

Title (en)

Capacity control valve for variable displacement compressor

Title (de)

Regelventil für einen Verdichter variabler Verdrängung

Title (fr)

Soupape de commande pour un compresseur à capacité variable

Publication

EP 1411243 A1 20040421 (EN)

Application

EP 03023513 A 20031015

Priority

JP 2002303998 A 20021018

Abstract (en)

A valve seat-forming element (3) provided in a refrigerant passage, has parallelly extending valve hole (5) and through hole (6) that constantly connect a discharge chamber and a crank chamber even when the capacity control valve (100) is in closed state.

IPC 1-7

F04B 27/18; **F04B 27/10**

IPC 8 full level

F04B 27/14 (2006.01); **F04B 27/10** (2006.01); **F04B 27/18** (2006.01)

CPC (source: EP US)

F04B 27/109 (2013.01 - EP US); **F04B 27/18** (2013.01 - EP US); **F04B 27/1804** (2013.01 - EP US); **F04B 2027/1827** (2013.01 - EP US); **F04B 2027/189** (2013.01 - EP US)

Citation (search report)

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- [A] EP 1164290 A2 20011219 - TOYOTA JIDOSHOKKI KK [JP]
- [A] US 6010314 A 20000104 - KOBAYASHI HISAKAZU [JP], et al
- [A] EP 1143145 A2 20011010 - TOYODA AUTOMATIC LOOM WORKS [JP]

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EP1995460A4

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1411243 A1 20040421; **EP 1411243 B1 20051005**; DE 60301775 D1 20060216; DE 60301775 T2 20060518; JP 2004137980 A 20040513; US 2004074245 A1 20040422

DOCDB simple family (application)

EP 03023513 A 20031015; DE 60301775 T 20031015; JP 2002303998 A 20021018; US 67349403 A 20030930