Title (en)

HIGH DATA RATE OPTICAL TAPE RECORDER.

Title (de)

OPTISCHES BANDAUFZEICHNUNGSGERÄT MIT HOHER DATENRATE.

Title (fr)

MAGNETOPHONE OPTIQUE A DEBIT DE DONNEES ELEVE.

Publication

EP 0647345 A4 19941121 (EN)

Application

EP 93910629 A 19930422

Priority

- US 9303602 W 19930422
- US 87753592 A 19920501

Abstract (en)

[origin: WO9322765A1] The optical tape recorder of the present invention is capable of archiving data at rates in excess of 400 megabits per second by concurrently writing or reading a plurality of data tracks in each data trace. A read-write module (102) outputs an illumination beam (104) comprised of combined multiple write beams (channels), a read beam and an autofocus beam. Optics within the read-write module spatially combine and accurately position the plurality of beams with respect to each other to form the multi-beam illumination beam (104). A read-write head (106) comprised of a synchronized scanning transmissive polygon (110) and rotating lens wheel (112) scans the multi-beam illumination beam (104) across a recording media (108) to read or write multi-channel data tracks. An autofocus system is also included to ensure that the multi-beam illumination beam (104) is accurately focused on the recording media (108).

IPC 1-7

G11B 7/12; G11B 7/135; G11B 7/00

IPC 8 full level

G02B 26/10 (2006.01); **G11B 7/003** (2006.01); **G11B 7/09** (2006.01); **G11B 7/12** (2012.01); **G11B 7/135** (2012.01); **G11B 7/14** (2006.01)

CPC (source: EP)

G11B 7/0031 (2013.01); **G11B 7/135** (2013.01); **G11B 7/1362** (2013.01); **G11B 7/14** (2013.01)

Citation (search report)

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- See references of WO 9322765A1

Designated contracting state (EPC)

CH DE DK FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9322765 A1 19931111; AU 4105493 A 19931129; CA 2134325 A1 19931111; CA 2134325 C 20000125; EP 0647345 A1 19950412; EP 0647345 A4 19941121; FI 945104 A0 19941031; FI 945104 A 19941031; IL 105524 A 19980924; JP 3470297 B2 20031125; JP H07507177 A 19950803; MX 9302530 A 19940429

DOCDB simple family (application)

US 9303602 W 19930422; AU 4105493 A 19930422; CA 2134325 A 19930422; EP 93910629 A 19930422; FI 945104 A 19941031; IL 10552493 A 19930427; JP 51931293 A 19930422; MX 9302530 A 19930429