

Title (en)  
OPTICAL PICKUP DEVICE

Title (de)  
OPTISCHE ABTASTVORRICHTUNG

Title (fr)  
SYSTEME OPTIQUE DE SAISIE

Publication  
**EP 1062663 A1 20001227 (EN)**

Application  
**EP 99907875 A 19990305**

Priority  
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Abstract (en)  
[origin: WO9946767A1] Data can be read at high speed from an optical disk (20) by using a plurality of light spots, and data can be written in the optical disk (20) by using a single light spot without any practical problem. In reading data from the optical disk (20), a diffraction grating (13) is inserted between a semiconductor laser (12) and an objective lens (15). A laser beam from the semiconductor laser (12) is diffracted by the diffraction grating (13) to generate diffracted light beams (16b, 16c) and form a plurality of light spots (32a, 32b, 32c) on a plurality of tracks (3) of the optical disk (20). In writing data in the optical disk (20), the diffraction grating (13) is exited from between the semiconductor laser (12) and objective lens (20). Only a non-diffracted light beam (16a) is incident upon the objective lens (15) to form a single light spot (32a) on the optical disk (20).

IPC 1-7  
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IPC 8 full level  
**G11B 7/125** (2006.01); **G11B 7/135** (2006.01); **G11B 7/0045** (2006.01); **G11B 7/14** (2012.01)

CPC (source: EP KR)  
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Citation (search report)  
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