

Title (en)

SUCTION SILENCER SYSTEM FOR A REFRIGERATION COMPRESSOR

Title (de)

ANSAUGGERÄUSCHDÄMPFERSYSTEM FÜR MOTORKÜHLVERDICHTER

Title (fr)

SYSTEME DE SILENCIEUX D'ASPIRATION POUR MOTOCOMPRESSEUR DE REFRIGERATION

Publication

EP 0890026 B1 20011128 (FR)

Application

EP 97916494 A 19970325

Priority

- FR 9700525 W 19970325
- FR 9603988 A 19960329

Abstract (en)

[origin: WO9737130A1] A suction silencer system for a refrigeration compressor is disclosed, the system includes a suction silencer (3, 4) consisting of a body (4) divided by a partition (40) into two chambers coupled together via a coupling tube (42), and a cover (3) with a loading tube (30) for feeding a coolant gas into the first chamber, and an inlet pipe (31) for connecting the second chamber to the suction portion of the cylinder head (5). The volume ratio is determined in such a way that the acoustic energy is attenuated at a frequency of around 500 Hz. A chamber (10) connected in parallel on the suction path is also used as a resonator to improve attenuation in the acoustic spectrum. The system is particularly useful in reciprocal, single-cylinder, hermetic and low-power compressors.

IPC 1-7

F04B 39/00

IPC 8 full level

F04B 39/00 (2006.01)

CPC (source: EP US)

F04B 39/0055 (2013.01 - EP US); **F04B 39/0072** (2013.01 - EP US); **F05C 2225/08** (2013.01 - EP US); **Y10S 181/403** (2013.01 - EP US)

Designated contracting state (EPC)

AT DE ES FR IT

DOCDB simple family (publication)

WO 9737130 A1 19971009; AT E209754 T1 20011215; BR 9708465 A 20000104; CN 1085786 C 20020529; CN 1215451 A 19990428; DE 69708614 D1 20020110; DE 69708614 T2 20020801; EP 0890026 A1 19990113; EP 0890026 B1 20011128; ES 2166074 T3 20020401; FR 2746861 A1 19971003; FR 2746861 B1 19980619; JP 2002515102 A 20020521; PL 183525 B1 20020628; PL 329116 A1 19990315; TR 199801946 T2 19990118; US 5979597 A 19991109

DOCDB simple family (application)

FR 9700525 W 19970325; AT 97916494 T 19970325; BR 9708465 A 19970325; CN 97193493 A 19970325; DE 69708614 T 19970325; EP 97916494 A 19970325; ES 97916494 T 19970325; FR 9603988 A 19960329; JP 53497197 A 19970325; PL 32911697 A 19970325; TR 9801946 T 19970325; US 14705998 A 19980929