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(54) **Title**: COMPRESSION SENSOR GASKET AND METHOD OF CONSTRUCTION

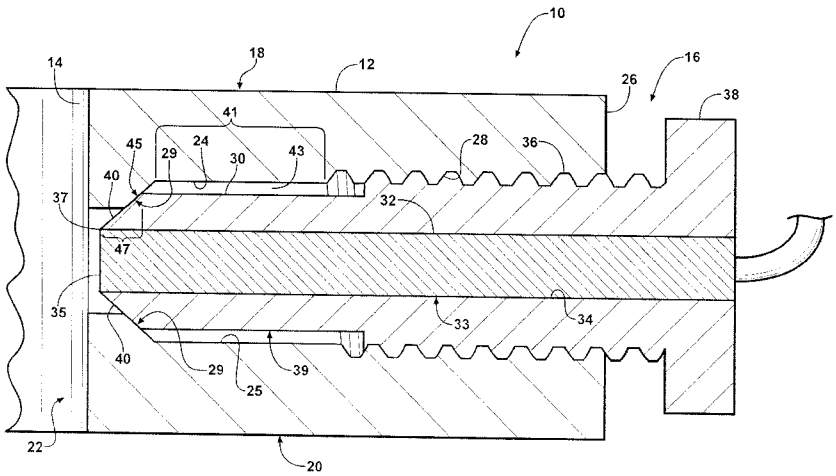


FIG. 2

(57) **Abstract**: A compression sensor gasket and method of construction thereof is provided. The gasket has a body with opposite sealing surfaces and a through passage configured to align with a chamber to be sealed. A through opening extends between the sealing surfaces to the through passage and has an annular chamfered surface. A pressure sensor assembly having a housing and a pressure sensor extending at least partially through the housing is disposed in the though opening. The pressure sensor has a pressure sensor tip configured to sense pressure within the chamber to be sealed. The housing has an outer annular tapered surface configured to register in radial alignment with the chamfered surface to facilitate forming a hermetic seal between the pressure sensor assembly and the gasket body.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

F16J 15/06(2006.01)i, G01L 19/00(2006.01)i, F02D 35/00(2006.01)i

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)

F16J 15/06; F02D 35/00; F02D 45/00; G01L 23/22; G01L 7/06; G01M 15/00; G01M 15/06

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

Korean utility models and applications for utility models
Japanese utility models and applications for utility models
(Chinese Patents and application for patent)

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

eKOMPASS(KIPO internal) & Keywords: gasket, pressure, sensor, housing, tapered and hermetic.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 7096725 B2 (DANIEL J. VIALARD) 29 August 2006 See figures 3-5 and columns 4-6.	14,15 1-13,16,17
A	US 7004472 B2 (ARMIN DIEZ et al.) 28 February 2006 See figures 1-2 and columns 3-5.	1-17
A	US 5659132 A1 (GARY J. NOVAK and JOHN F. BRADY) 19 August 1997 See figures 1-2 and columns 3-4.	1-17
A	US 6945117 B2 (CLARK D. BOYD et al.) 20 September 2005 See figures 1-5 and columns 2-4.	1-17
A	JP 2002-349336 A (TOYOTA MOTOR CORP.) 04 December 2002 See figures 1-2 and abstract.	1-17

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
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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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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Information on patent family members

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