

Title (en)
DISPLACEMENT MACHINE ACCORDING TO THE SPIRAL PRINCIPLE

Title (de)
VERDRÄNGERMASCHINE NACH DEM SPIRALPRINZIP MIT BEIDSEITIGER LAGERANORDNUNG

Title (fr)
MACHINE DE DÉPLACEMENT DE MATIÈRE FONCTIONNANT SELON LE PRINCIPE DE LA SPIRALE

Publication
EP 2179138 B1 20150909 (DE)

Application
EP 08757302 A 20080710

Priority
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• CH 11962007 A 20070726

Abstract (en)
[origin: WO2009012606A2] In a displacement machine of spiral design, the displacement body (2) has a disc (3) which carries a protruding displacement element (4, 5) on each side. The hub (11) of the disc (3) is mounted by means of a hub bearing (10) on an eccentric disc (9) which is part of a driven drive shaft (6). Said drive shaft (6) is mounted within a housing (1) by means of a first and second bearing (7, 8). By arranging these bearings in receptacles (48a, 48b) which project into the conveying chambers of the housing, said two bearings (7, 8) lie close to the eccentric disc (9). The drive shaft (6) extends through a wall (22) of the housing (1) and carries a drive disc (23) at its free end which lies outside the housing (1). In the region of this drive disc (23), the drive shaft (6) is supported by means of a third bearing (24) which is held in a supporting part (25) which protrudes away from the housing (1).

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Citation (examination)
• EP 0201774 A1 19861120 - BBC BROWN BOVERI & CIE [CH], et al
• EP 0807759 A2 19971119 - IWATA AIR COMPRESSOR MFG [JP]
• WO 0049275 A1 20000824 - SPINNLER FRITZ [CH]

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