

Title (en)
Hinge for a swash plate

Title (de)
Gelenkvorrichtung für eine Taumelscheibe

Title (fr)
Dispositif d'articulation pour un plateau en biais

Publication
EP 1275846 A3 20040414 (EN)

Application
EP 02013643 A 20020619

Priority
JP 2001210705 A 20010711

Abstract (en)
[origin: EP1275846A2] There is provided a variable capacity compressor which is capable of maintaining excellent control stability even when carbon dioxide is used as refrigerant. The variable capacity compressor includes a thrust flange rigidly fitted on a shaft, for rotating in unison with the shaft as the shaft rotates, and a swash plate fitted on the shaft in a manner tiltable with respect to a plane perpendicular to the shaft and connected to the thrust flange via a linkage, for rotating in unison with the thrust flange as the thrust flange rotates. An inclination angle of the swash plate is changed according to changes in pressure within a crankcase in which the swash plate is received, to change the stroke length of each piston connected to the swash plate. The linkage comprises a link pin fixed to one of the swash plate and the thrust flange, and a guide slot formed through the other of the swash plate and the thrust flange and extending in a form of an arc, for engagement with the link pin. An arc drawn by a center line of the guide slot has a constant radius of curvature. <IMAGE>

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IPC 8 full level
F04B 27/08 (2006.01); **F04B 27/10** (2006.01)

CPC (source: EP)
F04B 27/1072 (2013.01)

Citation (search report)
• [X] EP 0623744 A1 19941109 - SANDEN CORP [JP]
• [X] PATENT ABSTRACTS OF JAPAN vol. 015, no. 336 (M - 1151) 26 August 1991 (1991-08-26)
• [X] PATENT ABSTRACTS OF JAPAN vol. 010, no. 349 (M - 538) 26 November 1986 (1986-11-26)

Cited by
US8152483B2; WO2007019903A1; US7021193B2; US6860188B2

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