

(19) World Intellectual Property Organization
International Bureau



162162

(43) International Publication Date
5 July 2001 (05.07.2001)

PCT

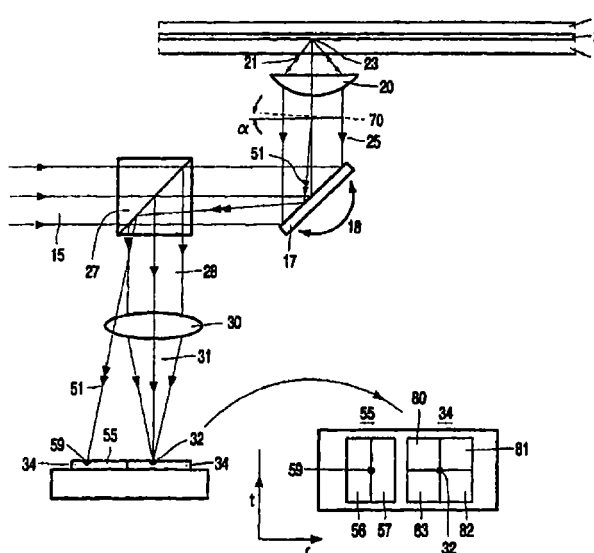
(10) International Publication Number
WO 01/48742 A1

- (51) International Patent Classification⁷: G11B 7/085, 7/13, 7/135 (72) Inventor: VREHEN, Joris, J.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (21) International Application Number: PCT/EP00/12625 (74) Agent: COBBEN, Louis, M., H.; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (22) International Filing Date:
13 December 2000 (13.12.2000) (81) Designated States (*national*): JP, KR, SG.
- (25) Filing Language: English (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- (26) Publication Language: English
- (30) Priority Data: 99204550.0 24 December 1999 (24.12.1999) EP Published:
— With international search report.
- (71) Applicant: KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



C00001

(54) Title: OPTICAL SCANNING UNIT COMPRISING A DETECTION SYSTEM FOR DETECTING THE POSITION OF A MOVABLE ELEMENT WITHIN THE UNIT



(57) Abstract: In an optical unit for scanning an information plane (3) having a track structure (5) by means of a scanning spot (23), which unit is provided with a pivotable mirror (17) for fast movement of the scanning spot perpendicular to the track direction (t), the angular position of the mirror is determined by means of a weakly reflecting element (70), arranged in the path of the scanning beam (15), which reflects part of the scanning beam to a position detector (55) having two detector elements (56, 57). By arranging the reflecting surface of the element (70) skew in the scanning beam, the position detector (55) can be arranged in the same plane as the information detector (34) of the optical unit.

WO 01/48742 A1