

Title (en)

Refrigerant compressor with lubrication system.

Title (de)

Kältemittelkompressor mit Schmiersystem.

Title (fr)

Compresseur de réfrigérant avec système de lubrification.

Publication

EP 0090486 A1 19831005 (EN)

Application

EP 83300636 A 19830209

Priority

US 35208782 A 19820225

Abstract (en)

In a refrigerant compressor whose crankcase 129 is vented to compressor suction 114, a passive lubrication system has a lubrication-vent path arrangement 148 to 160 which vents the crankcase while also ensuring lubrication of the compressor's critical bearing surfaces 66, 70 using oil entrained in the refrigerant, and centrifugal action is utilized to always maintain some amount of oil in the crankcase to ensure lubrication of the critical bearing surfaces under all operating conditions while also minimizing the amount of oil permitted to circulate in the refrigerant circuit, for improved air conditioning performance.

IPC 1-7

F04B 39/02

IPC 8 full level

F04B 39/02 (2006.01); **F04B 27/08** (2006.01); **F04B 27/10** (2006.01); **F04B 27/18** (2006.01)

CPC (source: EP)

F04B 27/1036 (2013.01); **F04B 27/109** (2013.01); **F04B 2027/1813** (2013.01); **F04B 2027/1831** (2013.01); **F04B 2027/1859** (2013.01)

Citation (search report)

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- DE 2922307 A1 19791206 - HITACHI LTD
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Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

EP 0090486 A1 19831005; **EP 0090486 B1 19860730**; BR 8300880 A 19831116; CA 1176857 A 19841030; DE 3364812 D1 19860904; JP S58158384 A 19830920; JP S6310311 B2 19880305

DOCDB simple family (application)

EP 83300636 A 19830209; BR 8300880 A 19830224; CA 416223 A 19821124; DE 3364812 T 19830209; JP 3068483 A 19830225