

Title (en)
VARIABLE DISPLACEMENT TYPE RECIPROCATING COMPRESSOR

Title (de)
HUBKOLBENVERDICHTER MIT VARIABLER VERDRÄNGUNG

Title (fr)
COMPRESSEUR ALTERNATIF DE TYPE À DÉPLACEMENT VARIABLE

Publication
EP 2354548 A1 20110810 (EN)

Application
EP 09829040 A 20091120

Priority
• JP 2009069713 W 20091120
• JP 2008299351 A 20081125

Abstract (en)
The power conversion mechanism of a variable displacement reciprocating compressor includes a joint shaft (54) that is fitted to a drive shaft (30) through a bearing (56) and supported by an inner circumferential face of a support hole (58) formed in the cylinder block (20) so as not to be relatively rotatable but to be slidable relative to the inner circumferential face; a joint case (66) that is integrally and tiltably formed in the conversion mechanism (38); and a plurality of balls (74) rollably held between JS-side protrusions that are integrally formed in the joint shaft (54) and JC-side protrusions (62) that are integrally formed in the join case (66). The variable suction throttle mechanism of the compressor uses the sliding movement of the joint shaft (54) to change air-flow resistance in a valve chamber (101) communicating with the support hole (58).

IPC 8 full level
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CPC (source: EP US)
F04B 27/1072 (2013.01 - EP US); **F04B 27/1081** (2013.01 - EP US)

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