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(54) **Title:** FULLY FLOATING, SELF -ALIGNING, SELF-ADJUSTING GIMBAL ASSEMBLY FOR AN ACTIVE HUMAN-MACHINE INTERFACE

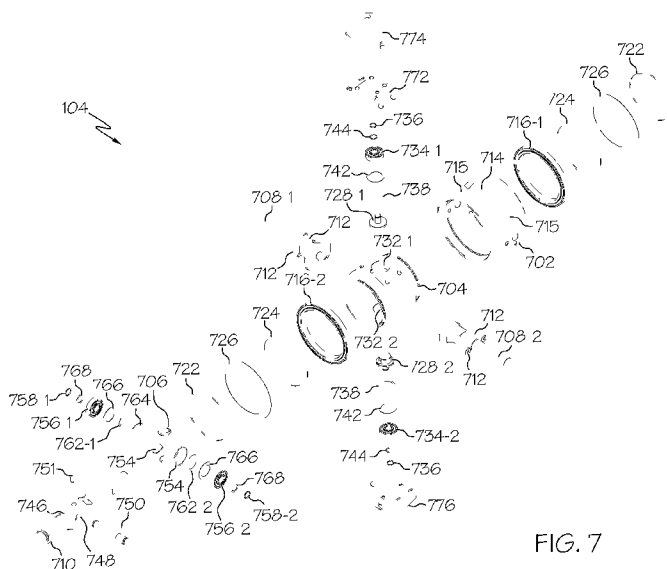


FIG. 7

(57) **Abstract:** A human-machine interface assembly is implemented with a gimbal assembly (104) that includes a roll hub (702), a pitch hub (704), and a main hub (706). The gimbal assembly further includes a plurality of bearings (716), and is mounted via a plurality of bearing sets, that are each disposed in a free floating manner. As a result, each of the bearings is self-aligning and self-adjusting when the gimbal assembly is assembled and mounted. The gimbal assembly additionally includes a plurality of integral stops that mechanically limit movement of a user interface to predetermined pitch and roll angles.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 4 818 124 A (BRANDENSTEIN MANFRED [DE] ET AL) 4 April 1989 (1989-04-04) figure 2 column 2, line 34 - line 43 column 3, line 7 - line 13 -----	1-6
A	US 3 365 975 A (HATHAWAY MERWIN L) 30 January 1968 (1968-01-30) figures 2-4 column 2, line 1 - line 29 -----	1-10
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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INTERNATIONAL SEARCH REPORT

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