

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 B1 20060816 (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>

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

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

Cited by  
US8152483B2; WO2007019903A1; US7021193B2; US6860188B2

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
**EP 1275846 A2 20030115; EP 1275846 A3 20040414; EP 1275846 B1 20060816**; DE 60213927 D1 20060928; DE 60213927 T2 20070329; JP 2003021055 A 20030124

DOCDB simple family (application)  
**EP 02013643 A 20020619**; DE 60213927 T 20020619; JP 2001210705 A 20010711