

Title (en)

CARTRIDGE TRANSPORT ASSEMBLY AND METHOD OF OPERATION THEREOF

Publication

EP 0446227 A4 19920722 (EN)

Application

EP 89912707 A 19891107

Priority

- US 26938988 A 19881110
- US 26939188 A 19881110

Abstract (en)

[origin: WO9005362A1] An automated magnetic tape cartridge library system includes a cabinet (24) having a door (26) removable and pivotally connected thereto. The cabinet (24) houses a plurality of tape drives (56A-56E) a plurality of racks (70) wherein magnetic tape cartridges are stored. A cartridge transport assembly (100) serves to retrieve a cartridge from a rack (70) and to load the cartridge into a target tape drive (56), and vice versa. Movement of the cartridge transport assembly (100) along X, Y, and Z rectangular coordinate axes is effected by X, Y, and Z displacement systems (104, 106, 108). The cartridge transport assembly (100) and the X, Y, and Z displacement systems (104, 106, 108) are all mounted on the removable, pivotal door (26). The cartridge transport assembly (100) includes a pair of engagement fingers (402A, 402B) which engage a selected cartridge upon contact with the cartridge. In an engagement mode, engagement fingers (402A, 402B) are configured and oriented to engage notches provided on opposite edges of standard 8 mm magnetic tape cartridge such that, upon engagement, the cartridge is locked between the fingers (402A, 402B) without the need of further locking mechanisms. Portions of the linkage means of the cartridge transport assembly (100) dually function as ram elements (452A, 452B) for closing a tape drive door (60) once a cartridge is loaded into a target tape drive (56).

IPC 1-7

G11B 15/68

IPC 8 full level

G11B 15/68 (2006.01)

CPC (source: EP)

G11B 15/6835 (2013.01)

Citation (search report)

- No further relevant documents have been disclosed.
- See references of WO 9005362A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 9005362 A1 19900517; EP 0446227 A1 19910918; EP 0446227 A4 19920722

DOCDB simple family (application)

US 8904884 W 19891107; EP 89912707 A 19891107