

Exhibit B4 to the CD-RW Disc Patent License Agreement

Essential Ricoh patents relevant to CD-RW disc / CD – RW part

Licensor's Ref. No.	Priority Document/ Priority Date	U.S. Patent (PS) or Application (A)/ Expiration Date	JP Patent (PS) Publication (PUB) Prov. Publ. (PPU) or Application (A)/ Expiration Date	Title
AP96-006	JP95-89464/ 14.04.1995 JP95-201021/ 07.08.1995 JP95-232547/ 11.09.1995 JP96-85307/ 08.04.1996	PS 5,761,179/ 12.04.2016	PUB 97-138947/ 08.04.2016	Data recording/regenerating method. Data recording / regenerating apparatus and data. Recording medium.
AP96-006A	JP95-89464/ 14.04.1995 JP95-201021/ 07.08.1995 JP95-232547/ 11.09.1995 JP96-85307/ 08.04.1996	PS 5,740,149/ 29.01.2017	PUB 97-219021/ 08.04.2016	Data recording / regenerating method. Data recording / regenerating apparatus and data. Recording medium.
	JP 7-232546/ 11.09.1995 JP 8-088095/ 10.04.1996	PS 5,790,505/ 09.01.2016		Optical data recording / reproducing method and apparatus for determining the optimum recording power.

All corresponding patent applications, patents divisions, continuations and reissues based upon any of the patent applications or patents of this list are considered to be included as an integral part of this list.