

## Summary report of Essential DVD Playback Patents (Japan)

Hitachi, Ltd.

### Essential DVD Playback Patents (Japan)

Japanese Patent No.	Claim	Reference to 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
2,546,100	1	DVD-RAM Part 1, 2.8.1.3.1
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
2,702,923	1	DVD-RAM Part1, 2.8.1.3.2
2,719,130	1	DVD-RAM Part1, 2.8.1.3.2 Annex F
2,738,304	1	DVD-RAM Part 1, 2.7.1.3, 2.8.1.2.3 Annex E (Ver. 1.0)
2,753,321	17	DVD-RAM Commercially Essential

2,804,130	2	DVD-RAM PH2-14 DVD-RW PH2-13
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-Video Recording 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
2,908,012	1	DVD-RAM Part 1, 2.8.1.3.1 Annex F
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

3,092,523	1	DVD-RAM Part 1, 2.8.1.3.1 Annex F
3,107,247	10	DVD-ROM PH-51, 52, 53 Table 5.2.9-1 3.3.2 PHX-13, J-1
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
3,134,869	1	DVD-RW 2.2.3.8.1 Annex K
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
3,164,111	1	DVD-Video Recording Part 3 4.3.3.3, 4.3.3.3.2
3,189,616	2	DVD-ROM PH-23 Commercially Essential
3,220,128	1	DVD-RAM Fig.5.2.1.1-1 PXU-1, U.1
3,255,124	17	DVD-R PH-101, 105 Fig. 4.2.3.4-1 DVD-RW PH4-6, 11 Fig.4.2.3.4-1
3,329,979	2	DVD-Video/Video Recording VI4-77, 79, 133, 144,145
3,339,841	7	DVD-RAM PH5-40 Table 5.4-1

3,356,991	10	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	3	DVD-ROM/-RAM/-RW/-R PH-50, 51 Fig.3.2.1-1 Fig.3.2.4-1
3,384,325	2	DVD-ROM/-RAM/-RW/-R PH-40, 47, 49
3,384,402	1	DVD-ROM/-RAM/-RW/-R PH-40, 47, 49

**Panasonic Corporation**  
**Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
1,426,570	1	DVD-ROM/Video Commercially Essential
1,439,182	1	DVD-ROM/Video Commercially Essential
1,582,688	1	DVD-ROM/Video Commercially Essential
1,633,158	1	DVD-ROM/Video Commercially Essential
1,734,484	1	DVD-ROM/Video Commercially Essential
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	3	DVD-ROM/Video 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
2,140,248	1	DVD-ROM VIX-65 Commercially Essential
2,558,973	1	DVD-ROM/Video 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
2,638,248	9	Part 1 2.5, 3.2.7, 3.2.9 Figs. 2.5-1, 3.2.7-1, 3.2.9-1 (Page PH-21, 47-50)
2,650,357	1	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1 Annex P
2,650,538	5	Part 3 2.2.12.1, Fig. 3.3.12, 1-2 3.3.12.2 Fig. 3.3.12.2-2 4.5.2, Table 4.5.2-1 (Pages VI3-84, VL4-137,138)
2,661,541	1	DVD-ROM/Video Commercially Essential
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
2,707,864	3	Part 3 Annex K, K.6 Fig.K6-1, K6-4 (Pages VIX-68, 71)
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	DVD-RAM Part 1, 5.2.1.1 Fig.5.2.1.1-1, 5.2.8, 5.2.9 Annex P
2,723,832	13	Part 1 3.2, Fig.3.2-1, 3.2.6, Fig.3.2.6-1 (Pages PH-40,46)
2,762,765	1	Part 3 3.1.1, Fig.3.1.1-1 3.1.4, Fig.3.1.4-1 4.1.2, Fig.4.1.2-1,2 (Pages VI3-1, 4, VI4-12-14)
2,773,606	1	DVD-RAM Part 1, Table 5.7.1.5.1-1 BP503-510
2,797,033	3	Part 3 3.2.2, 3.3.5.1, 3.3.4, 3.3.10, 4.3.2(6), 4.3.5 (Pages VI3-8, 21, 26, 61, VI4-92, 99)
2,804,630	1	Part 3 4.2, 4.2.3, 4.3.1, 4.3.5 (Pages VI4-38, 61, 92, 93, 99, 100)
2,813,245	1	Part 3 3.3.10, 4.4, Table 4.4-1, Fig. 4.4-1, 4.4.3.1,4.4.3.4, 4.6.4.3 (Pages VI3-61, VI4-106, 114, 126, 212)
2,821,030	1	Part 3 3.3.10.99 4.4., Table 4.4-1 Fig.4.4-1, 4.4.3.1, 4.6.4.5 (Pages VI3-61, VI4-114, 225)
2,827,495	3	Part 2 2.3, Fig.2.3-1 (Pages FS-1, 18)
2,856,363	1	Part 3 4.3.2(3), 4.4.1(3) (Pages VI4-86, 108)

2,863,052	7	Part 1 3.2.9, Fig.3.2.9-1, Table 3.2.9-1 3.3 (Pages PH-50-52)
2,864,666	3	Part 3 4.5, Table 4.5-1, 4.5.4, Table 4.5.4-1 (Pages VI4-133, 144-150)
2,869,195	5	Part 3 4.1.2-2 (Page VI4-13)
2,883,209	18	DVD-ROM/Video VI4-133, 144, 145 Fig.4.5.4-1
2,887,319	1	DVD-ROM/Video VI2-8, VI4-142, 143 Table 4.5.3-1 Fig.4.5.3-1
2,887,949	5	DVD-RAM 5.5.3 Annex R R.1.3, R.1.3.3
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
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	10	DVD-ROM 3.4.1.3 Annex K
3,042,780	9	DVD-RAM Part 1, Annex V 5.7.1.5.1 (PP1c)
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
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
3,069,338	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-ROM Annex K
3,089,599	6	DVD-RAM Part 1, Annex V V 2, V 4
3,089,601	1	DVD-ROM/-RAM/-R/-RW ROM Annex K
3,089,601	1	DVD-RAM Part 1, Annex V 5.7.1.1
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 5.6.5-1

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-ROM Annex K 3.4.1.3
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-RAM 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
3,108,070	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
3,114,969	4	DVD-Audio Part 4 3.1, 3.1.2, 3.1.4, 3.1.5, 3.1.6, 3.2



3,114,970	3	DVD-Audio Part 4 5.1, 7.1.2 Fig. 7.1.2-2, 7.1.2.2 Table 7.1.2.2-1
3,114,971	5	DVD-Audio Part 4 3.1, 3.1.2, 3.1.4, 3.1.5, 3.1.6, 5.1.1, 5.1.2
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
3,129,092	1	DVD-Video Commercially Essential
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-ROM Annex K K.4 3.4.1.3
3,143,454	4	DVD-R/-RAM Part 1 3.4.1 Annex W
3,143,455	4	DVD-R Part 1 3.4.1 Annex W DVD-RAM Part 1 3.4.1 Annex X
3,150,136	3	DVD-Video Recording Part 3 4.1.2, 4.1.2.2 (RBP8-135) 4.5, 4.5.3
3,152,651	13	DVD-Video Recording Part 3 3.4.1.1, 3.4.1.4 Table 4.8.4.1.1-1, 2
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
3,154,703	6	DVD-Video Recording Part 3 Figure 3.2-1 3.4.1.2, 3.4.1.5
3,156,507	1	DVD-ROM/Video Commercially Essential

3,159,692	5	DVD-Video Recording Part 3 4.1.2, 4.1.2.2 (RBP1) 4.5, 4.5.3
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
3,162,054	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/-RAM Part 1 3.2, 3.2.1, 3.2.6
3,167,302	1	DVD-R/-RAM 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 DVD-RAM Part 1 4.2.1, 4.2.3 Annex X
3,169,368	1	DVD-Video Recording Part 3 4.2.3 Table 4.2.3.3.1-1
3,170,499	2	DVD-R FS3-44 3.8.2 FSX-A7 Commercially Essential
3,170,502	7	DVD-R FS2-3 Fig.4.1.4-1 FS3-1, 7
3,170,503	6	DVD-R FS2-3 Fig.4.1.4-1 FS3-1, 7
3,170,504	11	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	25	DVD-RAM FS3-44 3.8.2 FSX-C1
3,173,607	1	DVD-R/-RAM 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
3,180,542	1	DVD-Video VI5-32, 34 VIX-68

3,183,874	7	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
3,199,711	3	DVD-Video Recording VR4-17, 18, 24
3,201,143	1	DVD-Video VI3-61, 70 VI4-115, 118, 121 4.4.3.3
3,225,035	5	DVD-ROM Annex K K.4
3,225,036	5	DVD-ROM Annex K K.2, K.4
3,242,639	3	DVD-Video Recording VR4-15~18
3,246,731	4	DVD-ROM Annex K Commercially Essential
3,292,468	6	DVD-ROM Annex K K.5.2
3,325,581	4	DVD-Video VI4-133 4.5 Fig.4.5-1 4.5.4 Table 4.5.4-1
3,327,463	5	DVD-Audio Fig.7.1-1 Fig.7.1.2.3-1 Fig.7.1.2.3.3-1,2 Table 7.1.2.3.3-1
3,334,795	2	DVD-Audio Fig.7.1-1 Fig.7.1.2.3.4-1 Table 7.1.2.3.4.2-1

3,334,799	3	DVD-Audio Fig.3.1-1 Fig.6-1 Fig.7.1-1 Table 7.1.2.3.4.2-1
3,334,801	3	DVD-Audio Fig.7.1-1 Fig.7.1.2.3.4-1 Table 7.1.2.3.4-1 Table 7.1.2.3.4.2-1
3,334,802	2	DVD-Audio Fig.7.1-1 Fig.7.1.2.3.4-1 Table 7.1.2.3.4-1 Table 7.1.2.3.4.2-1
3,334,803	2	DVD-Audio Fig.7.1-1 Fig.7.1.2.3.4-1 Table 7.1.2.3.4-1 Table 7.1.2.3.4.2-1
3,338,032	4	DVD-Video VR4-144 4.5.4 Table 4.5.4-1
3,338,033	4	DVD-Video VR4-144 4.5.4 Table 4.5.4-1
3,338,034	4	DVD-Video VR4-144 4.5.4 Table 4.5.4-1
3,338,035	4	DVD-Video VR4-103, 144 4.3.5 Fig.4.3.5-1 4.5.4 Table 4.5.4-1
3,338,036	4	DVD-Video VR4-103, 144 4.3.5 Fig.4.3.5-1, 4.5.4 Table 4.5.4-1

3,338,037	4	DVD-Video VR4-144 4.5.4 Table 4.5.4-1
3,338,038	4	DVD-Video VR4-103, 144 4.3.5 Fig.4.3.5-1 4.5.4 Table 4.5.4-1
3,338,039	4	DVD-Video VR4-103, 144 4.3.5 Fig.4.3.5-1 4.5.4 Table 4.5.4-1
3,338,040	4	DVD-Video VR4-103, 144 4.3.5 Fig.4.3.5-1, 4.5.4 Table 4.5.4-1
3,338,041	4	DVD-Video VR4-144 4.5.4 Table 4.5.4-1
3,338,042	4	DVD-Video VR4-103, 144 4.3.5 Fig.4.3.5-1 4.5.4 Table 4.5.4-1
3,344,607	2	DVD-ROM Fig.5.1-1 Table 4.5-1 Fig.4.5.4-1
3,345,019	5	DVD-ROM/Video VI4-113, 115, 126 4.4.3, 4.4.3.4
3,345,412	4	DVD-ROM/Video VI4-113, 115, 126 4.4.3, 4.4.3.4



3,345,413	4	DVD- ROM/Video VI4-113, 115, 126 4.4.3, 4.4.3.4 VI2-11, 17 2.4.50, 2.4.92
3,345,414	4	DVD-ROM/Video VI5-66, 76, 82, 88
3,350,542	2	DVD-Video VI3-80-84 VI4-99, 137 4.3.5 Fig.4.3.5-1 Table 4.3.5-1 4.5.2 Table 4.5.2-1
3,350,543	2	DVD-Video VI3-80-84 VI4-99, 137 4.3.5 Fig.4.3.5-1 Table 4.3.5-1 4.5.2
3,350,544	2	DVD-Video VI3-80-84 VI4-99, 137 4.3.5 Fig.4.3.5-1 Table 4.3.5-1 4.5.2 Table 4.5.2-1
3,350,545	2	DVD-Video VI3-80-84 VI4-99, 137 4.3.5 Fig.4.3.5-1 Table 4.3.5-1 4.5.2 Table 4.5.2-1
3,356,759	2	DVD-Video VI4-95, 96, 126, 129, 155, 246, 252, 257
3,356,767	4	DVD-Video VI4-95, 96, 126, 129, 155, 246, 247, 252
3,356,768	4	DVD-Video VI4-95, 96, 126, 129, 155, 246, 247, 252

3,356,769	3	DVD-Video VI4-82, 86
3,356,770	3	DVD-Video VI4-82, 86
3,357,374	18	DVD-ROM 3.2.1, 3.2.7, 3.2.8 Fig. 3.2.8-1
3,360,628	1	DVD-ROM PH40, 41, 47 Fig.3.2.1-1 Fig.3.2.7-1 3.2.2
3,360,632	1	DVD-ROM PH40, 47 Fig.3.2.1-1 Fig.3.2.7-1
3,361,511	1	DVD-Video VI3-91, 92 VI4-137~139
3,361,512	1	DVD-Video VI3-91, 92 VI4-137~139
3,361,513	1	DVD-Video VI3-91, 92 VI4-137~139
3,361,514	1	DVD-Video VI3-91, 92 VI4-137~139
3,361,515	1	DVD-Video VI3-89, 91, 92 VI4-137~139
3,361,516	1	DVD-Video VI3-89, 91, 92 VI4-137~139
3,362,856	4	DVD-ROM/Video VI5-66, 76, 82, 88
3,364,212	8	DVD-Video VI4-133, 137, 139 4.5 Table 4.5-1 4.5.2 Table 4.5.2-1

3,364,213	4	DVD-Video VI4-133, 137, 139 4.5 Table 4.5-1 4.5.2 Table 4.5.2-1
3,364,214	5	DVD-Video VI4-133, 137, 139 4.5 Table 4.5-1 4.5.2 Table 4.5.2-1
3,364,216	8	DVD-Video VI3-89 3.3.12.5, 3.3.12.6 Fig.3.3.12.6-1
3,370,659	1	DVD-ROM/Video 4.5.4-1 Fig.5.1-1 Fig.5.4.1-1
3,372,025	2	DVD-Video VI4-93
3,372,036	2	DVD-Video VI4-93
3,372,037	2	DVD-Video VI4-93
3,372,038	2	DVD-Video VI4-93
3,375,618	3	DVD-Video Annex K
3,375,619	5	DVD-Video Annex K
3,375,620	5	DVD-Video Annex K
3,375,621	5	DVD-Video Annex K
3,375,622	5	DVD-Video Annex K

3,377,788	2	DVD-Video VI3-80-84 VI4-99, 137 4.3.5 Fig.4.3.5-1 Table 4.3.5-1 4.5.2 Table 4.5.2-1 4.5.3 Table 4.5.3-1
3,377,789	2	DVD-Video VI3-80-84 VI4-99, 137 4.3.5 Fig.4.3.5-1 Table 4.3.5-1 4.5.2 Table 4.5.2-1 4.5.3 Table 4.5.3-1
3,377,790	2	DVD-Video VI3-80-84 VI4-99, 137 4.3.5 Fig.4.3.5-1 Table 4.3.5-1 4.5.2 Table 4.5.2-1 4.5.3
3,379,961	2	DVD-Video VI4-82, 86
3,382,614	4	DVD-Video VI4-133, 137, 139 4.5 Table 4.5-1 4.5.2 Table 4.5.2-1
3,382,615	2	DVD-Video VI4-133, 137, 139 4.5 Table 4.5-1 4.5.2 Table 4.5.2-1

**Mitsubishi Electric Corporation**  
**Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
1,495,225	1	Part 3 1.3(12) IEC 958
1,627,483	1	DVD-ROM/Video Commercially Essential
1,739,697	1	DVD-ROM/Video Commercially Essential
1,804,821	1	DVD-ROM/Video Commercially Essential
2,088,711	1	DVD-R/-RW Part 1 2.2.3.8-1 Fig. 2.2.3.8.1-1 4.2.3.6.3 Annex K DVD-RAM Part 1 2.8.1.3 Annex F
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
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
3,066,677	22	DVD-ROM 1.1 2.5.4 Fig. 2.5-2 Commercially Essential
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-R/-RW/-RAM 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)

3,216,795	2	DVD-ROM 1.1, 2.5.4 Fig. 2.5-2 PH-68, BP(2) Commercially Essential
3,316,572	1	DVD-Video/Video recording/Audio VI5-9 Fig.5.2.1-2
3,316,573	2	DVD-Video/Video recording/Audio VI5-9 Fig.5.2.1-1
3,370,457	7, 8	DVD-Video/Audio VI4-61, 77, 83
3,370,468	3, 4	DVD-Video/Audio VI4-135(4) Fig.4.5.1-1 VI5-11 Fig.5.2.2-1
3,375,431	5, 6, 7	DVD-Video Recording VR3-15, 40, 41 VR4-31, 34
3,375,615	1, 5	DVD-Video VI5-3, 9 VI4-133, 135, 137
3,511,315	2	DVD-RAM 5.1.1, 5.1.3, 5.2.1.1, 5.2.4, 5.2.7, 5.2.11 Figure 5.2.1.1-1 DVD-Video 4.4.1, 5.1.1, 5.4.1 Tables 4.4.1-1, 5.1-1
2,766, 919	17	Part 3 1.2 5.4.1.2, 5.4.2.3 (pages VI 1-2, VI5-40, 52, 53)
2,766, 919	8, 17	DVD-Audio Part 4 1.2, 5.4.1.2, 5.4.2.3 DVD-Video Recording Part 3 1.2, 5.5.1.2, 5.5.2.3

**Sanyo Electric Co., Ltd.**  
**Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
3,148,683	7, 8	DVD-ROM Commercially Essential
3,177,504	3	DVD-RAM 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
3,177,505	3	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



**Sharp Corporation**  
**Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
2,878,574	3	DVD-RAM 2.6, 2.6.1, 2.6.3 5.2, 5.2.1, 5.2.1.1 Fig.5.2.1.1-2
3,124,961	4	DVD-RAM 2.6, 2.6.1, 2.6.3 5.2, 5.2.1, 5.2.1.1 Fig.5.2.1.1-2
3,359,745	1	DVD-Video Recording VR3-5, 35, 39, 43 VR4-1, 31, 32, 34, 55, 64

**Toshiba Corporation**  
**Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
2,501,313	1	DVD-ROM/Video Commercially Essential
2,665,217	2	Part 3 4.1.1 (Page VI4-5)
2,677,775	1	Part 3 3.1.1, Fig.3.1.1-1 4.2.3, 4.3.5 5.1, Fig.5.1-1 (Pages VI3-1, VI4-61, 99, VI5-3)
2,704,107	7	Part 1 1.2, 2.6.13, (Pages PH2, 26 ) Commercially Essential
2,712,099	47	Part 3 5.1, 5.2.1, 5.2.5, 5.4.3, Fig.5.1-1, Fig.5.2.5-1, Table 5.2.5-1, Fig 5.3-2 Fig.5.4.3-1, Table 5.4.3.1-1 (Pages VI5-3, VI5-28, 29, 34, 66, VI5-68, 78)
2,718,834	1	Part 3 3.3.4.2, Fig. 3.3.4.2-1 3.3.9.5, 4.2.3 Annex G Table G.1-1 (Pages VI3-25, 59, VI4-62,63, VIX-41-43)
2,723,498	1	DVD-Video Commercially Essential
2,723,500	1	DVD-Video Commercially Essential

2,747,262	1	Part 3 3.1.4, Fig. 3.1.4-1 4.1.3, Fig.4.1.3-1.2 4.3.5, Table 4.3.5-1 4.6.1.2, Table 4.6.1.2-1 Annex J Table J.1-2 (Page VI3-4, VI4-15-16, 100, 156-158, VIX-61)
2,747,268	1	Part 3 5.1.1, Fig. 5.1-1 (Pages VI5-3.5) 4.5, Table 4.5-1 4.5.4, Fig.4.5.4-1 4.5.5, Table 4.5.5-1 (Pages VI4-133, 135, 144-146, 151) Annex J, J.1.11, 12 (Pages VIX-54, 55, 93, 94)
2,768,833	1	Part 3 4.2, 4.2.1, Table 4.2.1-1 (RBP 340-347) 5.1, Fig. 5.1-1 3.3.11.2, Fig.3.3.11.2-1 (Pages VI3-73, VI4-38, 39, VI5-3)
2,768,937	1	DVD-Video Commercially Essential
2,807,454	1	Part 3 3.1.4, Fig 3.1.4-1 Fig 3.3.6.2-1 Fig 3.3.12-2, -3 Fig 3.3.12.2-1 4.2.3, Fig 4.2.3-1 4.2.8, Fig 4.2.8-1 4.3.1, Fig 4.3.1-1 Fig 5.3-1 Table N-1 (Pages VI3-4, 31, 80, VI3-84, VI4-61, 77, VI4-83, VI5-34, VIX-76)

2,807,455	1	Part 3 3.1.4, Fig 3.1.4-1 Fig 3.3.6.2-1 Fig 3.3.11.2-1 Fig 3.3.12-2, -3 Fig 3.3.12.2-1 4.2.3, Fig 4.2.3-1 4.2.8, Fig 4.2.8-1 4.3.1, Fig 4.3.1-1 Fig 5.3-1 Table N-1 (Pages VI3-4, 31, 80, VI3-84, VI4-61, 77, VI4-83, VI5-34, VIX-76)
2,810,028	7	Part 1 1.2, 3.4.1.2 Fig.2.6-1, Fig.3.4.1.1-1 Table 3.3-1 (Pages PH-2, 27, PH-58, 64, 65)
2,810,029	3	Part 3 , 5.2.1, Fig. 5.2.1-1, -2 Table 5.2.1-1, -2 5.2.4 Fig 5.2.4-1 Table 5.2.4-1 Fig 5.4.2.1-2 Table N-4 (Pages VI5-9, 10, VI5-17, 19 to 21, VI5-49, VIX-79)
2,810,030	12	Part 3 Fig. 5.4.2.1-2 5.2.1, Fig. 5.2.1-1, Fig. 5.2.1-2, Table 5.2.1-2 5.2.4 Fig. 5.2.4-1 Table 5.2.4-1 Table N-4 (Pages VI5-9, 10, VI5-17, 19, 20, 50, VIX-79)

2,829,266	47	Part 3 Fig 5.3-2 5.4.3, Fig 5.4.3-1 5.4.3.2(a) (Pages VI5-34, 66, VI5- 68 to 71)
2,835,317	1	Part 3 3.1.4, Fig. 3.1.4-1 Fig 3.3.12.5-1 4.1, Table 4.1.1-1 4.1.5, Fig.4.1.5-1 Fig. 4.2-1 5.4.1, 5.4.2 Annex K.6-1 Table N-1 (Pages VI3-4, 90, VI4-2, 24, 39, VI5-38, 48, 66, VIX-68, 76)
2,835,318	1	Part 3 3.3.9.2, 5.1, 5.4.3.3, 5.4.3.4, Fig.5.1-1, Table 5.4.3.3-2 Table 5.4.3.4-1 Table N-2 (Pages VI3-57, VI5-3, 78 to 80, VIX-78)
2,835,321	5	Part 1 1.2, 2.1, Fig 2.4-1, 2.5, Fig 2.5-3, 2.6.13 (Pages PH2, 9, 12, PH20, 21, 24, 26, 37)
2,839,878	1	Part 3 2.4.45, 2.4.100 Fig 3.3.12.5-1 4.4, Table 4.4-1, 4.5, Table 4.5-1 5.1, Table 5.1.1-1 Table 5.1.1-2, -3 5.2, 5.2.2, Table 5.2.2-2, -3 5.2.3, 5.2.4, Fig.5.2.4-1 Table 5.2.4-1, -2 5.2.5, Table 5.2.5-1 Table H.1-1 Annex H, N Table N-1 (Pages VI2-10, 1

2,848,809	1	DVD-RAM Part 1, 5.6.2 Annex K
2,856,721	9	Part 3 2.4.34., 2.4.42 3.3.10, Fig 3.3.10-1 4.4, Table 4.4-1, 4.4.3, Table 4.4.3.1-1 Fig. 4.4.3-1, -2 5.1, 5.2.2, Fig 5.3-1 Fig 5.3-2 (Pages VI2-8, 9 VI3-61, VI4-106, VI4-113, 114,122,123, VI4-126, VI5-11, 34, VIX-77)
2,857,118	1	Part 3 Fig. 3.1.4-1 3.3.9 Algorithm 1 4,.2, Fig. 4.2-1 Table 4.2.1-3 5.1, Fig.5.1-1 Annex B.1, Table B.2-2 (Pages VI3-4, 55, 56, VI4-38, 39, 53, VI5-3, VIX- 23,24)
2,857,119	1	Part 3 2.4.37, 2.4.38 3.3.12.1 Fig 3.3.12.1-1, -3 3.3.12.2 4.5, Table 4.5-1 4.5.2, Table 4.5.2-1 4.5.3, Table 4.5.3-1 5.1, Fig 5.1-1 Annex K.4 Table N-1 (Pages VI2-8, 9, VI3-80 to 83, VI4-133, 137, 142, VI4-143, VI5-3, 34, VIX-65, 77)

2,857,120	5	Part 3 3.1.4, 3.2.1, 3.2.2, 3.3.4, 4.2 Table 3.3.4-1, Fig. 3.3.4.2-1, Table 4.1.2-2, Table 4.2.3-2 Annex G (Pages VI3-4, 7, 8, VI3- 21, 22, 25, VI4-13, 18, 20, 38, VI4-61 to 63, VIX-41 to 43)
2,857,128	1	Part 3 2.4.37, 2.4.38, 3.3.12.1 Fig 3.3.12.1-1 Fig 3.3.12.5-1 3.3.12.2 4.5, Table 4.5-1 4.5.2, Table 4.5.2-1 4.5.4 5.1, Fig 5.1-1 (Pages VI2-8, 9, VI3-81 to 83, 90, VI4-133, 137, 144, VI5-3, VIX-77)
2,857,129	3	Part 3 2.4.37, 2.4.38 3.3.12.1 Fig 3.3.12.1-1, -3 3.3.12.2 4.5, Table 4.5-1 4.5.2, Table 4.5.2-1 4.5.3, Table 4.5.3-1 5.1, Fig 5.1-1 Annex K.4 Table N-1 (Pages VI2-8, 9, VI3-80 to 83, VI4-133, 137, 142, VI4-143, VI5-3, 34, VIX-65, 77)
2,857,144	1	Part 3 2.4.46, 2.4.100 Fig 3.3.12.5-1 4.4, 4.5, 5.1 Fig 5.1-1 Table 5.1.1-3 5.2.1, 5.2.2 Fig 5.2.2-1, Table 5.2.2-2, -3 Table N-1 (Pages VI2-10, 18, VI3-90, VI4-106, 133, VI5-3, 7, 9, 11, 13, VIX-77)

2,857,145	17	Part 3 Fig 3.3.12.5-1 5.1, Table 5.1.1-1, -2 5.2.1, 5.2.4 Fig 5.2.4-1 Table 5.2.4-1, -2 5.4.2, Annex H Table H.1-1 (Pages VI3-90, VI5-3, 6, 9, VI5-17 to 20, 23, 24, VIX-44, to 46)
2,857,146	11	Part 3 2.4.100 Fig 3.3.12.5-1 5.1, Fig 5.1-1 Table 5.1.1-1, -2 5.2.1, 5.2.5 Fig 5.2.5-1 Table 5.2.5-1 (Pages VI2-18, VI3-90, VI5-3, 6, 9, 28 to 30)
2,862,850	1	DVD-RAM Part 1, 5.2.1.1 Fig. 5.2.1.1-1 Annex K
2,865,643	4	Part 3 2.4.82, 3.3.9.2 Fig 3.3.12.5-1 Table 4.6.1.2-1(c), 5.4.3, Fig 5.4.3-1 Table 5.4.3-1 Table 5.4.3.3-2 Table 5.4.3.4-1 Table N-2 (Pages VI2-16, VI3-57, 90, VI4-157, 160, VI5-66, 68, 78, 80, VIX-68, 78)
2,868,744	7	Part 3 3.2.9, Table 3.2.9-1 Fig.3.2.9-1 (PH-50, 51)



2,868,981	3	Part 3 2.1.106, 4.2 4.5, Table 4.5-1 4.5.5 5.1, Fig. 5.5-1 Fig. 5.3-2 5.4, 5.4.1, 5.4.2 Table 5.4.2-1 (Pages VI2-20, VI4-42, 44, 45, VI4-49 to 53, 133, VI4-151, VI5-3, VI5-34, 48)
2,875,231	1	Part 3 2.4.66, 2.4.97, 2.4.100, 3.1.4, 3.2.2, Fig.3.2.2-1, 3.3.5, 4.2.3, Fig.4.2.3-1 Table 4.2.3-2, 4.3.1, Fig. 4.3.1-1 4.3.2, 4.3.5, 5.1 Fig. 5.1-1 Annex K.6, Table N-1, (PagesVI2-13, 18, VI3-4, 8, 26, 38, 61, VI4-62, 83, 84, 92, 93, VI4-99, 100, 208,
2,875,237	1	Part 3 4.4, 4.4.1 Table 4.4-1 4.4.2, Fig. 4.4.2-1 Table 4.4.2-1 4.5, Table 4.5-1 4.5.3, Fig. 4.5.3-1 Table 4.5.3-1 5.1, 5.2.2 Fig. 5.2.2-1 Fig K.6-1, Table N-1 (Pages VI4-106, VI4-111, 112, VI4-133, 142 to 144, VI5-3, 5, 9, 11, VIX-68, 77)

2,877,760	1	Part 3 3.3.10.2, 4.2.3 Fig 4.2.3-1, Fig 4.2.4.1-1 Table 4.2.4.1-2 4.3.1, Table 4.3.2-1 Fig 4.3.5-1, Table 4.3.5-1 Table 4.6.2.1-5 5.1, Fig 5.1-1 (Pages VI3-67, VI4-61, 67 to 69, VI4-83, 84, 99, 100, VI4-178, VI5-3)
2,882,601	1	DVD-Video VI4-99, 100, 102 Fig.5.7.1.11-1 Fig.4.3.5-1
2,882,601	1	DVD-Audio Part 4 3.1.2, 5.1,5.1, 4.1, 5.1.4.2.1.4 Video Specification Part 3 Fig. 5.1-1
2,883,538	6	DVD-ROM PH-13 Fig.2.3.6-1
2,883,554	6	DVD-ROM PH49, 50
2,883,554	6	DVD-RAM Part 1, 5.2.11.9 Fig. 5.2.11.9-1
2,920,065	3	DVD-ROM PH40, 41, 42, 49
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
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**Victor Company of Japan, Ltd.**  
**Essential DVD Playback Patents (Japan)**

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3,342,001	2	DVD-Audio MRI-13 Fig. 6.2-1 MRI-26, 27 Fig. 8.4-1 Fig. 8.5-1

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3,344,568	1	DVD-Audio MRI-13, 15, 26 Fig. 6.2-1 Fig. 6.4-1 Fig. 8.4-1
3,344,569	3	DVD-Audio MRI-26, 34 8, 4 Fig. 8.4-1 9. 2. 2
3,344,570	2	DVD-Audio MRI-26, 27 Fig. 7.2.3-1 Fig. 8.4-1 Fig. 8.5-1
3,344,571	3	DVD-Audio MRI-26, 28, 37 Fig. 8.4-1 Fig. 8.5-1 9.4.1
3,344,572	3	DVD-Audio MRI-26 Fig. 8.4-1 Fig. 8.5-1 AU7-80 Table 7.2.4.2.3-1 AUX C2 Table C.1-1
3,344,573	3	DVD-Audio MRI-26 FIG. 7.2.3-1 Fig. 8.4-1 Fig. 8.4-5 AU 7-80 Table 7.2.4.2.3-1

3,344,574	3	DVD-Audio MRI-26 Fig. 8.4-1 Fig. 8.4-5 AU 7-80 Table 7.2.4.2.3-1 AUX C” Table C.1-1
3,344,575	3	DVD-Audio MRI-26 Fig. 8.4-1 Fig. 8.4-5 AU 7-80 Table 7.2.4.2.3-1
3,344,580	2	DVD-Audio MRI-13 Fig. 6.2-1 MRI-26, 27 Fig. 8.4-1 Fig. 8.5-1
3,344,583	2	DVD-Audio MRI-13 Fig. 6.2-1 MRI-26, 27 Fig. 8.4-1 Fig. 8.5-1
3,346,382	2	DVD-Audio MRI-26 Fig. 8.4-1 Fig. 8.5-1 AU7-80 Table 7.2.4.2.3-1 AUX C2 Table C.1-1
3,346,385	2	DVD-Audio MRI-26 FIG. 7.2.3-1 Fig. 8.4-1 Fig. 8.4-5 AU 7-80 Table 7.2.4.2.3-1

3,346,388	2	DVD-Audio MRI-26 Fig. 8.4-1 Fig. 8.4-5 AU 7-80 Table 7.2.4.2.3-1
3,346,391	2	DVD-Audio MRI-26 Fig. 8.4-1 Fig. 8.4-5 AU 7-80 Table 7.2.4.2.3-1 AUX C” Table C.1-1
3,346,394	2	DVD-Audio AUX-J1 7.2.3.1.2 Fig. 7.2.3.1-1 Table 7.2.3.1.2-1
3,346,395	2	DVD-Audio AUX-J1 7.2.3.1.2 Fig. 7.2.3.1-1 Table 7.2.3.1.2-1
3,346,398	2	DVD-Audio AUX-J1 7.2.3.1.2 Fig. 7.2.3.1-1 Table 7.2.3.1.2-1
3,346,399	2	DVD-Audio AU 7-56 7.2.3.1.2 Fig. 7.2.3.1-1 Table 7.2.3.1.2-2
3,346,402	2	DVD-Audio AU 7-56 7.2.3.1.2 Fig. 7.2.3.1-1 Table 7.2.3.1.2-2
3,346,403	2	DVD-Audio AU 7-56 7.2.3.1.2 Fig. 7.2.3.1-1 Table 7.2.3.1.2-2

3,346,406	2	DVD-Audio AU 7-56 7.2.3.1.2 Fig. 7.2.3.1-1 Table 7.2.3.1.2-2
3,346,547	2	DVD-Audio MRI-26, 34 8, 4 Fig. 8.4-1 9. 2. 2
3,346,550	2	DVD-Audio MRI-26, 27 Fig. 7.2.3-1 Fig. 8.4-1 Fig. 8.5-1
3,346,553	2	DVD-Audio MRI-26, 34 Fig. 8.4-1 9.2.2 AU 7-80 Table 7.2.4.2.3-1
3,346,556	2	DVD-Audio MRI-26, 28, 37 Fig. 8.4-1 Fig. 8.5-1 9.4.1
3,354,136	2	DVD-Audio MRI-13 Fig. 6.2-1 AU 7-56, 64 Fig. 7.2.3.1-1 Fig. 7.2.3.1.2-1
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

3,365,235	7	DVD-Audio Ver.1.2 AU7, 58 Table 7.1.2.3.1-2
3,368,755	2	DVD-Audio AU7-7, 11, 56 MRI-19 Fig.7.1-1
3,371,766	2	DVD-Audio AU7-8, 50 AU5-3 Table 5.1.1-1 AUX-E14 E.36 7.1.2.3.2
3,371,901	2	DVD-Audio AU7-8, 50 AU5-3 Table 5.1.1-1 AUX-E14 E.36 7.1.2.3.2
3,371,902	2	DVD-Audio AU7-8, 50 AU5-3 Table 5.1.1-1 AUX-E14 E.36 7.1.2.3.2
3,371,903	2	DVD-Audio AU7-8, 50 AU5-3 Table 5.1.1-1 AUX-E14 E.36 7.1.2.3.2
3,371,904	2	DVD-Audio AU7-8, 50 AU5-3 Table 5.1.1-1 AUX-E14 E.36 7.1.2.3.2

3,371,905	2	DVD-Audio AU7-8, 50 AU5-3 Table 5.1.1-1 AUX-E14 E.36 7.1.2.3.2
3,375,053	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,375,081	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,375,082	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,377,176	3	DVD-Audio AU3-5 Fig.3.1.4-1 AU6-20 Fig. 6.2.3.2-1 AU7-18, 22, 34,50 Fig.7.1.2-2 Fig.7.1.2.3-1 Fig.7.1.2.3.4-1 Fig.7.2.1-1
3,377,199	2	DVD-Audio AU3-5 Fig.3.1.4-1 AU6-20 Fig. 6.2.3.2-1 AU7-18, 22, 34,50 Fig.7.1.2-2 Fig.7.1.2.3-1 Fig.7.1.2.3.4-1 Fig.7.2.1-1

3,377,200	3	DVD-Audio AU6-2, 12 Fig.6.1-1 Fig.6.2.1-1 AU7-34 Fig.7.1.2.3.4-1
3,377,201	3	DVD-Audio AU6-2, 12 Fig.6.1-1 Fig.6.2.1-1 AU7-34 Fig.7.1.2.3.4-1 AU6-20 Fig.6.2.3.2-1
3,377,202	3	DVD-Audio AU6-2, 12 Fig.6.1-1 Fig.6.2.1-1 AU7-34 Fig.7.1.2.3.4-1 AU6-20 Fig.6.2.3.2-1
3,377,203	3	DVD-Audio AU6-2, 12 Fig.6.1-1 Fig.6.2.1-1 AU7-34 Fig.7.1.2.3.4-1 AU6-20 Fig.6.2.3.2-1
3,377,204	3	DVD-Audio AU6-2, 12 Fig.6.1-1 Fig.6.2.1-1 AU7-34 Fig.7.1.2.3.4-1 AU6-20 Fig.6.2.3.2-1
3,377,205	3	DVD-Audio AU7-34, 37 Fig.7.1.2.3.4-1 Table 7.1.2.3.4.2-1



3,377,206	3	DVD-Audio AU6-1 AU3-3, 4-2, 5 Table 4.3-1
3,377,207	2	DVD-Audio AU7-32 Table 7.1.2.3.3-1
3,381,726	1	DVD-Video Recording VR3-5, 7, 21 VR4-35 4.2.3.3.4.3
3,381,727	1	DVD-Video Recording VR3-5, 7, 21 VR4-35 4.2.3.3.4.3
3,386,060	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,061	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,062	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,063	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,064	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1

3,386,065	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,066	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,067	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,068	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,069	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,070	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,071	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1

3,386,072	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,386,073	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,387,084	3	DVD-Audio MRI-26, 34 Fig. 8.4-1 9.2.2 AU 7-80 Table 7.2.4.2.3-1
3,387,088	1	DVD-Audio MRI-13 Fig. 6.2-1 AU 7-56, 64 Fig. 7.2.3.1-1 Fig. 7.2.3.1.2-1
3,387,091	1	DVD-Audio MRI-13 Fig. 6.2-1 AU 7-56, 64 Fig. 7.2.3.1-1 Fig. 7.2.3.1.2-1
3,387,097	2	DVD-Audio MRI-13-15 Fig. 6.2-1 Fig. 6.4-1 AU 7-56 Fig. 7.2.3.1-1
3,387,429	3	DVD-Audio MRI-13 Fig. 6.2-1 AU 7-56, 64 Fig. 7.2.3.1-1 Fig. 7.2.3.1.2-1

3,387,461	2	DVD-Audio MRI-13 Fig. 6.2-1 MRI-26, 27 Fig. 8.4-1 Fig. 8.5-1
3,388,258	2	DVD-Audio AU5-2 Fig.5-1 AU7-6~9 AUX-C2 Table C.1-1
3,389,988	2	DVD-R/RW Ver.1. 1 3.4.1.4 Fig. 3.4.1.4-1 Commercially Essential
3,389,989	2	DVD-R/-RW Ver.1. 1 3.4.1.4 Fig. 3.4.1.4-1 Commercially Essential
3,389,992	2	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	2	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	2	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	2	DVD-R/-RW Ver.1. 1 3.4.1, 3.4.1.1, 3.4.1.4 Table 3.4.1.4.1-1

**Warner Bros. Home Entertainment Inc.  
Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
2,883,735	1	DVD-Video/Audio VI3-55 3.3.9 algorithm 1 VI4-39, 51 to 53 4.2.1, Table 4.2.1-1 Table 4.2.1-3 VI5-3 5.1, Fig 5.1-1 VIX-23 Annex B.1
2,887,900	1	DVD-Video/Audio, Video recording VI3-31 Fig3.3.6.2-1 VI4-73, 157, 161 4.2.6 4.6.1.2, Table 4.6.1.2-1 VIX-76 Table N-1
2,892,159	30	DVD-Video VI4-48, 52 to 57 4.2.1 (RBP516 to 579), Table 4.2.1-2, -4 VIX-29 to 38 Annex D, E
2,925,328	1	DVD-Video/Audio, Video Recording VI4-39, 42 4.2.1, Table 4.2.1-1 VI5-40, 41 5.4.1.2 Table 5.4.1.2-1
2,948,911	1	DVD-Video VIX-37, 40

3,012,335	5	DVD-Video 4.1.1 (RBP 34 to 37) 4.6.1.2 (0) Annex U
3,272,364	1	DVD-Video/Video recording/Audio Fig 3.3.12.5-1 Tables 5.4.1.2-1, 5.4.2.3-1
3,502,308	1	DVD-Video 4.1.1 (RBP 34 to 37) 4.6.1.2(0) Annex U. U.4 U.5 U.6
3,007,689	1	DVD-ROM/Video VI4-22 Annex G G.1
3,071,828	15	DVD-ROM PH40, 47, 49 Fig.3.2.7-1 Fig.3.2.8-1
3,333,350	6	DVD-ROM PH-50 3.2.9 Fig.3.2.9-1
3,103,505	5	DVD-RAM PH2-17 PH5-1~11 Fig.5.2.1.1-1
3,339,539	8	DVD-ROM/-RAM/-RW/-R 3.3, 3.3-1 Fig. 3.3-1 3.3.2 Fig.3.3-2 Table 3.3-1 3,3-2

**Panasonic/Toshiba  
Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
3,007,689	1	DVD-ROM/Video VI4-22 Annex G G.1
3,071,828	15	DVD-ROM PH40, 47, 49 Fig.3.2.7-1 Fig.3.2.8-1
3,333,350	6	DVD-ROM PH-50 3.2.9 Fig.3.2.9-1

**Panasonic/Mitsubishi  
Essential DVD Playback Patents (Japan)**

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



**Hitachi/Panasonic/Toshiba  
Essential DVD Playback Patents (Japan)**

Japanese Patent No.	Claim	Reference to DVD Specification
3,339,539	8	DVD-ROM/-RAM/-RW/-R 3.3, 3.3-1 Fig. 3.3-1 3.3.2 Fig.3.3-2 Table 3.3-1 3,3-2