

Title (en)  
REFRIGERATING AGENT COMPRESSOR WITH IMPROVED VALVE

Title (de)  
KÄLTEMITTELVERDICHTER MIT VERBESSERTEM VENTIL

Title (fr)  
COMPRESSEUR POUR APPAREILS FRIGORIFIQUES A SOUPAPE AMELIOREE

Publication  
**EP 1038107 B1 20020410 (DE)**

Application  
**EP 98958725 A 19981210**

Priority  
• AT 9800303 W 19981210  
• AT 77397 U 19971211

Abstract (en)  
[origin: WO9930037A1] The invention relates to a refrigerating agent compressor for electrical refrigerating appliances, especially for household refrigerators and deep freezers. Said compressor comprises an inner body, a piston which can move in a cylinder, a first compressor seal, a valve spring, a valve plate provided with a refrigerating agent suction bore and a valve block, the valve plate having two recesses provided on its side oriented towards the valve spring. Said compressor is designed so that two externally projecting parts of the spring are inclined and able to enter said recesses and become blocked inside said recesses, and so that a part of the remaining surface of the valve spring is mounted in a way enabling it to move and in a position closely adjacent to the surface of the valve plate oriented towards the interior of the cylinder, for blocking the suction bore provided in the valve plate. The valve spring only comprises the surface with which it is possible to block the suction bore provided in the valve plate, the two side surfaces which can be blocked in said recesses, as well as a surface held by a compressor seal, in a way to be closely adjacent to the surface of the valve plate which faces the cylinder.

IPC 1-7  
**F04B 39/10**

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

CPC (source: EP US)  
**F04B 39/1073** (2013.01 - EP US); **F05B 2230/60** (2013.01 - EP US); **Y10T 137/7891** (2015.04 - EP US)

Designated contracting state (EPC)  
DE DK ES FR GB IT

DOCDB simple family (publication)  
**WO 9930037 A1 19990617**; BR 9813552 A 20001017; CN 1100946 C 20030205; CN 1281536 A 20010124; DE 59803788 D1 20020516; DK 1038107 T3 20020819; EP 1038107 A1 20000927; EP 1038107 B1 20020410; ES 2174515 T3 20021101; JP 2001526359 A 20011218; US 6293774 B1 20010925

DOCDB simple family (application)  
**AT 9800303 W 19981210**; BR 9813552 A 19981210; CN 98812001 A 19981210; DE 59803788 T 19981210; DK 98958725 T 19981210; EP 98958725 A 19981210; ES 98958725 T 19981210; JP 2000524583 A 19981210; US 55480800 A 20000519