

Title (en)

GAS BEARING-MOUNTED ARRANGEMENT OF BODIES THAT CAN BE DISPLACED RELATIVE TO ONE ANOTHER

Title (de)

GASGELAGERTE ANORDNUNG VON RELATIV ZUEINANDER BEWEGBAREN KÖRPERN

Title (fr)

SYSTEME DE CORPS POUVANT ETRE DEPLACES LES UNS PAR RAPPORT AUX AUTRES, CONSERVE EN ATMOSPHERE CONTROLEE

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Application

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Abstract (en)

[origin: WO2006040073A1] The invention relates to a gas bearing-mounted arrangement of bodies, which can be displaced relative to one another, with an inner body (1; 101; 201; 301; 401) having a bearing surface (14'; 114'; 214'; 314'; 414') that, at least in sections, extends in a curved manner, and with an outer body (3; 203; 303; 403), which at least partially surrounds at least the curved section of the bearing surface (14'; 114'; 214'; 314'; 414') of the inner body (1; 101; 201; 301; 401). The inner body (1; 101; 201; 301; 401) is, in its bearing surface (14'; 114'; 214'; 314'; 414'), provided, at least in areas, with microholes (140, 141, 142, 143; 140'; 240; 350, 351, 352, 353; 450, 451, 452, 453), which define a gas bearing between the inner body (1; 101; 201; 301; 401) and the outer body (3; 203; 303; 403), these microholes (140, 141, 142, 143; 140'; 240; 350, 351, 352, 353; 450, 451, 452, 453) leading into a gas supply structure of the inner body (1; 101; 201; 301; 401). The invention is characterized in that the microholes (140, 141, 142, 143; 140'; 240; 350, 351, 352, 353; 450, 451, 452, 453) are made in the inner body (1; 101; 201; 301; 401) starting from the side of the bearing surface (14'; 114'; 214'; 314'; 414').

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