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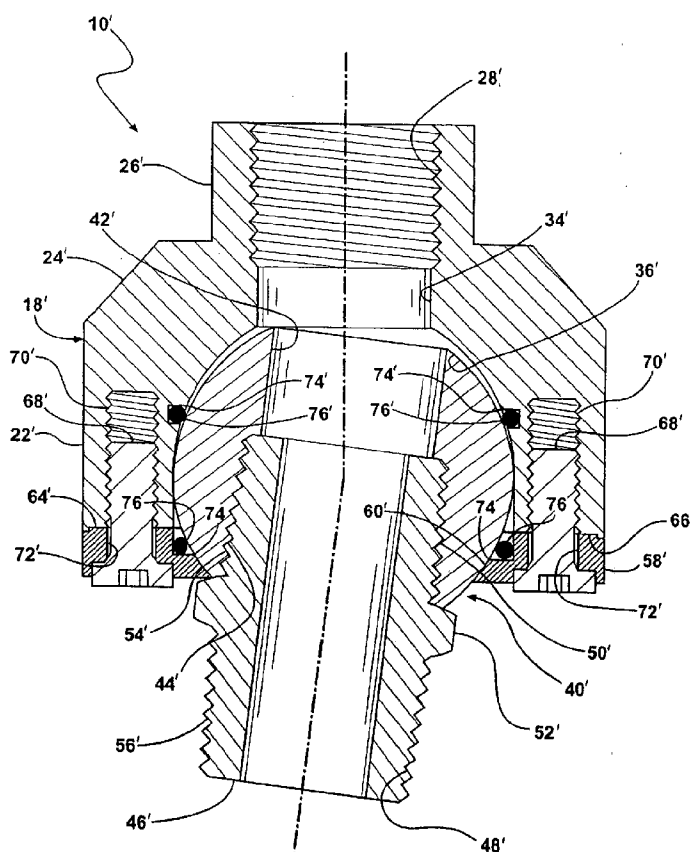
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(54) Title: BALL JOINT ASSEMBLY



(57) Abstract: A ball joint assembly includes a housing that defines a longitudinal axis and a channel extending therethrough. The housing also includes a socket which is coaxial with the longitudinal axis and is in fluid communication with the channel. The socket defines a socket radius. The ball joint assembly includes a ball that is receivable by the socket. The ball defines a ball channel extending therethrough. The ball joint assembly includes a plate that is fixedly secured to the housing to secure the ball and the channel. A plurality of seals extend about the ball preventing air from passing through the channel around the ball. Plates having rims of different thicknesses will provide different levels of tightness between the ball and the socket to vary the amount of freedom of movement the ball has with respect to the housing.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: F16C 11/06(2006.01)

USPC: 403/39

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)

U.S. : 403/39,34,35,37,38; 285/261,266,270,271

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2,631,048 (PALMER) 10 March 1953 (10.03.1953), Figures 1-2.	1-20
X	US 908,414 (MELLIN) 29 December 1908 (29.12.1908), Figures 3-4.	1-20



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