

Summary report of Essential Recording Patents for DVD Recorder and Recordable Disc Drive (Japan)

Hitachi, Ltd.

Essential DVD Recorder Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
1,920,117	1	DVD-RAM Part 1, 5.2.11.9
1,933,525	1	DVD-RAM Part 1, 2.8.1.3.3, 2.8.1.3.4
2,538,865	1	DVD-RAM Part 1. 2.8.1.3.1 Annex F
2,559,362	1	DVD-RAM Part 1, 2.8.1.3.1, 2.8.1.3.2 Annex F (Ver 1)
2,592,086	1	DVD-RAM Commercially Essential
2,650,940	1, 3	DVD-RAM Part 1, 2.8.1.3.3, 2.8.1.3.4
2,661,518	1	DVD-RAM Commercially Essential
2,677,325	1	DVD-RAM PH2-40, OHX-9, 10 Table F-1
2,702,923	1	DVD-RAM Part1, 2.8.1.3.2 Annex F

2,702,984	1	DVD-RAM PH5-5, 14 5.2.1.1 5.2.11
2,738,304	1	DVD-RAM Part 1, 2.7.1.3, 2.8.1.2.3 Annex E (Ver. 1.0)
2,810,035	1	DVD-RAM Part 1, 5.2.2
2,823,152	1	DVD-RAM Part1, 2.8.1.3.2 Annex F
2,830,792	1	DVD-VR Part 3 3.5.1.2.1 Table 5.3.1-2 5.4
2,856,391	1	DVD-RAM Part 1, 5.2.1.1, 5.2.8, 5.2.9
2,875,365	1	DVD-RAM PH1-11 1.5 Annex V
2,908,012	1	DVD-RAM Part 1, 2.8.1.3.1 Annex F
2,914,975	1	DVD-Video Recording VR5-34 Table 5.5.1.2-1
2,916,121	1	DVD-RAM Part 1, 5.2.1.1
2,941,703	1	DVD-RAM Part1, 2.8.1.3.2 Annex F

3,031,274	1	DVD-RAM Part 1. 2.8.1.3.2 Annex F
3,031,513	2	DVD-RAM Part 1. 5.2.1.1, 5.2.11.1
3,034,268	12	DVD-RAM Part 1, 5.1.3, Table. 5.4-1
3,036,240	1	DVD-RW Annex K, L
3,060,911	6	DVD-Video Recording Commercially Essential
3,134,869	1	DVD-RAM PH2-40 2.8.1.3 PHX-F1 Fig. F-1 DVD-RW PH2-34 2.2.6.5 PHX-K1, 2
3,134,869	1	DVD-RW 2.2.3.8.1 Annex K
3,134,873	1	DVD-RAM PH2-40 2.8.1.3.1 PHX-F1
3,134,873	1	DVD-RW 2.2.3.8.1 Annex K
3,139,497	1	DVD-Video Recording Part 3 4.3.3.3 4.3.3.3.2
3,162,234	2	DVD-RAM Fig.5.2.1.1-2
3,191,376	1	DVD-RAM/-RW/-R PH-51-53, 61
3,204,533	5	DVD-RAM/-RW/-R PH5-5, 6, 9, 15, 17
3,223,881	1	DVD-RAM/-RW/-R PH5-24, 27, 28, 31

3,231,506	3	DVD-R PH-97 Fig.4.2.1-1 Fig.4.2.201 DVD-RW PH4-3 Fig.4.2.1-1
3,242,643	4	DVD-RAM/-RW PH5-20, 22
3,251,553	1	DVD-RAM PH-5, 6, 13, 25 5.2.1.1 Fig5.2.1.1-1 5.2.9
3,296,246	10	DVD-RAM PH2-45 Technical Information P.124, 125
3,323,782	1	DVD-RAM PH2-40 2.8.1.3.1 PHX-F1
3,330,124	1	DVD-RAM PH5-6, 13, 25 Fig.5.2.1.1-1 5.2.9
3,345,932	1	DVD-RAM Technical Information page 77, 124-125
3,356,991	5	DVD-Video Recording VR4-43, 45 4.3.3.3 4.3.3.3.2
3,377,755	1	DVD-RAM Commercially Essential
3,381,628	1	DVD-ROM/-RAM/-RW/-R PH-50, 51 Fig.3.2.1-1 Fig.3.2.4-1
3,381,837	1	DVD-RAM Fig. 5.2.1.1-1
3,384,325	1	DVD-ROM/-RAM/-RW/-R PH-40, 47, 49

2, 546,100	1	DVD-RAM Part 1, 2.8.1.3.1
2, 719, 130	1	DVD-RAM Part1, 2.8.1.3.2 Annex F
3,092,523	1	DVD-RAM Part 1, 2.8.1.3.1 Annex F
3,107,247	1, 10	DVD-RAM Part 1, 5.2.11.9, 5.3.3.1
3,107,297	8	DVD-RAM Part 1, 5.2.1.1
3,164,111	1	DVD-Video Recording Part 3 4.3.3.3 4.3.3.3.2

Panasonic Corporation
Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
1,866,743	1	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1
1,910,415	1	DVD-RAM Part 1, 5.2.11.9 Fig.5.2.11.9-1 5.3
1,956,987	3	DVD-RAM Part 1, 5.2.1.1 5.2.1.2 5.2.11.2
1,982,083	4	DVD-Video Recording VR5-79 5.5
2,134,290	1	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1 5.2.2 5.2.8
2,559,009	1	DVD-Video Recording Part 3 1. 1 Commercially Essential
2,559,009	1	DVD-Video Recording Part 3 1. 1 Commercially Essential
2,600,373	1.3	DVD-RAM Part 1, 5.2.1.1-1 5.2.13
2,633,817	8	DVD-RAM Part 1, Fig.5.2.1.1-2 5.1.5

2,650,357	1	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1 Annex P
2,679,596	1	DVD-RAM Part 1, 2.8.1.3 2.8.1.3.3
2,707,774	1	DVD-RAM Part 1, 2.8.1.3 2.8.1.3.1 Appendix F
2,715,674	2	DVD-RAM Part 1, 5.2.10 5.3
2,720,876	1	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1
2,720,878	1	Part 1, 5.2.1.1 Fig.5.2.1.1-1 5.2.8, 5.2.9 Annex P
2,773,606	1	DVD-RAM Part 1, Table 5.7.1.5.1-1 BP503-510
2,887,949	1	DVD-RAM Part 1, Annex R Fig. R 1-1
2,924,758	1	DVD-RAM Part 1, 2.8.1.3 Appendix F

3,023,310	1	DVD-RAM Part 1, 5.2.1.1 5.7.1.5.1 Table 5.7.1.5.1-1 (BP0)
3,024,119	1	DVD-RAM Part 1, Table 5.7.1.5.1-1 BP503- 510
3,024,120	7	DVD-RAM Part 1, Table 5.7.1.5.1-1 BP503, 507
3,025,472	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-2
3,025,498	1	DVD-RAM Part 1, 5.2.1.1 5.7.1.5.1 Table 5.7.1.5.1-1 (BP0)
3,026,808	2, 6	DVD-Video Recording Part 3 4.2.3.3.4 Fig. 4.2.3.3.4-2
3,026,809	2, 4	DVD-Video Recording Part 3 4.2.3.3.4 4.8 4.8.4.1
3,026,810	2, 4	DVD-Video Recording Part 3 4.2.3.3.4 Fig. 4.2.3.3.4-2
3,028,517	3, 7	DVD-Video Recording Part 3 4.2.3.3.4 Fig. 4.2.3.3.4-2

3,029,835	7	DVD-RAM Part 1, 5.5.5 Table 5.5.4-1 Annex R R 3.1
3,029,836	7	DVD-RAM Part 1, Table 5.4-1 Table 5.5.4-1 Annex R Part 2 2.1, 2.3.2.4
3,029,837	7	DVD-RAM Part 1, Table 5.4-1 5.6.2
3,031,241	9	DVD-RAM Part 1. 3.4.9
3,031,379	3	DVD-RAM Part 1, Fig.5.2.1.1-1 5.2.8 5.2.9 5.2.13 5.2.15
3,031,380	3	DVD-RAM Part 1, Fig.5.2.1.1-1 5.2.8 5.2.9 5.2.13 5.2.15
3,031,381	2	DVD-RAM Part 1, Fig.5.2.1.1-1 5.2.14
3,031,382	2	DVD-RAM Part 1, Fig.5.2.1.1-1 5.2.2 5.2.9 5.2.13

3,035,869	3	DVD-RAM Part 1, 5.5.5 Table 5.5.5-1 5.6.5 Table 5.6.5-1
3,036,638	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-1 Table 5.7.1.5.1-1 (BP0)
3,036,639	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-1 Table 5.7.1.5.1-1 (BP0)
3,036,640	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-1 5.2.2 5.2.9
3,036,641	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-1 5.2.13
3,039,545	1	DVD-RAM Part 1 3.4.9
3,039,546	5	DVD-RAM Part 1. 3.4.9
3,039,547	7	DVD-RAM Part 1 3.4.9 3.4.16
3,039,548	8	DVD-RAM Part 1 3.4.16 3.4.9

3,039,549	4	DVD-RAM Part 1 Fig.3.1-2 3.4.9 3.4.16
3,040,779	3	DVD-RAM Part 1, 5.5.3 5.6.3
3,042,780	9	DVD-RAM Part 1, Annex V 5.7.1.5.1 (BP16)
3,050,311	5, 9	DVD-Video Recording Part 3 3.4 3.4.1.1 3.4.1.5
3,050,311	5, 9	DVD-Video Recording Part 3 3.4 3.4.1.1 3.4.1.5
3,050,317	5, 9	DVD-Video Recording Part 3 3.4 3.4.1.1 3.4.1.5 4.2.2 Table 4.1.2.2-1
3,050,318	1	DVD-Video Recording Part 3 3.4 3.4.1.1 3.4.1.5
3,050,319	1, 5	DVD-Video Recording Part 3 3.4 3.4.1.1 3.4.1.5

3,059,026	4	DVD-RAM Part 1, 5.2.1.1 5.2.4
3,059,172	5	DVD-RAM Part 1, 5.2.1.1 5.2.4
3,061,799	1	DVD-RAM Part 1, 5.6.2 Fig.5.6.2-1
3,061,800	1	DVD-RAM Part 1, 5.6.2 Fig.5.6.2-1 Annex K
3,063,765	4	DVD-RAM Part 1, Fig.5.2.1.1-1 5.2.2 5.2.9
3,068,093	4	DVD-RAM Part 1, 5.2.1.1 5.2.1.2 5.2.11.2
3,068,095	15	DVD-RAM Part 1, 5.5.5 Table 5.5.4-1 Annex R R 3.1
3,068,096	9	DVD-RAM Part 1, 5.5.5 Table 5.5.4-1 Annex R R 3.1
3,068,102	7	DVD-RAM Part 1, Table 5.4-1 Table 5.5.4-1 Table 5.6.4-1

3,068,103	9	DVD-RAM Part 1, Table 5.4-1 5.5.5 5.6.2
3,069,324	1	DVD-Video Recording Commercially Essential
3,069,324	1	DVD-VR Commercially Essential
3,069,338	6	DVD-Video Recording Part 3 5.1 5.2.1 5.3.3 5.5.2.1 Table 5.5.2.1-2
3,069,722	2	DVD-RAM Part 1, Fig.5.2.1.1-1 5.2.8 5.2.9
3,069,737	2	DVD-RAM Part 1, Fig.5.2.1.1-1 5.2.2 5.2.9
3,073,204	3	DVD-RAM Part 1, Fig.2.7.1.3-4 2.7.3.3 Fig.5.2.1.1-2
3,073,205	3	DVD-RAM Part 1, Fig.2.7.1.3-4 2.7.3.3 Fig.5.2.1.1-1 5.2.1.1-2
3,075,477	9	DVD-RAM Part 1, 5.5.1, 5.5.3, 5.6.3, 5.6.5

3,075,478	1	DVD-RAM Part 1, 5.5.3 Table 5.6.5-1 5.6.8
3,076,033	9	DVD-RAM Part 1, 2.8.1.3.1 2.8.1.3.3 Table 5.7.1.5.1-1
3,076,036	9	DVD-RAM Part 1, 2.8.1.3.1 2.8.1.3.3 Table 5.7.1.5.1-1
3,076,037	13	DVD-RAM Part 1, 2.8.1.3.1 2.8.1.3.3 Table 5.7.1.5.1-1
3,076,038	14	DVD-RAM Part 1, 2.8.1.3.1 2.8.1.3.3 Table 5.7.1.5.1-1
3,089,599	6	DVD-RAM Part 1, Annex V V2, V4
3,089,601	1	DVD-RAM Part 1, Annex V 5.7.1.1
3,089,637	1	DVD-Video Recording VRX-G3
3,090,316	3	DVD-RAM Part 1, Table 5.4.1 5.6.1 Table 5.6.5-1

3,090,317	1	DVD-RAM Part 1, Table 5.4.1 5.6.1 Table 5.6.5-1
3,090,318	3	DVD-RAM Part 1, Table 5.4-1 5.6.1 Table 5.6.5-1
3,090,319	3	DVD-RAM Part 1, Table 5.4-1 5.6.1 Table 5.6.5-
3,090,320	3	DVD-RAM Part 1, Table 5.4-1 5.6.1 Table 5.6.5-1
3,090,321	5	DVD-RAM Part 1, Table 5.4-1 5.6.1 Table 5.6.5-1
3,090,322	3	DVD-RAM Part 1, Table 5.4-1 5.6.1 Table 5.6.5-1
3,090,650	1	DVD-Video Recording Part 3 Annex I I 1 I 3
3,090,660	3	DVD-RAM Part 1, Table 5.4-1 5.6.1 Table 5.6.5-1

3,090,661	2	DVD-RAM Part 1 Fig.5.2.1.1-1 5.2.1.1-2 5.2.2 5.2.4
3,090,662	2	DVD-RAM Part 1 Fig.5.2.1.1-1 5.2.1.1-2 5.2.4
3,094,027	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-1 5.2.8 5.2.9
3,097,849	6	DVD-RAM Part 1 5.7.1.5.1 (BP 32)
3,097,850	7	DVD-RAM Part 1 3.1.2 5.7.1.5.1 (BP 32)
3,097,851	7	DVD-RAM Part 1 3.1.2 3.4.9 5.7.1.5.1
3,097,917	4	DVD-RAM Part 1, Annex V 5.7.1.5 5.7.1.5.1
3,097,918	2	DVD-RAM Part 2, Table 3.6.3-1 3.6.3-2 Table 3.10.2-1 3.10.2-2

3,098,237	8	DVD-RW Part 2 2.8 3.6.1 Table 3.6.1-1 3.6.2 3.6.3 Table 3.6.3-1 3.6.3-2 3.10.2 Table 3.10.2-1 3.10.2-2
3,100,961	13	DVD-RAM 2.8.1.3.3 2.8.1.3.4 2.8.2 Table 5.7.1.5.1-1
3,103,544	2	DVD-RAM 5.7.1.11.3
3,103,545	2	DVD-RAM 5.7.1.11.3
3,103,546	2	DVD-RAM 5.7.1.11.3
3,108,070	1	DVD-Video Recording Commercially Essential
3,108,071	1	DVD-Video Recording Commercially Essential
3,108,072	1	DVD-Video Recording Commercially Essential
3,108,074	1	DVD-Video Recording Part 3 5.3.3 Annex I
3,108,075	1, 11	DVD-Video Recording Part 3 5.3.3 Annex I
3,109,668	1	DVD-Video Recording Part 3 Annex I

3,119,655	12	DVD-Video Recording Part 3 3.3 Fig. 3.3-1 4.2 Fig. 4.2-1 4.2.2 Table 4.2.2-1 Annex I
3,119,656	12	DVD-Video Recording Part 3 3.3 Fig. 3.3-1 4.2.2 Fig. 4.2.2-1
3,128,220	8	DVD-Video Recording Part 3 3.4.1.2 Figure 3.4.1.2-2 Figure 3.4.1.2-3 4.8.4.1 4.8.4.2
3,130,522	1	DVD-Video Recording Part 3 Annex I
3,137,624	2	DVD-Video Recording Part 3 3.3 Fig. 3.3-1 4.2 Fig. 4.2-1 4.2.2 Table 4.2.2-1 Annex I
3,137,626	1	DVD-Video Recording Part 3 4.2.3 Table 4.2.3.3.1-1
3,143,454	4	DVD-R Part 1 3.4.1 Annex W

3,143,454	4	DVD-RW Part 1 3.4.1 Annex X
3,143,455	4	DVD-R Part 1 3.4.1 Annex W
3,143,455	4	DVD-RW Part 1 3.4.1 Annex X
3,152,651	13	DVD-Video Recording Part 3 3.4.1.1 3.4.1.4 Table 4.8.4.1.1-1, 2
3,154,703	6	DVD-Video Recording Part 3 Figure 3.2-1 3.4.1.2 3.4.1.5
3,159,692	5	DVD-VR Part 3 4.1.2 4.1.2.2 (RBP1) 4.5 4.5.3
3,170,502	5	DVD-R FS2-3 Fig.4.1.4-1 FS3-1, 7
3,170,503	4	DVD-R FS2-3 Fig.4.1.4-1 FS3-1, 7
3,170,504	9	DVD-R PHX-P2, 4.5.7 Fig. P.1-2 PH3-29, 40 Table 3.4.1.2.2-1 Table 3.4.1.8-1

3,171,584	22	DVD-RAM FS3-44 3.8.2 FSX-C1
3,171,585	13	DVD-R FS3-44 3.8.2 FSX-C1
3,171,586	15	DVD-R FS3-44 3.8.2 FSX-C1
3,183,874	5	DVD-R PHX-P2, 4.5.7 Fig. P.1-2 PH3-29, 40 Table 3.4.1.2.2-1 Table 3.4.1.8-1
3,199,250	3	DVD-RAM PH5-94 Fig.5.7.1.11-1 PH5-95 5.7.1.11.3 Fig.5.7.1.11.3-1
3,199,711	2	DVD-Video Recording VR4-17, 18, 24
3,223,907	1	DVD-RAM 2.8.1.3 Annex F
3,242,639	2	DVD-Video Recording VR4-15~18
3,267,275	2	DVD-RAM 5.1.1 5.2.1.1
3,284,252	2	DVD-RAM 2.8.1.3.3 Table 2.8.1.3.3-1
3,285,337	1	DVD-RAM PH5-94 Fig.5.7.1.11-1 PH5-95 5.7.1.11.3 Fig.5.7.1.11.3-1

3,285,338	1	DVD-RAM PH5-94 Fig.5.7.1.11-1 PH5-95 5.7.1.11.3 Fig.5.7.1.11.3-1
3,321,143	5	DVD-RAM 5.2.11 5.6.2 5.6.6 Annex K
3,321,144	1	DVD-RAM 5.2.11 5.6.2 Fig.5.6.2-1 5.6.3 Fig.5.6.3-1 5.6.6
3,360,627	1	DVD-RAM PH5-15, 20 Fig.5.2.11-1 Fig.5.2.11.7-1
3,360,629	1	DVD-RAM PH5-15, 20 5.2.11.2 Fig.5.2.11.1-1 Fig.5.2.11.7-1
3,360,630	2	DVD-RAM PH5-15, 20 Fig.5.2.11.1-1 Fig.5.2.11.7-1
3,360,631	1	DVD-RAM PH5-15, 20 Fig.5.2.11.1-1 Fig.5.2.11.7-1
3,360,681	1	DVD-RAM PH5-15, 20 Fig.5.2.11.1-1 Fig.5.2.11.7-1
3,370,660	1	DVD-R Fig.5.1-1 Fig.5.4.1-1 Table 4.5.4-1

3,384,562	1	DVD-R/-RW VI14-133 4,5 Table 4.5-1
3,150,136	3	DVD-Video Recording Part 3 4.1.2 4.1.2.2 (RBP8-135) 4.5 4.5.3
3,150,136	3	DVD-Video Recording Part 3 4.1.2 4.1.2.2 (RBP8-135) 4.5 4.5.3
3,152,653	12	DVD-Video Recording Part 3 3.4.1.1 3.4.1.4 4.2.3.3.1 Table 4.2.3.3.1-1 4.3.3.3.1 Table 4.3.3.3.1-1
3,152,653	12	DVD-Video Recording Part 3 3.4.1.1 3.4.1.4 4.2.3.3.1 Table 4.2.3.3.1-1 4.3.3.3.1 Table 4.3.3.3.1-1
3,152,654	15	DVD-Video Recording Part 3 3.4 3.4.1.1 3.4.1.4
3,152,654	15	DVD-Video Recording Part 3 3.4 3.4.1.1 3.4.1.4

3,162,044	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,045	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,046	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,047	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,048	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,049	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,050	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1

3,162,051	4	DVD-Video Recording Part 3 4.2.2 Table 4.2.2-1 5.2.1 Table 5.2.1-1
3,162,052	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 Figure 5.2.1-1 5.3.1 5.5.4.2 Table 5.5.4.2-3 Part 2 2.6.7 Table 2.6.7-1
3,162,053	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,053	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,162,054	2	DVD-Video Recording Part 3 5.2.1 Table 5.2.1-1 5.5.4.2 Table 5.5.4.2-1
3,167,289	1	DVD-R Part 1 3.2 3.2.1 3.2.6

3,167,289	1	DVD-RW Part 1 3.2 3.2.1 3.2.6
3,167,302	1	DVD-RW Part 1 3.2 3.2.1 3.2.6
3,167,302	1	DVD-R Part 1 3.2 3.2.1 3.2.6
3,169,366	7	DVD-R Part 1 4.2.1 4.2.3 Annex W
3,169,368	1	DVD-Video Recording Part 3 4.2.3 Table 4.2.3.3.1-1
3,173,607	1	DVD-RW Part 1, 3.4.1.1 Fig. 3.4.1.1-1 3.4.1.3 Fig 3.4.1.3-1 3.4.1.4. Fig 3.4.1.4-1
3,173,607	1	DVD-R Part 1, 3.4.1.1 Fig. 3.4.1.1-1 3.4.1.2 Fig 3.4.1.2-1 3.4.1.4. Fig 3.4.1.4-1

3,169,366	7	DVD-RW Part 1 4.2.1 4.2.3 Annex X
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Mitsubishi Electric Industrial Corporation
Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
1,627,483	1	DVD-R Commercially Essential
1,627,483	1	DVD-RAM Commercially Essential
1,627,483	1	DVD-RW Commercially Essential
1,739,697	1	DVD-R Commercially Essential
1,739,697	1	DVD-RAM Commercially Essential
1,739,697	1	DVD-RW Commercially Essential
1,804,821	1	DVD-R Commercially Essential
1,804,821	1	DVD-RAM Commercially Essential
1,804,821	1	DVD-RW Commercially Essential
1,920,835	1	DVD-RAM/-RW/-R Part 1 Fig. 2.8.2-1 Fig.5.2.11.6-1 Table 5.2.11.6-1
2,088,711	1	DVD-R Part 1 2.2.3.8-1 Fig. 2.2.3.8.1-1 4.2.3.6.3
2,088,711	1	DVD-RAM Part 1 2.8.1.3 Annex F
2,088,711	1	DVD-RW Part 1 2.2.3.8-1 Fig. 2.2.3.8.1-1 4.2.3.6.3 Annex K

2,616,969	1	DVD-RAM Part 1 5.2.1.1 Fig.5.2.1.1-1 Fig.5.2.1.1-2 5.2.3 5.2.4
2,663,152	1	DVD-RAM Ver. 1 Part 1 2.3.5 2.7.1.2.3
2,697,827	1	DVD-RAM/-RW PH5-14, 20
2,691,087	8	DVD-RAM/-RW/-R Part 2 Figs. 2.2-1 2.3-1, 3.1-1 Tables 2.5.1-1 2.6.7-1, 3.2-1, 3.4.1-1, 3.6.1-1 3.6.2-1 3.7.1-1 Annex D
3,027,818	3	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1 5.2.1.1-2
3,030,303	2	DVD-RAM Part 1, Table 5.4-1 5.2.11
3,063,613	5	DVD-RAM Part 1, 5.2.1.1 Table 5.4-1
3,070,467	3	DVD-RAM Part 1, Table 5.4-1. 5.2.11

3,073,745	1	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-2
3,085,536	11, 12	DVD-ROM PH-37, 41,47
3,085,536	11.12	DVD-R Part 1, 3.1.4 3.2.2 4.2.3.2
3,085,536	11.12	DVD-RAM Part 1, 5.1.3 5.1.4 5.2.1.1 5.2.4
3,085,536	11.12	DVD-RW Part 1, 3.1.4 3.2.2 4.2.3.2
3,085,538	5	DVD-RAM Part 1, Table 5.4-1 5.2.11 Table 5.5.5-1
3,090,925	1	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1 2.3.5 2.7.1.3 Annex E Annex L
3,091,198	1,3	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-2 Fig.2.7.1.3-5 Fig.2.7.1.3-8 Annex L

3,092,510	3	DVD-RAM Part 1, 5.2.1.1 5.2.4 Annex L (2)
3,316,573	1	DVD-Video/Video Recording, VI5-9 Fig.5.2.1-1
3,363,859	2, 3, 4	DVD-RAM/-RW/-R/-ROM PH5-5 5.2 Table 5.5.5-1
3,363,860	2, 3, 4	DVD-RAM/-RW/-R/-ROM PH5-63, 65 5.7.1.5.1
3,370,457	3, 5	DVD-Video, VI4-61, 77, 83
3,370,468	1	DVD-Video, VI4-135(4) Fig.4.5.1-1 VI5-11 Fig.5.2.2-1
3,375,431	3	DVD-Video/Video Recording, VR3-15, 40, 41 VR4-31, 34
3,375,616	4, 6, 7, 9	DVD-Video VI4-133, 135, 137 VI5-3.9
2, 545, 302	1, 5	DVD-Video Recording Commercially Essential
2, 766, 919	8, 17	DVD-Video Recording Part 3 1.2 5.5.1.2 5.5.2.3

Sanyo Electric Co., Ltd.

Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
2,726,033	1	DVD-RAM/-RW/-R Fig. 2.1-1 5.1.1 Table 5.4-1 Fig.5.7.1.1-1 Fig.5.7.1.5-1 Table 5.7.1.5.1-1
3,177,503	3	DVD-RAM/-RW Fig. 2.1-1 5.1.1 Table 5.4-1 Fig.5.7.1.1-1 Fig.5.7.1.5-1 Table 5.7.1.5.1-1

Sharp Corporation
Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
2,801,510	5	DVD-RAM 2.8.1.3.2 Annex F Figure F-1 DVD-RW 2.2.3.8.1-1
3,111,168	1	DVD-RW/-R 3.2, 3.2.1 Fig. 3.2.1-1 4.2 Fig. 4.2.1-1
3,359,745	5	DVD-Video Recording VR3-5, 35, 39, 43 VR4-1, 31, 32, 34, 55, 64

Toshiba Corporation
Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
2,977,513	16	DVD-Video Recording Part 3 5.3.4 Fig 5.3.4-1 5.5.3 Fig.5.5.3-1,2 5.5.3.1, 5.5.5.3
2,954,083	3	DVD-RAM Part 1, 5.2.1.1 5.2.3
2,954,129	3	DVD-RAM Part 1, 5.2.1.1 5.2.2 5.2.3
2,954,130	3	DVD-RAM Part 1, 5.2.1.1 5.2.3
2,954,132	3	DVD-RAM Part 1, 5,2,1,1 5.2.2 5.2.3
2,954,135	5	DVD-RAM Part 1, 5.2.1.1 5.2.2 5.2.3
3,080,902	4	DVD-RAM Part 1, 5.2.1.1 5.2.4 Annex L
2,848,809	1	DVD-RAM Part 1, 5.6.2 Annex K

3,029,399	1	DVD-RAM Part 1, 5.6.3 Annex K
3,029,400	1	DVD-RAM Part 1, 5.6.2 Annex K
2,862,850	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-1 Annex K
3,071,828	15	DVD-RAM Part 1, 5.2.11.7 Fig. 5.2.11.7-1
2,920,065	3	DVD-RAM Part 1, 5.2.11 Fig. 5.2.11-1 5.2.11.7 Fig 5.2.11.7-1
2,883,554	6	DVD-RAM Part 1, 5.2.11.9 Fig. 5.2.11.9-1
3,383,601	1	DVD-Video Recording VRX-H Commercially Essential
3,383,663	1	DVD-Video Recording VR3-9, 22 VR4-25, 26, 65, 66 VRX-H3
3,356,691	3	DVD-Video Recording VRX-H VR4-25, 26
3,353,247	1	DVD-Video Recording VR2-1 FS2-2 PH5-40, 41, 47
3,376,295	1	DVD-Video Recording VR2-1 FS3-3, 4, 15, 23, 44

3,353,250	1	DVD-Video Recording FSX-C, G
3,376,363	1	DVD-Video Recording FSX-C, G VRX-G4
3,376,364	1	DVD-Video Recording FSX-C, G VRX-G4
3,376,288	2	DVD-Video Recording FS2-33, 35
3,389,086	1	DVD-RW PH4-1 FS2-2, 4 FS3-15 VR3-35 VRX-H8
3,389,089	1	DVD-RW PH4-1 FS2-2, 4 VRX-H5~9
3,389,230	2	DVD-RW PH4-1 FS2-2, 4, 33, 35
3,389,231	1	DVD-RW PH4-1 FS2-2, 4 VR3-9, 10, 22 VR4-31
3,389,088	2	DVD-RW PH4-1 FS2-2, 4 VRX-H4 FSX-C5, C7
3,389,238	1	DVD-RW PH4-1 FS2-2, 4 FSX-C4, 5 VRX-H8, 9
3,113,200	3	DVD-RAM PH-128, 134, 155, 160-162, 167

3,113,201	1	DVD-RAM PH-128, 134, 155, 160-162, 167 PHX-18 Annex K
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Victor Company of Japan**Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)**

Japanese Patent No.	Claim	Relevant sections of DVD Specification
2,023,593	1	DVD-R/-RW 4.2.1 Fig. 4.2.1-1 Table 4.2.1-1
2,073,584	1	DVD-Video Recording Commercially Essential
2,133,528	1	DVD-Video Recording Commercially Essential
2,138,621	1,2	DVD-RAM Part 1., 5.2.11.6
2,138,621	1,2	DVD-R Part 1., 3.2.6
2,138,621	1,2	DVD-RW Part 1., 3.2.6
2,516,041	1	DVD-Video Recording Commercially Essential
2,516,082	2	DVD-Video Recording 5.5.1.1 5.5.1.2 Commercially Essential
2,521,160	1, 2	DVD-Video Recording Table 5.5.1.2.1-2 Commercially Essential
2,532,906	1	DVD-RAM Part 1, 5.2.11.9
2,532,906	1	DVD-R Part 1, 3.2.1, 3.2.2, 3.2.9
2,532,906	1	DVD-RW Part 1, 3.2.1, 3.2.2, 3.2.9
2,591,029	2	DVD-Video Recording 4.2.3.3.4.2 4.2.3.3.4.3

2,591,030	2	DVD-Video Recording 4.2.3.3.4.3
2,617,772	2	DVD-Video Recording 5.3.1 Fig.5.3.1-2 5.5.1 Fig.5.5.1-1
2,734,305	1	DVD-Video Recording Commercially Essential
2,745,305	1	DVD-R Commercially Essential
2,745,305	1	DVD-RW Commercially Essential
2,760,327	6	DVD-VR 3.6.2 Annex G.3 Table G.3-1
2,760,328	1	DVD-Video Recording 3.1 (1) Commercially Essential
2,864,950	1	DVD-Video Recording 4.1.1 Table 4.1.1-3
2,906,950	1	DVD-Video Recording 3.5.2 Figure 3.5.2-1
2,924,880	1	DVD-RAM Part 1, 2.7.3.3 Annex L
2,925,043	1	DVD-Video Recording 5.5.3 5.5.3.2.1 Table 5.5.3.2.1-1 5.5.3.3.1
2,925,047	1, 2	DVD-Video Recording 5.5.3.2 5.5.3.2.1 5.5.3.2.2
2,927,163	11,13	DVD-RAM Part 1, 5.2.11.6

2,927,163	11,13	DVD-R Part 1, 3.2.6
2,927,163	11,13	DVD-RW Part 1, 3.2.6
2,932,950	1, 4	DVD-Video Recording 5.3.2. 5.3.3. 5.3.4
2,947,395	1	DVD-R/-RW/-ROM/-Video Table 4.5.4-1 VOBU_SRI
3,019,638	1	DVD-Video Recording Commercially Essential
3,019,659	1	DVD-Video Recording Commercially Essential
3,033,513	1,2	DVD-RAM Part 1, 5.2.11.6
3,033,513	1,2	DVD-R Part 1, 3.2.6
3,033,513	1,2	DVD-RW Part 1, 3.2.6
3,082,699	1,2	DVD-RAM Part 1, 5.2.11.6
3,082,699	1,2	DVD-R Part 1, 3.2.6
3,082,699	1,2	DVD-RW Part 1, 3.2.6
3,090,111	1-4	DVD-RAM Part 1, 5.1.4, 5.5.5
3,094,910	6, 7	DVD-Video Recording Commercially Essential
3,094,910	6, 7	DVD-R Part 1, 2.1.3.6 Commercially Essential

3,094,910	6, 7	DVD-RW Part 1, 2.1.3.6 Commercially essential
3,317,439	1	DVD-RAM PH5-19 5.2.11.6 DVD-RW PH3-8 3.2.6 DVD-R PH3-7 3.2.6 DVD-ROM/-Video/-Audio PH-46 3.2.6
3,356,178	1	DVD-Video Recording Fig. 3.6-1 Annex I I.4 Figure I. 4-1
3,363,146	1	DVD-Video Recording Fig. 3.6-1 Annex I I.4 Figure I. 4-1
3,363,147	1	DVD-Video Recording Fig. 3.6-1 Annex I I.4 Figure I. 4-1
3,364,594	1	DVD-Video Recording 5.5.3.2 5.5.3.2.1 VR 5-71 4) SET_CONTR Commercially Essential
3,367,657	1	DVD-R/-RW 3.2.1 3.2.7 3.2.9 3.2.10
3,375,078	1	DVD-Video Recording 5.5.3.2 5.5.3.2.1 VR 5-71 4) SET_CONTR Commercially Essential

3,375,079	1	DVD-Video Recording 5.5.3.2 5.5.3.2.1 VR 5-71 4) SET_CONTR Commercially Essential
3,375,080	1	DVD-Video Recording 5.5.3.2, 5.5.3.2.1 VR 5-71 4) SET_CONTR Commercially Essential
3,376,831	1	DVD-Video Recording 5.5.3.2 5.5.3.2.1 VR 5-71 4) SET_CONTR Commercially Essential
3,379,703	2	DVD-Video Recording Table 4.1.1-1 Table 4.1.1-2 4.1.2.2
3,381,342	2	DVD-Video Recording Table 4.1.1-1 Table 4.1.1-2 4.1.2.2
3,381,630	1	DVD-Video Recording VR 3-5 Fig. 3.4.1.4-1 4.2.3.3.4.3
3,381,723	1	DVD-Video Recording VR 3-5 Fig. 3.4.1.4-1 4.2.3.3.4.3
3,381,724	1	DVD-Video Recording VR 3-5 Fig. 3.4.1.4-1 4.2.3.3.4.3
3,381,725	1	DVD-Video Recording VR 3-5 Fig. 3.4.1.4-1 4.2.3.3.4.3

3,389,988	3	DVD-R/-RW Ver.1. 1 3.4.1.4 Fig. 3.4.1.4-1 Commercially Essential
3,389,990	1	DVD-R/-RW Ver.1. 1 3.4.1.4 Fig. 3.4.1.4-1 Commercially Essential
3,389,991	1	DVD-R/-RW Ver.1. 1 3.4.1.4 Fig. 3.4.1.4-1 Commercially Essential
3,389,992	3	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1
3,389,993	3	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1
3,389,994	1	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1
3,389,995	1	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1
3,389,996	3	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1
3,389,997	3	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1
3,389,998	3	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1

3,389,999	3	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1
3,391,385	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,386	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,387	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,388	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,389	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,390	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,391	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,392	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential

3,391,393	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,394	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,395	2	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,396	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,397	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,398	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,399	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,391,400	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential

3,391,401	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential
3,395,779	1	DVD-RW Ver.1. 1 3.4.1.4 Annex Y Commercially Essential

Warner Bros. Home Entertainment Inc.
Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
NONE		

Panasonic/ Toshiba

Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
3,313,928	1	DVD-RAM 3.3 3.3.1 Table 3.3-1 3.3.2 Table 3.3-2

Panasonic/ Mitsubishi
Essential DVD DVD Recorder and Recordable Disc Drive Patents (Japan)

Japanese Patent No.	Claim	Relevant sections of DVD Specification
3,103,505	5	DVD-RAM PH2-17 PH5-1~11 Fig.5.2.1.1-1