

Title (en)
Variable displacement compressor

Title (de)
Verdichter mit variabler Verdrängung

Title (fr)
Compresseur à déplacement variable

Publication
EP 1933031 A2 20080618 (EN)

Application
EP 07023650 A 20071206

Priority
JP 2006330899 A 20061207

Abstract (en)
A variable displacement compressor includes a compressor housing, a rotary shaft, a lug plate, a swash plate, a hinge mechanism, a supply passage and a bleed passage. The compressor housing includes a pressure control chamber having a front region which extends between the swash plate and the lug plate, and a rear region on the opposite side of the swash plate as viewed from the lug plate. The rotary shaft has an axial bleed passage which forms part of the bleed passage and an inlet which is in communication with the axial bleed passage and opened to the front region of the pressure control chamber. At least one of the swash plate and the rotary shaft has a communication passage. The front region and the rear region of the pressure control chamber are in communication with each other through the communication passage.

IPC 8 full level
F04B 27/10 (2006.01); **F04B 39/12** (2006.01)

CPC (source: EP KR US)
F04B 25/04 (2013.01 - KR); **F04B 27/08** (2013.01 - KR); **F04B 27/1036** (2013.01 - EP US); **F04B 27/1054** (2013.01 - EP US);
F04B 27/109 (2013.01 - EP US); **F04B 39/123** (2013.01 - EP US)

Citation (applicant)
JP 2004028090 A 20040129 - SANDEN CORP

Cited by
CN103807135A; US9903352B2; US9316217B2; US9309875B2; US9309874B2

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1933031 A2 20080618; **EP 1933031 A3 20110119**; JP 2008144631 A 20080626; KR 100888914 B1 20090316; KR 20080052370 A 20080611;
US 2008145239 A1 20080619

DOCDB simple family (application)
EP 07023650 A 20071206; JP 2006330899 A 20061207; KR 20070110878 A 20071101; US 95159107 A 20071206