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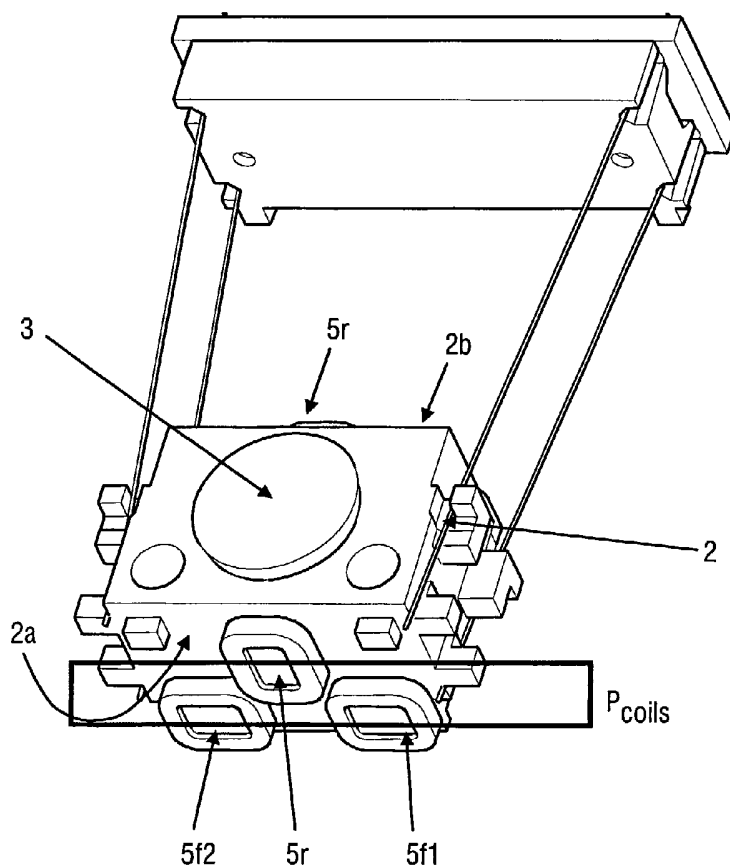
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[Continued on next page]

(54) Title: 3D ACTUATOR FOR OPTICAL DISC SYSTEM



(57) Abstract: In short the invention may be described as follows: An optical pick-up actuator (1) has a lens holder (2). The lens holder has tracking (5r) and focusing (5f) coils which substantially extend in two parallel planes at a side of the lens holder (2). A magnet system (7) is arranged separately from the lens holder and extends beyond said planes, said magnet system cooperating with the tracking and focusing coils, the coil systems being arranged for effecting tilt through cooperation with the magnet system. Preferably, a coil system is provided at each of two opposite sides of the lens holder.

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Internal Application No
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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, IBM-TDB, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 986 983 A (SIMPSON CHARLES J ET AL) 16 November 1999 (1999-11-16) column 3 -column 5; figures 2-5 ---	1-14
X	US 2002/006090 A1 (KAWANO NORIYUKI) 17 January 2002 (2002-01-17) page 3; figures 1-4 ---	1-14
A	US 6 344 936 B1 (WAKABAYASHI KANJI ET AL) 5 February 2002 (2002-02-05) the whole document --- -/--	1-14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NAGASATO M ET AL: "DEVELOPMENT OF TWO-AXIS ACTUATOR WITH SMALL TILT ANGLES FOR ONE-PIECE OPTICAL HEADS" JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, vol. 35, no. 1B, 1996, pages 392-397, XP000729840 ISSN: 0021-4922 the whole document ----	1-14
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