

Annex A to the DVD-RW Disc Patent License Agreement

Essential Pioneer Patents relevant to DVD-RW Discs

<i>COUNTRY</i>	<i>REFERENCE</i>	<i>FILING NR</i>	<i>FILING DATE</i>	<i>PUBLICATION NR</i>	<i>GRANT NR</i>	<i>EXPIRY DATE</i>	<i>TITLE</i>	
BE-EP	540145EP01	00113391.7	23-jun-2000	1065659	01065659	23-jun-2020	Control data zone	
BR	513047BR01	PI9701610-1	02-apr-1997		PI9701610-1	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
CA	513047CA01	2201454	01-apr-1997		2201454	01-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
CN	504102CN02	200610093817.3	20-jun-2006		ZL200610093817.3	05-dec-2016	Digital data transmitting	
CN	513047CN01	97104993.9	02-apr-1997		ZL97104993.9	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
CN	513047CN02	200510128892.4	30-nov-2005		ZL200510128892.4	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
CN	533164CN01	00108941.2	19-mei-2000	1274924	ZL00108941.2	19-mei-2020	Control data zone	
CN	540145CN01	00122291.0	28-jun-2000	1279468	ZL00122291.0	28-jun-2020	Control data zone	
CN	540693CN01	01111647.1	16-feb-2001		ZL01111647.1	16-feb-2021	Control data zone	
CN	540693CN02	200410101967.5	09-dec-2004	1624779	ZL200410101967.5	16-feb-2021	Control data zone	
DE-EP	503028EP02	01106060.5	12-mrt-2001	1118983	69637764	26-jun-2016	Layout of Land Pre-Pit	
DE-EP	503111EP01	97300118.3	09-jan-1997		69715265	09-jan-2017	Layout of Land Pre-Pit	
DE-EP	504030EP01	95305172.9	25-jul-1995	0694915	69525571.1	25-jul-2015	Multi layer disc	
DE-EP	504102EP02	03025667.1	07-nov-2003	1403869	69636916.8	05-dec-2016	Digital data transmitting	
DE-EP	513047EP01	97105470.5	02-apr-1997	0800165	69737272.3	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
DE-EP	540145EP01	00113391.7	23-jun-2000	1065659	60025664.2	23-jun-2020	Control data zone	
DE-EP	540693EP01	01301307.3	15-feb-2001		60131916.8	15-feb-2021	Control data zone	
EP	513047EP02	06125628.5	07-dec-2006				Layout of Land Pre-Pit	*grant for Pioneer's share
ES-EP	540145EP01	00113391.7	23-jun-2000	1065659	01065659	23-jun-2020	Control data zone	
FR-EP	503028EP02	01106060.5	12-mrt-2001	1118983	01118983	26-jun-2016	Layout of Land Pre-Pit	
FR-EP	503111EP01	97300118.3	09-jan-1997		00784313	09-jan-2017	Layout of Land Pre-Pit	
FR-EP	504030EP01	95305172.9	25-jul-1995	0694915	00694915	25-jul-2015	Multi layer disc	
FR-EP	504102EP02	03025667.1	07-nov-2003	1403869	01403869	05-dec-2016	Digital data transmitting	
FR-EP	513047EP01	97105470.5	02-apr-1997	0800165	00800165	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
FR-EP	540145EP01	00113391.7	23-jun-2000	1065659	01065659	23-jun-2020	Control data zone	
FR-EP	540693EP01	01301307.3	15-feb-2001		01126445	15-feb-2021	Control data zone	
GB-EP	503028EP02	01106060.5	12-mrt-2001	1118983	01118983	26-jun-2016	Layout of Land Pre-Pit	
GB-EP	503111EP01	97300118.3	09-jan-1997		00784313	09-jan-2017	Layout of Land Pre-Pit	
GB-EP	504030EP01	95305172.9	25-jul-1995	0694915	00694915	25-jul-2015	Multi layer disc	
GB-EP	504102EP02	03025667.1	07-nov-2003	1403869	01403869	05-dec-2016	Digital data transmitting	
GB-EP	513047EP01	97105470.5	02-apr-1997	0800165	00800165	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share

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GB-EP	540145EP01	00113391.7	23-jun-2000	1065659	01065659	23-jun-2020	Control data zone	
GB-EP	540693EP01	01301307.3	15-feb-2001		01126445	15-feb-2021	Control data zone	
HK	503028HK01	01109013.3	22-dec-2001	1039204	1039204	26-jun-2016	Layout of Land Pre-Pit	
HK	504102HK02	04106418.7	26-aug-2004		1063685	05-dec-2016	Digital data transmitting	
HK	540145HK01	01101672.2	08-mrt-2001	1030831	1030831	23-jun-2020	Control data zone	
ID	504102ID01	P-963596	05-dec-1996		0005541	05-dec-2016	Digital data transmitting	
ID	513047ID01	P-971080	31-mrt-1997		0012134	31-mrt-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
IN	504102IN01	2183/MAS/1996	04-dec-1996		194873	04-dec-2016	Digital data transmitting	
IN	513047IN01	845/DEL/1997	01-apr-1997		216124	01-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
IN	513047IN02	2457/DEL/2004	10-dec-2004				Layout of Land Pre-Pit	*grant for Pioneer's share
IN	540693IN01	88/CAL/2001	15-feb-2001		206457	15-feb-2021	Control data zone	
IN	540693IN02	54/KOL/2005	31-jan-2005		242435	15-feb-2021	Control data zone	
IT-EP	540145EP01	00113391.7	23-jun-2000	1065659	01065659	23-jun-2020	Control data zone	
JP	503028JP02	2000339670	07-nov-2000	2001167447	03440071	26-jun-2015	Layout of Land Pre-Pit	
JP	503031JP03	2003084394	26-mrt-2003	2003288723	03847266	26-jun-2015	Optimum Power Control	
JP	503111JP01	1996004421	12-jan-1996	1997198657	03917207	12-jan-2016	Layout of Land Pre-Pit	
JP	504030JP01	1995148907	15-jun-1995	1996096406	03558306	15-jun-2015	Multi layer disc	
JP	504102JP01	1995316420	05-dec-1995	1997162857	03394127	05-dec-2015	Digital data transmitting	
JP	504188JP02	2001400061	28-dec-2001	2002237150	04112857	28-feb-2016	Minimum readout rate	
JP	513047JP01	1996171528	01-jul-1996	1997326138	03703569	01-jul-2016	Layout of Land Pre-Pit	*grant for Pioneer's share
JP	513047JP02	2003187486	30-jun-2003	2003338087	03739763	01-jul-2016	Layout of Land Pre-Pit	*grant for Pioneer's share
JP	550081JP01	2000185741	21-jun-2000	2001076349	03543950	21-jun-2020	Control data zone	
JP	540693JP01	2000078102	21-mrt-2000	2001307329	04060022	21-mrt-2020	Control data zone	
KR	504102KR01	62001/96	05-dec-1996	97-56160	00329456	05-dec-2016	Digital data transmitting	
KR	513047KR01	12187/97	02-apr-1997	97-71533	00478863	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
KR	533164KR01	20000027001	19-mei-2000		00467379	19-mei-2020	Control data zone	
KR	540145KR01	20000036099	28-jun-2000		00397912	28-jun-2020	Control data zone	
KR	540693KR01	20010007795	16-feb-2001		00391892	16-feb-2021	Control data zone	
MX	504102MX01	966099	05-dec-1996		195994	05-dec-2016	Digital data transmitting	
MX	513047MX01	972413	02-apr-1997		223525	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
MY	504102MY01	PI9605068	03-dec-1996		MY-112856-A	03-dec-2016	Digital data transmitting	
MY	513047MY01	PI97001419	02-apr-1997		127657	29-dec-2021	Layout of Land Pre-Pit	*grant for Pioneer's share

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NL-EP	504102EP02	03025667.1	07-nov-2003	1403869	01403869	05-dec-2016	Digital data transmitting	
NL-EP	540145EP01	00113391.7	23-jun-2000	1065659	01065659	23-jun-2020	Control data zone	
RU	513047RU01	97105090	01-apr-1997		2219595	01-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
SG	504102SG01	9611511-8	04-dec-1996		79210	04-dec-2016	Digital data transmitting	
SG	513047SG01	9701008-6	29-mrt-1997		47218	29-mrt-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
TH	504102TH01	9601004164	02-dec-1996		9825	02-dec-2016	Digital data transmitting	
TH	513047TH01	036591	31-mrt-1997	30098	33048	31-mrt-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
TW	504102TW01	85114966	04-dec-1996		88955	03-dec-2016	Digital data transmitting	
TW	513047TW01	86103929	01-apr-1997		158436	01-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
TW	513047TW02	90124439	02-okt-2001		199333	01-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
TW	533164TW01	89109739	20-mei-2000		146277	20-mei-2020	Control data zone	
TW	540145TW01	89112425	23-jun-2000		169284	22-jun-2020	Control data zone	
TW	540693TW01	90103531	16-feb-2001		160109	15-feb-2021	Control data zone	
US	484116US01	08/699191	07-nov-1994		05629924	07-nov-2014	Structure of SYNC Codes	
US	503028US02	09/736122	15-dec-2000		06504814	25-jun-2016	Layout of Land Pre-Pit	
US	503031US02	09/846557	27-apr-2001		RE38602	24-jun-2016	Optimum Power Control	
US	503111US01	08/780288	08-jan-1997		05901123	08-jan-2017	Layout of Land Pre-Pit	
US	503111US03	10/178649	24-jun-2002	2002-0154586	06731575	08-jan-2017	Layout of Land Pre-Pit	
US	504030US01	08/504793	20-jul-1995		05608715	20-jul-2015	Multi layer disc	
US	504102US02	10/785864	25-feb-2004		RE40312	03-dec-2016	Digital data transmitting	
US	504188US01	08/806458	26-feb-1997		06236804	26-feb-2017	Minimum readout rate	
US	513047US01	08/825890	02-apr-1997		06075761	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
US	513047US02	09/533700	23-mrt-2000		06282166	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
US	523082US05	10/117184	08-apr-2002	2002-0110060	06487150	20-feb-2018	Recording clock signal	
US	533164US01	09/575530	22-mei-2000		06700843	22-mei-2020	Control data zone	
US	540145US02	10/347225	21-jan-2003	2003-0112736	06785220	21-jun-2020	Control data zone	
US	540693US01	09/784124	16-feb-2001		06594224	16-feb-2021	Control data zone	
US	540693US02	10/409103	09-apr-2003	2003-0223342	06741548	16-feb-2021	Control data zone	
VN	504102VN01	1-1996-90429	04-dec-1996		1-0001518	04-dec-2016	Digital data transmitting	
VN	513047VN01	1-1997-00249	02-apr-1997		1-0002045	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share
VN	513047VN02	1-2001-00456	07-feb-2001		1-0002800	02-apr-2017	Layout of Land Pre-Pit	*grant for Pioneer's share