

Exhibit E1 to the DVD Recordable Media Patent License Agreement

Essential Pioneer Patents relevant to DVD-R Discs

COUNTRY	REFERENCE	FILING NR	FILING DATE	PUBLICATION NR	GRANT NR	EXPIRY DATE	TITLE
AU	570061AU01	2003242424	23-May-2003		2003242424	23-May-2023	Compatibility Version information
CA	570061CA01	2487326	23-May-2003		2487326	23-May-2023	Compatibility Version information
CN	504102CN02	200610093817.3	20-Jun-2006		ZL200610093817.3	05-Dec-2016	Digital data transmitting
CN	533164CN01	00108941.2	19-May-2000	1274924	ZL00108941.2	19-May-2020	Contorol data zone
DE-EP	503028EP02	01106060.5	12-Mar-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	504188EP01	97301337.8	27-Feb-1997		69739836.6	27-Feb-2017	Minimum readout rate
DE-EP	580365EP01	04791953.5	01-Oct-2004		602004024806.1	01-Oct-2024	Structure of Disc Testing Area
DE-EP	580605EP01	05727640.4	29-Mar-2005		602005034416.0	29-Mar-2025	Pre-recorded Middle area
DE-EP	580606EP01	05727366.6	29-Mar-2005		602005031096	29-Mar-2025	Pre-recorded Lead-out area
DE-EP	590412EP01	05767066.3	01-Aug-2005		602005017911.9	01-Aug-2025	Pre-recorded information code
DE-EP	590412EP02	07102247.9	13-Feb-2007		602005017288.2	01-Aug-2025	Pre-recorded information code
DE-EP	590502EP01	05783200.8	14-Sep-2005		01796091	14-Sep-2025	Layer Jump interval
DE-EP	590588EP01	05793673.4	12-Oct-2005		602005026961.4	12-Oct-2025	Layer Jump Recording
DE-EP	590916EP01	06711651.7	13-Jan-2006		602006028027.0	13-Jan-2026	Clearance to keep the Recording order
FR-EP	503028EP02	01106060.5	12-Mar-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	504188EP01	97301337.8	27-Feb-1997		00793233	27-Feb-2017	Minimum readout rate
FR-EP	580365EP01	04791953.5	01-Oct-2004		01672621	01-Oct-2024	Structure of Disc Testing Area
FR-EP	580605EP01	05727640.4	29-Mar-2005		01732070	29-Mar-2025	Pre-recorded Middle area
FR-EP	580606EP01	05727366.6	29-Mar-2005		01732069	29-Mar-2025	Pre-recorded Lead-out area
FR-EP	590412EP01	05767066.3	01-Aug-2005		01783770	01-Aug-2025	Pre-recorded information code

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FR-EP	590412EP02	07102247.9	13-Feb-2007		01783773	01-Aug-2025	Pre-recorded information code
FR-EP	590502EP01	05783200.8	14-Sep-2005		01796091	14-Sep-2025	Layer Jump interval
FR-EP	590588EP01	05793673.4	12-Oct-2005		01801795	12-Oct-2025	Layer Jump Recording
FR-EP	590916EP01	06711651.7	13-Jan-2006		01837872	13-Jan-2026	Clearance to keep the Recording order
GB-EP	503028EP02	01106060.5	12-Mar-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	504188EP01	97301337.8	27-Feb-1997		00793233	27-Feb-2017	Minimum readout rate
GB-EP	580365EP01	04791953.5	01-Oct-2004		01672621	01-Oct-2024	Structure of Disc Testing Area
GB-EP	580605EP01	05727640.4	29-Mar-2005		01732070	29-Mar-2025	Pre-recorded Middle area
GB-EP	580606EP01	05727366.6	29-Mar-2005		01732069	29-Mar-2025	Pre-recorded Lead-out area
GB-EP	590412EP01	05767066.3	01-Aug-2005		01783770	01-Aug-2025	Pre-recorded information code
GB-EP	590412EP02	07102247.9	13-Feb-2007		01783773	01-Aug-2025	Pre-recorded information code
GB-EP	590502EP01	05783200.8	14-Sep-2005		01796091	14-Sep-2025	Layer Jump interval
GB-EP	590588EP01	05793673.4	12-Oct-2005		01801795	12-Oct-2025	Layer Jump Recording
GB-EP	590916EP01	06711651.7	13-Jan-2006		01837872	13-Jan-2026	Clearance to keep the Recording order
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	580365HK01	06111530.8	19-Oct-2006		1090741	01-Oct-2024	Structure of Disc Testing Area
ID	504102ID01	P-963596	05-Dec-1996		0005541	05-Dec-2016	Digital data transmitting
IN	504102IN01	2183/MAS/1996	04-Dec-1996		194873	04-Dec-2016	Digital data transmitting
JP	503028JP02	2000339670	07-Nov-2000	2001167447	03440071	26-Jun-2015	Layout of Land Pre-Pit
JP	503031JP03	2003084394	26-Mar-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

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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	580365JP02	2005514463	01-Oct-2004		04395477	01-Oct-2024	Structure of Disc Testing Area
JP	580605JP02	2006511580	29-Mar-2005		04398458	29-Mar-2025	Pre-recorded Middle area
JP	581253JP02	2006513874	23-May-2005		04603535	23-May-2025	Physical sector layout
JP	590412JP02	2006531464	01-Aug-2005		04375677	01-Aug-2025	Pre-recorded information code
JP	590501JP02	2006535168	14-Sep-2005		04507205	14-Sep-2025	Anchor Point
JP	590502JP02	2006535169	14-Sep-2005		04488316	14-Sep-2025	Layer Jump interval
JP	590588JP02	2006540946	12-Oct-2005		04411640	12-Oct-2025	Layer Jump Recording
JP	590916JP02	2006552978	13-Jan-2006		04627762	13-Jan-2026	Clearance to keep the Recording order
KR	504102KR01	62001/96	05-Dec-1996	97-56160	00329456	05-Dec-2016	Digital data transmitting
KR	533164KR01	20000027001	19-May-2000		00467379	19-May-2020	Contorol data zone
KR	570061KR01	20047019399	23-May-2003	2005-0019725	01169979	23-May-2023	Compatibility Version information
KR	580364KR01	20067008524	29-Sep-2004		00703148	29-Sep-2024	Recording power shift
KR	580365KR01	20067008640	01-Oct-2004		00750979	01-Oct-2024	Structure of Disc Testing Area
KR	580365KR02	20067008817	04-May-2006		00717706	01-Oct-2024	Structure of Disc Testing Area
KR	580404KR01	20067008523	29-Sep-2004		00769534	29-Sep-2024	Write Strategy code
KR	580556KR01	20077005817	07-Sep-2005		00869270	07-Sep-2025	Structure of Disc Testing Area
KR	580605KR01	20067022551	29-Mar-2005		00832412	29-Mar-2025	Pre-recorded Middle area
KR	580606KR01	20067022597	29-Mar-2005		00832413	29-Mar-2025	Pre-recorded Lead-out area
KR	590278KR01	20067010447	30-Jun-2005		00755422	30-Jun-2025	Structure of Disc Testing Area
KR	590412KR01	20077005112	01-Aug-2005		00872473	01-Aug-2025	Pre-recorded information code
KR	590412KR02	20077005211	05-Mar-2007		00874489	01-Aug-2025	Pre-recorded information code
KR	590501KR01	20067014220	14-Sep-2005		00769626	14-Sep-2025	Anchor Point
KR	590502KR01	20077008128	14-Sep-2005		00871334	14-Sep-2025	Layer Jump interval
KR	590588KR01	20077010798	12-Oct-2005		01084501	12-Oct-2025	Layer Jump Recording

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KR	590916KR01	20067027246	13-Jan-2006		00836701	13-Jan-2026	Clearance to keep the Recording order
KR	590920KR01	20077018154	13-Jan-2006		01096552	13-Jan-2026	Allocation of Lead-out area with NBCA
MX	504102MX01	966099	05-Dec-1996		195994	05-Dec-2016	Digital data transmitting
MX	570061MX01	PA/a/2004/011864	23-May-2003		257628	23-May-2023	Compatibility Version information
MY	504102MY01	PI9605068	03-Dec-1996		MY-112856-A	03-Dec-2016	Digital data transmitting
MY	570061MY01	PI20031968	28-May-2003		MY-138596-A	28-May-2023	Compatibility Version information
NL-EP	504102EP02	03025667.1	07-Nov-2003	1403869	01403869	05-Dec-2016	Digital data transmitting
RU	570061RU01	2004138596	23-May-2003	2004138596	2308101	23-May-2023	Compatibility Version information
SG	504102SG01	9611511-8	04-Dec-1996		79210	04-Dec-2016	Digital data transmitting
SG	570061SG01	200406798-9	23-May-2003		108036	23-May-2023	Compatibility Version information
TH	504102TH01	9601004164	02-Dec-1996		9825	02-Dec-2016	Digital data transmitting
TW	504102TW01	85114966	04-Dec-1996		88955	03-Dec-2016	Digital data transmitting
TW	533164TW01	89109739	20-May-2000		146277	20-May-2020	Contorol data zone
TW	570061TW01	92114545	29-May-2003		334136	28-May-2023	Compatibility Version information
TW	580605TW01	94109736	29-Mar-2005		359413	28-Mar-2025	Pre-recorded Middle area
TW	580606TW01	94109535	28-Mar-2005		355654	27-Mar-2025	Pre-recorded Lead-out area
TW	581253TW01	94117426	27-May-2005		364756	26-May-2025	Physical sector layout
TW	590274TW01	94122534	04-Jul-2005		354276	03-Jul-2025	Pre-pit data block configuration
TW	590412TW01	94126334	03-Aug-2005		358060	02-Aug-2025	Pre-recorded information code
TW	590501TW01	94132038	16-Sep-2005		328220	15-Sep-2025	Anchor Point
TW	590502TW01	94132041	16-Sep-2005		354283	15-Sep-2025	Layer Jump interval
TW	590588TW01	94135459	12-Oct-2005		355658	11-Oct-2025	Layer Jump Recording
TW	590916TW01	95101337	13-Jan-2006		350538	12-Jan-2026	Clearance to keep the Recording order
TW	590920TW01	95100842	10-Jan-2006		345778	09-Jan-2026	Allocation of Lead-out area with NBCA
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

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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	523082US05	10/117184	08-Apr-2002	2002-0110060	06487150	20-Feb-2018	Recording clock signal
US	533164US01	09/575530	22-May-2000		06700843	22-May-2020	Contorol data zone
US	570061US01	10/446776	29-May-2003		07301873	29-Jun-2024	Compatibility Version information
US	580364US01	10/573762	29-Sep-2004		07636282	29-Jan-2027	Recording power shift
US	580365US02	11/395174	03-Apr-2006		07721097	16-Sep-2027	Structure of Disc Testing Area
US	580605US01	10/594499	29-Mar-2005		07933192	13-Feb-2027	Pre-recorded Middle area
US	580606US01	10/594502	29-Mar-2005		07539104	04-Apr-2026	Pre-recorded Lead-out area
US	590274US01	11/631425	30-Jun-2005		07929404	13-Aug-2028	Pre-pit data block configuration
US	590412US01	11/659081	01-Aug-2005		07768899	22-Nov-2027	Pre-recorded information code
US	590502US01	11/662939	14-Sep-2005		07515519	12-Jan-2026	Layer Jump interval
US	590588US01	11/665067	12-Oct-2005		07948843	10-Jul-2028	Layer Jump Recording
US	590916US01	11/597899	13-Jan-2006		07697390	29-Sep-2027	Clearance to keep the Recording order
VN	504102VN01	1-1996-90429	04-Dec-1996		1-0001518	04-Dec-2016	Digital data transmitting