

Title (en)

DEVICE AND METHOD FOR INFORMATION MASS STORAGE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR MASSENSPEICHERUNG VON INFORMATIONEN

Title (fr)

DISPOSITIF ET PROCEDE DE STOCKAGE DE MASSE D'INFORMATION

Publication

EP 2153440 A2 20100217 (FR)

Application

EP 08805510 A 20080425

Priority

- FR 2008000595 W 20080425
- FR 0703093 A 20070427

Abstract (en)

[origin: WO2008145864A2] The invention relates to a device for information mass storage that comprises: a substrate (30); an electrically conducting tip for atomic-force microscopy (10) provided above the surface (31) of the substrate (30) and in electric contact with the latter; and a voltage generator (41) for applying a potential difference between said tip (10) and said substrate (30). The device is characterised in that the substrate (30) includes a surface (31) made of a material having an electric conductivity both of the electronic and ionic type, and in that said generator (41) is adapted for applying a potential difference sufficiently high for triggering an oxidation-reduction reaction of said material, thus modifying the electric conductivity of the surface of the substrate (30). The device (1) can be used for information mass storage.

IPC 8 full level

G11B 5/09 (2006.01)

CPC (source: EP US)

G11B 9/04 (2013.01 - EP US); **Y10T 428/32** (2015.01 - EP US)

Citation (search report)

See references of WO 2008145864A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2915616 A1 20081031; FR 2915616 B1 20100820; EP 2153440 A2 20100217; JP 2010525501 A 20100722; US 2010195475 A1 20100805; US 8385184 B2 20130226; WO 2008145864 A2 20081204; WO 2008145864 A3 20090305

DOCDB simple family (application)

FR 0703093 A 20070427; EP 08805510 A 20080425; FR 2008000595 W 20080425; JP 2010504789 A 20080425; US 59779108 A 20080425