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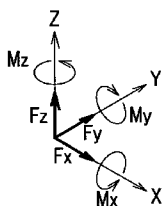
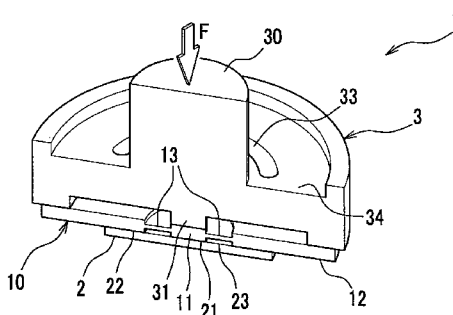
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[Continued on next page]

(54) Title: FORCE SENSOR USING A SEMICONDUCTIVE SUBSTRATE



(57) Abstract: A force sensor 1 includes: a force sensor chip 2 including an action portion 21, a connecting portion 23 on which strain resistive elements are disposed, and a support portion 22 for supporting the action portion 21 and the connecting portion 23; an attenuator 3 including an input portion 30 to which an external force is input, a fixing portion 32 for fixing the force sensor chip 2, and a transmission portion 31 for attenuating the external force and transmitting the attenuated external force to the action portion 21; a first glass member 11 disposed between the action portion 21 and the transmission portion 31 and a second glass member 12 disposed between the support portion 22 and the fixing portion 32, through which glass members 11, 12 the force sensor chip 2 and the attenuator 3 are joined. A single or more glass beams 13 joins the first glass member 11 and the second glass member 12 together as a single member.



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G01L

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 526 700 A (H.A. AKEEL) 18 June 1996 (1996-06-18) column 4, line 9 - line 44; figures -----	1,9,10
A	EP 1 653 208 A2 (HONDA MOTOR CO., LTD.) 3 May 2006 (2006-05-03) page 11, line 29 - line 54; figures 11,12 -----	1,9,10
A	US 4 454 771 A (M. SHIMAZOE ET AL.) 19 June 1984 (1984-06-19) abstract; figures 1a,4a -----	1,9,10



Further documents are listed in the continuation of Box C.



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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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