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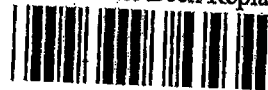
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(54) Title: METHOD FOR PARALLEL WRITING AND READING OF DATA IN AN OPTICAL MEMORY, A WRITING/READING
DEVICE FOR USE BY THE METHOD AND USES OF THE METHOD AND THE WRITING/READING DEVICE

(57) Abstract

In a method for parallel writing and reading of data in an optical memory, wherein the optical memory comprises one or more microlenses for accessing of a memory medium, individually addressable elements are activated which are arranged in one- or two-dimensional matrices in a write/read device, in such a manner that the activation of an element physically influences one or more localized areas in a data-carrying layer in the memory for writing and reading of data-carrying structures in the localized area, writing and reading being performed on the basis of a relationship between the geometric location of the element in the matrix and the position of the localized area(s) in the data-carrying layer of the memory. A write/read device comprises individually addressable elements which are arranged in one- or two-dimensional matrices, the addressable element being arranged to be activated in order to physically influence one or more of the above-mentioned localized areas. Use for, amongst other things, writing and reading in optical memories which consist of 1-100 microlenses with associated data-carrying layers and optical memories consisting of a transparent spherical particle, on one side of which is arranged a transparent layer to which is applied a data-carrying film.

DEFINITION OF BEAM INCIDENCE
DIRECTION (θ, ϕ)
(STANDARD POLAR CO-ORDINATES)

