

**Dolby International AB**

JP5562408

**INFOCITY, Inc.**

JP5247097

JP6310109

JP7125692

**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

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JP4629790

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**Maxell, Ltd.**

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**Maxell, Ltd.**

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**Maxell, Ltd.**

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**Maxell, Ltd.**

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**MxH Corporation**

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**NEC Corporation**

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**NHK Foundation**

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**Nippon Hoso Kyokai**

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**Nippon Hoso Kyokai**

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**Nippon Hoso Kyokai**

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**Orange SA**

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**Panasonic Holdings Corporation**

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**Sharp Corporation**

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**Sony Group Corporation**

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**Sony Group Corporation**

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**Toshiba Corporation**

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**Toshiba Corporation**

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**TVS REGZA Corporation**

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**TVS REGZA Corporation**

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**TVS REGZA Corporation**

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JP6972254

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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
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
JP4173535	* Expired March 15, 2015
JP4174549	* Expired November 20, 2015
JP4219963	* Expired November 20, 2015
JP4251668	* Expired August 21, 2015
JP4302313	* Expired June 30, 2018
JP4331765	* Expired March 6, 2018
JP4335936	* Expired June 28, 2016
JP4347275	* Expired August 20, 2013
JP4347276	* Expired August 20, 2013
JP4360557	* Expired June 28, 2016

**InterDigital CE Patent Holdings, SAS**

JP4360560	* Expired December 17, 2017
JP4382150	* Expired December 1, 2014
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
JP2853727	* Expired February 22, 2014
JP2874729	* Expired January 30, 2015
JP3055540	* Expired January 30, 2015
JP3102416	* Expired February 22, 2014

**JVCKENWOOD Corporation**

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
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

**JVCKENWOOD Corporation**

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 / Nippon Hoso Kyokai**

JP3392028	* Expired November 28, 2017
JP3392122	* Expired November 28, 2017

**JVCKENWOOD Corporation / Panasonic Holdings Corporation**

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

**KYOCERA Corporation**

JP4753565	* Expired November 10, 2024
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**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
JP2960803	* Expired August 28, 2011
JP2980085	* Expired April 28, 2008
JP2989742	* Expired May 20, 2014

**Maxell, Ltd.**

JP2993487	* Expired April 28, 2008
JP3008884	* Expired July 20, 2010
JP3008885	* Expired July 20, 2010
JP3011239	* Expired July 20, 2010
JP3025658	* Expired July 20, 2010
JP3031284	* Expired July 20, 2010
JP3031285	* Expired July 20, 2010
JP3075063	* Expired February 17, 2014
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

**Maxell, Ltd.**

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
JP3979435	* Expired April 19, 2016
JP3983256	* Expired July 20, 2010
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

**Maxell, Ltd.**

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
JP4353307	* Expired February 17, 2014
JP4360382	* Expired January 19, 2019
JP4379428	* Expired December 17, 2016
JP4379528	* Expired March 28, 2022
JP4406669	* Expired September 30, 2024
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
JP4474442	* 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

**Maxell, Ltd.**

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
JP4613256	* Expired January 22, 2021
JP4625757	* Expired December 9, 2025
JP4625764	* Expired December 20, 2025
JP4625870	* Expired December 9, 2025
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
JP4654309	* Expired December 9, 2025
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

**Maxell, Ltd.**

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
JP5002771	* Expired April 22, 2013
JP5002772	* Expired April 22, 2013
JP5002773	* Expired April 22, 2013
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
JP5452685	* 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

**Maxell, Ltd. / Pioneer Corporation**

JP2911861	* Expired November 26, 2017
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**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
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

**Mitsubishi Electric Corporation**

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
JP3270373	* Expired October 24, 2017
JP3332072	* Expired April 9, 2018
JP3501213	* Expired July 13, 2019
JP3531604	* Expired November 24, 2020
JP3832321	* Expired November 20, 2021
JP4045805	* Expired January 11, 2022
JP4051968	* Expired March 7, 2022
JP4066999	* Expired December 28, 2024
JP4200893	* Expired December 19, 2023
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
JP2912323	* Expired January 29, 2018
JP3096020	* Expired December 16, 2017
JP3103617	* Expired June 13, 2011

**Nippon Hoso Kyokai**

JP3133958	* Expired May 19, 2017
JP3133960	* Expired May 28, 2017
JP3253524	* Expired May 28, 2016
JP3352940	* Expired April 16, 2018
JP3457482	* Expired September 12, 2016
JP3504470	* Expired September 18, 2017
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**

JP4391412	* Expired April 30, 2023
JP4673302	* Expired June 2, 2024
JP4864322	* Expired September 5, 2023

**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
JP3149328	* Expired January 9, 2015
JP3153188	* Expired September 14, 2018

**Panasonic Holdings Corporation**

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
JP3361997	* Expired June 25, 2018
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
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

**Panasonic Holdings Corporation**

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
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
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

**Panasonic Holdings Corporation**

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
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
JP4152354	* Expired June 21, 2024
JP4189017	* Expired December 5, 2017
JP4243256	* Expired May 30, 2017
JP4248598	* Expired June 21, 2024
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

**Panasonic Holdings Corporation**

JP4744625	* Expired July 27, 2020
JP4766199	* Expired February 28, 2017

**Panasonic Holdings Corporation / Nippon Hoso Kyokai**

JP3046960	* Expired January 22, 2019
JP3083159	* Expired June 30, 2018
JP4057603	* Expired June 30, 2018
JP4197568	* Expired June 30, 2018
JP4197690	* Expired June 30, 2018

**Pioneer Corporation**

JP2852295	* Expired May 26, 2017
JP2883866	* Expired April 21, 2017
JP2963895	* Expired July 6, 2018
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
JP2981448	* Expired October 27, 2013
JP3205713	* Expired January 10, 2017
JP3256434	* Expired March 29, 2016
JP3439653	* Expired April 8, 2018
JP3483703	* Expired May 29, 2016
JP3499128	* Expired March 24, 2018
JP3504487	* Expired February 13, 2018
JP3518739	* Expired January 30, 2015

**Sharp Corporation**

JP3522542	* Expired July 29, 2018
JP3523470	* Expired November 17, 2017
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
JP3714886	* Expired April 24, 2021
JP3717422	* Expired May 28, 2021
JP3720347	* Expired April 13, 2024
JP3720722	* Expired March 7, 2021
JP3775937	* Expired March 18, 2019
JP3824833	* Expired February 21, 2020
JP3841617	* Expired April 13, 2020
JP3842959	* Expired June 21, 2020
JP3916499	* Expired April 24, 2022
JP4129408	* Expired April 16, 2023
JP4137613	* Expired December 3, 2022
JP4165987	* Expired August 10, 2020
JP4190357	* Expired June 12, 2023

**Sony Group Corporation**

JP3077467	* Expired October 8, 2013
JP3082820	* Expired November 25, 2013
JP3107090	* Expired August 11, 2018
JP3107092	* Expired August 11, 2018
JP3114339	* Expired March 13, 2012
JP3125787	* Expired December 28, 2015
JP3127920	* Expired December 25, 2015
JP3209421	* Expired November 25, 2013

**Sony Group Corporation**

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
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
JP3491401	* Expired August 2, 2015
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
JP3654185	* Expired March 10, 2020
JP3658919	* Expired April 15, 2017
JP3666093	* Expired December 25, 2015
JP3685182	* Expired November 13, 2015
JP3689895	* Expired July 28, 2015
JP3712009	* Expired March 28, 2015
JP3712063	* Expired March 28, 2015
JP3799951	* Expired April 13, 2020
JP3835655	* Expired June 9, 2018
JP3844527	* Expired May 31, 2015
JP3864514	* Expired September 22, 2017

**Sony Group Corporation**

JP3901179	* Expired October 8, 2012
JP3906592	* Expired January 5, 2019
JP3988755	* Expired May 22, 2015
JP4006714	* Expired July 25, 2017
JP4046873	* Expired November 16, 2018
JP4049180	* Expired February 10, 2017
JP4051688	* Expired January 21, 2020
JP4051689	* Expired January 21, 2020
JP4067012	* Expired August 11, 2018
JP4067013	* Expired August 11, 2018
JP4072692	* Expired September 29, 2014
JP4081780	* Expired April 30, 2018
JP4089743	* Expired March 7, 2017
JP4099599	* Expired February 10, 2017
JP4122525	* Expired August 11, 2018
JP4190594	* Expired December 28, 2015
JP4296895	* Expired December 28, 2015
JP4314745	* Expired April 17, 2020
JP4508249	* Expired March 7, 2017
JP4543555	* Expired April 11, 2020
JP4581955	* Expired October 4, 2025
JP5071746	* Expired June 24, 2024
JP5071749	* Expired June 24, 2024
JP5110661	* Expired April 4, 2016
JP5187352	* Expired June 21, 2024
JP5339168	* Expired June 24, 2024

**Sony Group Corporation / Nippon Hoso Kyokai**

JP3940541	* Expired February 25, 2020
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**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

JP3139936 \* Expired March 24, 2015

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

JP3350428 \* Expired December 26, 2017

JP3350515 \* Expired December 26, 2017

JP3474510 \* Expired February 29, 2020

JP3545752 \* Expired December 26, 2017

JP3583769 \* Expired December 26, 2017

JP3602768 \* Expired April 12, 2020

JP3663149 \* Expired May 21, 2021

JP3824574 \* Expired February 29, 2020

JP3824575 \* Expired February 29, 2020

JP3917611 \* Expired April 12, 2020

JP4127778 \* Expired August 26, 2022

JP4607941 \* Expired August 26, 2022

JP4703631 \* Expired August 26, 2022

**Toshiba Corporation / TVS REGZA Corporation**

JP4703632 \* Expired August 26, 2022

**TVS REGZA Corporation**

JP4138575 \* Expired May 22, 2023

JP4542914 \* Expired February 8, 2025

JP5225324 \* Expired February 8, 2025

**Sony Group Corporation**

JP4062317	* Removed as of August 1, 2014
JP4337228	* Removed as of August 1, 2014
JP4352701	* Removed as of August 1, 2014