

Title (en)
RECIPROCATING COMPRESSOR FOR A COOLING DEVICE

Title (de)
KOLBENKOMPRESSOR FÜR EINE KÜHLVORRICHTUNG

Title (fr)
COMPRESSEUR ALTERNATIF POUR UN DISPOSITIF DE REFROIDISSEMENT

Publication
EP 3230587 A1 20171018 (EN)

Application
EP 15830841 A 20151211

Priority
• IT PG20140062 A 20141211
• IB 2015059534 W 20151211

Abstract (en)
[origin: WO2016092514A1] Reciprocating compressor (100) for a cooling device (200) provided with a closed circuit (C) having a main branch (M), in which a first flow rate (X) of circulating coolant enters in said compressor, and at least one first economizer branch, or secondary branch (E), in which a second flow rate (XI) of coolant circulates under a pressure different from the pressure of said first flow rate (X) of coolant, said compressor being provided with at least one cylinder (110) and at least one piston (111) reciprocatingly moving in said at least one cylinder, between a top dead centre (S) and a bottom dead centre (I), and comprising at least one suction duct for the entrance of said first flow rate of coolant, and at least one port (107) obtained in the wall of said cylinder for the entrance of said second flow rate of coolant, in such a way that said piston exposes at least in part said at least one first inlet port (107), at least during its inlet stroke, and covers said at least one port at least during its compression stroke, characterized in that said at least one first inlet port (107) has a slit shape with the main dimension substantially transverse to the axis (A) of said cylinder.

IPC 8 full level
F04B 7/04 (2006.01); **F04B 27/10** (2006.01); **F04B 39/12** (2006.01); **F25B 1/02** (2006.01)

CPC (source: EP)
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Citation (search report)
See references of WO 2016092514A1

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DOCDB simple family (publication)
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