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Hendriks et al.

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(54) **OPTICAL SCANNING DEVICE**

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(52) **U.S. Cl.** **369/112.02; 369/112.24**

(58) **Field of Search** 369/112.02, 112.23, 369/112.24, 112.27, 94, 44.23, 53.35

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(57) **ABSTRACT**

An optical scanning device for scanning an optical record carrier. A high numerical aperture objective lens system includes at least a first lens element (12) arranged to converge the beam to a certain extent and a second lens element (13) arranged to converge the beam to a greater extent. The device comprises a spherical aberration compensation optical subsystem including an electro-optical element for altering an optical path length in a spherical aberration generating region, which region is located in the optical path between the first lens element and the location of the record carrier in the device.

21 Claims, 5 Drawing Sheets

