

Title (en)

DIRECT CONTACT DISK FOR VERTICAL MAGNETIC DATA RECORDING

Title (de)

DIREKT KONTAKTIERBARE PLATTE FÜR VERTIKALE MAGNETISCHE DATENSPEICHERUNG

Title (fr)

DISQUE A CONTACT DIRECT POUR ENREGISTREMENT MAGNETIQUE VERTICAL DE DONNEES

Publication

EP 0783747 A1 19970716 (DE)

Application

EP 95921765 A 19950526

Priority

EP 9502023 W 19950526

Abstract (en)

[origin: DE19616347A1] A disk for vertical magnetic data recording, in which the writing/reading processes are carried out in a direction perpendicular to the disk surface and which may be directly contacted by a write/reading head, consists of a substrate (1) made of monocrystalline silicon whose surface (6) forms a layer of porous silicon (2). The layer of porous silicon (2) contains pores (3) that are substantially perpendicular to the surface (6) of the substrate (1) and are filled with a magnetisable material (4). In order to produce such a disk, the following steps are required: producing a substrate made of monocrystalline silicon, producing a layer of porous silicon at the surface of the substrate with pores that are substantially perpendicular to the surface of the substrate and filling the pores with a magnetisable material. With this disk, the write/reading head may directly contact the silicon substrate surface without adhering in its resting state to the porous surface of the disk, and may slide over said surface without causing abrasion phenomena that could affect the reliability of individual recording disks and of the recording disk system as a whole.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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