

Title (en)  
LOW PROFILE OPTICAL HEAD

Title (de)  
OPTISCHER KOPF MIT NIEDRIGEM PROFIL

Title (fr)  
TETE OPTIQUE A PROFIL BAS

Publication  
**EP 1254453 A2 20021106 (EN)**

Application  
**EP 00982448 A 20001205**

Priority  
• US 0033014 W 20001205  
• US 45710499 A 19991207  
• US 54065700 A 20000331

Abstract (en)  
[origin: WO0143126A2] An optical head of a type useable in a optical disk reader/writer is provided. The optical head has a low profile, e.g., in a vertical direction parallel to the disk spin axis, such as less than about 5mm preferably less than about 3mm. Substantially all components of the optical system, including a laser source, objective lens, intervening optics and photo detector are provided in the optical head and mounted in a fixed position with respect to one another. Substantially all optical components of the optical head are moved as a unit, e.g., during tracking and/or focusing. Preferably, the optical head is fabricated using wafer scale and/or stacking technologies, e.g., stacking substantially planar components to achieve the final optical head configuration.

IPC 1-7  
**G11B 7/12**

IPC 8 full level  
**G11B 7/09** (2006.01); **G11B 7/12** (2006.01); **G11B 7/125** (2006.01); **G11B 7/13** (2006.01); **G11B 7/135** (2006.01); **G11B 7/22** (2006.01)

CPC (source: EP)  
**G11B 7/123** (2013.01); **G11B 7/22** (2013.01)

Citation (search report)  
See references of WO 0143126A2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT

DOCDB simple family (publication)  
**WO 0143126 A2 20010614; WO 0143126 A8 20011115**; AU 1947501 A 20010618; CA 2358913 A1 20010614; CN 100392736 C 20080604; CN 1421034 A 20030528; EP 1254453 A2 20021106; JP 2003523036 A 20030729; MX PA01008041 A 20030801; TW 550561 B 20030901

DOCDB simple family (application)  
**US 0033014 W 20001205**; AU 1947501 A 20001205; CA 2358913 A 20001205; CN 00803534 A 20001205; EP 00982448 A 20001205; JP 2001543729 A 20001205; MX PA01008041 A 20001205; TW 89125819 A 20010216