 2015 \* Expired August 21, 2015 JP4251668 JP4302313 \* Expired June 30, 2018 JP4331765 \* Expired March 6, 2018 JP4335936 \* Expired June 28, 2016 JP4347275 \* Expired August 20, 2013 \* Expired August 20, 2013 JP4347276 \* Expired June 28, 2016 JP4360557 \* Expired December 17, 2017 JP4360560 JP4382150 \* Expired December 1, 2014

# InterDigital CE Patent Holdings, SAS

JP4385302	* Expired December 1, 2014
JP4418754	* Expired October 2, 2023
JP4424621	* Expired November 30, 2015
JP4446399	* Expired June 28, 2016
JP4492973	* Expired March 6, 2018
JP4527135	* Expired August 21, 2015
JP4531259	* Expired September 24, 2019
JP4548676	* Expired November 30, 2015
JP4565521	* Expired December 17, 2017
JP4583513	* Expired August 1, 2017
JP4605615	* Expired November 30, 2015
JP4614245	* Expired December 17, 2017
JP4623524	* Expired August 21, 2015
JP4671248	* Expired August 20, 2013
JP4721478	* Expired June 30, 2018
JP4729176	* Expired October 8, 2019
JP4805639	* Expired June 30, 2018
JP5005868	* Expired January 3, 2021
JP5147081	* Expired October 8, 2019
JP5263847	* Expired August 1, 2017
JP5645277	* Expired August 1, 2017
JP5781049	* Expired October 8, 2019

## JVCKENWOOD Corporation

JP2521160	* Expired November 7, 2009
JP2874729	* Expired January 30, 2015
JP3055540	* Expired January 30, 2015
JP3156892	* Expired July 30, 2013
JP3156893	* Expired August 19, 2013
JP3405345	* Expired January 24, 2020
JP3405347	* Expired January 24, 2020

# JVCKENWOOD Corporation

LINVICOD Corporation	
JP3405348	* Expired January 24, 2020
JP3422458	* Expired July 11, 2017
JP3431609	* Expired July 11, 2017
JP3453696	* Expired November 7, 2016
JP3518753	* Expired January 30, 2015
JP3518754	* Expired January 30, 2015
JP3518757	* Expired January 30, 2015
JP3518761	* Expired January 30, 2015
JP3518764	* Expired January 30, 2015
JP3531823	* Expired January 30, 2015
JP3531824	* Expired January 30, 2015
JP3531830	* Expired January 30, 2015
JP3531831	* Expired January 30, 2015
JP3582428	* Expired November 16, 2019
JP3627734	* Expired October 29, 2013
JP3676740	* Expired January 30, 2015
JP3804865	* Expired January 30, 2015
JP3818525	* Expired January 30, 2015
JP3818526	* Expired January 30, 2015
JP3818527	* Expired January 30, 2015
JP3818528	* Expired January 30, 2015
JP3818529	* Expired January 30, 2015
JP3818533	* Expired January 30, 2015
JP3818534	* Expired January 30, 2015
JP3818535	* Expired January 30, 2015
JP3818536	* Expired January 30, 2015
JP3830074	* Expired June 15, 2020
JP4221732	* Expired October 29, 2013
JP4269506	* Expired September 29, 2020
JP4743237	* Expired September 29, 2020

### JVCKENWOOD Corporation

## JVCKENWOOD Corporation / Panasonic Holdings Corporation

#### **KYOCERA Corporation**

JP4753565 \* Expired November 10, 2024

#### LG Electronics Inc.

#### Maxell, Ltd.

JP2760799 \* Expired April 28, 2008 JP2798086 \* Expired April 28, 2008 \* Expired April 28, 2008 JP2798087 JP2870531 \* Expired April 28, 2008 JP2870532 \* Expired April 28, 2008 JP2960803 \* Expired August 28, 2011 JP2980085 \* Expired April 28, 2008 JP2989742 \* Expired May 20, 2014 JP2993487 \* Expired April 28, 2008 JP3008884 \* Expired July 20, 2010 JP3008885 \* Expired July 20, 2010 \* Expired July 20, 2010 JP3011239 \* Expired July 20, 2010 JP3025658 JP3031284 \* Expired July 20, 2010 JP3031285 \* Expired July 20, 2010

JP3119116	* Expired June 7, 2015
JP3139910	* Expired March 31, 2014
JP3149627	* Expired June 7, 2013
JP3178467	* Expired July 20, 2010
JP3217137	* Expired July 28, 2012
JP3275881	* Expired April 28, 2008
JP3275916	* Expired July 20, 2010
JP3275917	* 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
JP3564961	* Expired August 21, 2017
JP3591274	* Expired February 17, 2018
JP3601181	* Expired April 19, 2016
JP3652176	* Expired August 13, 2019
JP3661001	* Expired July 20, 2010
JP3675442	* Expired February 17, 2014
JP3685093	* Expired April 27, 2015
JP3714276	* Expired April 27, 2015
JP3780079	* Expired October 29, 2017
JP3785010	* Expired December 1, 2019
JP3793543	* Expired July 20, 2010
JP3795266	* Expired July 30, 2019
JP3829574	* Expired March 9, 2020

JP3882295	* Expired November 10, 2017
JP3922110	* Expired February 20, 2016
JP3937889	* Expired March 28, 2022
JP3995017	* Expired November 10, 2017
JP4029569	* Expired January 10, 2021
JP4042419	* Expired January 31, 2022
JP4046006	* Expired August 21, 2017
JP4062890	* Expired April 20, 2021
JP4093214	* Expired August 21, 2017
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
JP4300170	* Expired October 15, 2012
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

* Expired February 17, 2014
* Expired January 19, 2019
* Expired December 17, 2016
* Expired March 28, 2022
* Expired September 30, 2024
* Expired September 30, 2024
* Expired December 1, 2019
* Expired October 29, 2017
* Expired October 29, 2017
* Expired December 17, 2016
* Expired December 17, 2016
* Expired February 9, 2021
* Expired January 19, 2019
* Expired January 19, 2019
* Expired December 3, 2023
* Expired June 9, 2020
* Expired February 17, 2018
* Expired December 15, 2020
* Expired June 9, 2020
* Expired October 19, 2021
* Expired July 31, 2017
* Expired July 31, 2017
* Expired January 22, 2021
* Expired February 17, 2018
* Expired April 10, 2021
* Expired January 10, 2023
* Expired January 10, 2023
* Expired June 25, 2018
* Expired October 19, 2021
* Expired February 9, 2021

JP4597266	* Expired October 19, 2021
JP4613212	* Expired October 13, 2024
JP4613256	* Expired January 22, 2021
JP4627790	* Expired January 22, 2021
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
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 \* Expired April 22, 2013 JP5002771 JP5002772 \* Expired April 22, 2013 JP5002773 \* Expired April 22, 2013 \* Expired October 13, 2024 JP5050122 \* Expired October 13, 2024 JP5050129 JP5063629 \* Expired June 4, 2021 \* Expired June 4, 2021 JP5156803 JP5292371 \* Expired October 11, 2022 JP5452685 \* Expired October 11, 2022 JP5478690 \* Expired June 4, 2021

#### Maxell, Ltd. / Nippon Hoso Kyokai

### Maxell, Ltd. / Pioneer Corporation

JP2911861 \* Expired November 26, 2017

### 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 \* Expired March 29, 2016 JP3301055 \* Expired April 7, 2012 JP3316572 JP3316573 \* Expired April 7, 2012

# Mitsubishi Electric Corporation

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
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
JP3501213	* Expired July 13, 2019
JP3531604	* Expired November 24, 2020
JP3832321	* Expired November 20, 2021

## **NEC Corporation**

### Nippon Hoso Kyokai

\* Expired February 6, 2012 JP2883238 JP2904986 \* Expired January 31, 2012 JP3103617 \* Expired June 13, 2011 JP3133958 \* Expired May 19, 2017 \* Expired May 28, 2017 JP3133960 \* Expired September 12, 2016 JP3457482 JP3691211 \* Expired May 30, 2017 JP3795183 \* Expired May 16, 2017

JP3884869 \* Expired September 25, 2018
JP4249249 \* Expired November 13, 2020
JP4249253 \* Expired November 13, 2020
JP4266387 \* Expired November 13, 2020
JP4806444 \* Expired May 24, 2021

#### Orange SA

#### Orange SA / TDF SAS

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

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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
JP3149328	* Expired January 9, 2015
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
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
JP3359327	* Expired March 26, 2013
JP3359328	* Expired September 24, 2013
JP3366194	* Expired October 1, 2016
JP3380138	* Expired May 30, 2017
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

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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
JP3450320	* Expired March 27, 2012
JP3450321	* Expired March 25, 2014
JP3450322	* Expired September 24, 2013
JP3464656	* Expired August 10, 2021
JP3472774	* Expired March 26, 2013
JP3482750	* Expired September 28, 2015
JP3489574	* Expired February 26, 2018
JP3491549	* Expired January 28, 2019
JP3511013	* Expired January 22, 2021
JP3526458	* Expired October 19, 2019
JP3529395	* Expired October 23, 2012
JP3534710	* Expired March 13, 2016
JP3563346	* Expired April 16, 2018
JP3588460	* Expired March 27, 2012
JP3588461	* Expired March 27, 2012
JP3588462	* Expired September 24, 2013
JP3588463	* Expired March 25, 2014
JP3610914	* Expired February 27, 2021
JP3611995	* Expired January 14, 2020
JP3615685	* Expired April 6, 2020
JP3642210	* Expired February 4, 2019
JP3643834	* Expired March 26, 2013
JP3643835	* Expired March 26, 2013
JP3643836	* Expired March 26, 2013
JP3646110	* Expired May 30, 2017

JP3646113	* Expired September 1, 2017
JP3677018	* Expired May 30, 2017
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
JP3918830	* Expired February 4, 2019
JP3958249	* Expired December 5, 2017
JP3958250	* Expired December 5, 2017
JP3965205	* Expired February 28, 2023
JP3965207	* Expired February 28, 2023
JP3965208	* Expired February 28, 2023
JP3987526	* Expired March 26, 2013
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
JP4243256	* Expired May 30, 2017
JP4317844	* Expired December 11, 2018
JP4317845	* Expired December 11, 2018
JP4369990	* Expired July 27, 2020
JP4409743	* Expired October 20, 2020
JP4410307	* Expired July 27, 2020
JP4561822	* Expired July 16, 2023
JP4649533	* Expired March 9, 2021
JP4666110	* Expired July 16, 2023
JP4735264	* Expired January 26, 2025

JP4744625 \* Expired July 27, 2020

### Panasonic Holdings Corporation / Nippon Hoso Kyokai

#### **Pioneer Corporation**

JP3437666 \* Expired February 21, 2015

### Sanyo Electric Co., Ltd.

JP3108392 \* Expired October 1, 2017

JP3475031 \* Expired January 9, 2017

JP3481107 \* Expired December 4, 2017

#### **Sharp Corporation**

JP2945569 \* Expired October 27, 2013 \* Expired October 27, 2013 JP2981448 JP3205713 \* Expired January 10, 2017 JP3256434 \* Expired March 29, 2016 \* Expired April 8, 2018 JP3439653 JP3483703 \* Expired May 29, 2016 JP3499128 \* Expired March 24, 2018 \* Expired February 13, 2018 JP3504487 \* Expired January 30, 2015 JP3518739 JP3522542 \* Expired July 29, 2018 JP3523470 \* Expired November 17, 2017

### **Sharp Corporation**

JP3524706 \* Expired December 16, 2016 JP3544165 \* Expired March 22, 2020 JP3590511 \* Expired November 21, 2017 JP3659776 \* Expired September 24, 2017 JP3698654 \* Expired April 26, 2021 JP3708028 \* Expired May 30, 2021 \* Expired April 24, 2021 JP3714886 \* Expired May 28, 2021 JP3717422 \* Expired April 13, 2024 JP3720347 \* Expired March 7, 2021 JP3720722 \* Expired March 18, 2019 JP3775937 JP3824833 \* Expired February 21, 2020 JP3841617 \* Expired April 13, 2020 \* Expired June 21, 2020 JP3842959 \* Expired April 24, 2022 JP3916499 \* Expired December 3, 2022 JP4137613 JP4165987 \* Expired August 10, 2020

## 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
JP3209421	* Expired November 25, 2013
JP3209422	* Expired November 25, 2013
JP3250333	* Expired August 27, 2013
JP3252706	* Expired May 16, 2016
JP3371367	* Expired November 25, 2013
JP3371368	* Expired November 25, 2013
JP3381164	* Expired August 27, 2013

# Sony Group Corporation

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JP3381165	* Expired August 27, 2013
JP3407712	* Expired May 16, 2016
JP3417406	* Expired January 27, 2012
JP3430792	* Expired October 27, 2015
JP3452236	* Expired March 19, 2017
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
JP3685182	* Expired November 13, 2015
JP3712009	* Expired March 28, 2015
JP3712063	* Expired March 28, 2015
JP3835655	* Expired June 9, 2018
JP3844527	* Expired May 31, 2015
JP3864514	* Expired September 22, 2017
JP3901179	* Expired October 8, 2012
JP3906592	* Expired January 5, 2019
JP3988755	* Expired May 22, 2015
JP4046873	* Expired November 16, 2018
JP4049180	* Expired February 10, 2017
JP4051688	* Expired January 21, 2020
JP4051689	* Expired January 21, 2020
JP4072692	* Expired September 29, 2014
JP4081780	* Expired April 30, 2018
JP4099599	* Expired February 10, 2017
JP4190594	* Expired December 28, 2015

#### Sony Group Corporation

JP4296895 \* Expired December 28, 2015

 JP4314745
 \* Expired April 17, 2020

 JP4543555
 \* Expired April 11, 2020

 JP5071746
 \* Expired June 24, 2024

 JP5071749
 \* Expired June 24, 2024

 JP5187352
 \* Expired June 21, 2024

 JP5339168
 \* Expired June 24, 2024

### 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 JP3139909 \* Expired March 15, 2014 \* Expired March 24, 2015 JP3139936 JP3435277 \* Expired January 30, 2016 JP3490666 \* Expired March 15, 2014 JP3805910 \* Expired October 5, 2018 JP3971346 \* Expired June 16, 2023 JP4346471 \* Expired February 27, 2024

### Toshiba Corporation / TVS REGZA Corporation

JP3239084 \* Expired May 30, 2017

JP3474510 \* Expired February 29, 2020

JP3602768 \* Expired April 12, 2020

### Toshiba Corporation / TVS REGZA Corporation

JP3663149 \* Expired May 21, 2021 \* Expired February 29, 2020 JP3824574 JP3824575 \* Expired February 29, 2020 JP3917611 \* Expired April 12, 2020 JP4127778 \* Expired August 26, 2022 \* Expired August 26, 2022 JP4607941 JP4703631 \* Expired August 26, 2022 \* Expired August 26, 2022 JP4703632

## TVS REGZA Corporation