Title (en)

MEMORY DATA WRITABLE AND READABLE BY MICROPOINTS, BOX STRUCTURES AND THE MANUFACTURING METHOD

Title (de)

DURCH MIKROPOINTS SCHREIBBARE UND LESBARE SPEICHERDATEN, BOX-STRUKTUREN UND HERSTELLUNGSVERFAHREN

Title (fr)

MEMOIRE DE DONNEES INSCRIPTIBLE ET LISIBLE PAR MICROPOINTES, STRUCTUREE EN CAISSONS, ET PROCEDE DE FABRICATION

Publication

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Application

EP 07729586 A 20070529

Priority

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Abstract (en)

[origin: WO2007138035A1] This invention concerns data storage memory, writable and readable using at least one writing (60) or reading micropoint which touches on a contact point with a dedicated writing or reading point on the surface of a substrate, either to modify the physical state of the zone, in reading or erasure mode, or to determine the physical state of the zone since the data stored in the zone is defined by the physical state of the zone. The surface of the substrate is subdivided into aggregated individual *batches (75) composed of one layer of a first sensitive material whose state can be modified by the application of a writing micropoint, each *batch (75) being surrounded by a box (80) made of a second material with little or no sensitivity to the application of the writing micropoint, with this second material completely separating the individual *batches from each other. The material of the boxes is the same as that of the *batches although they are differentiated by differentiating impurities. The organization into *batches and into boxes may be achieved using photolithography or through a process of self-organization of materials that can be spontaneously agglomerated into *batches.

IPC 8 full level

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