

Title (en)  
CRYOGENIC COMPRESSOR COMPRISING A HIGH-PRESSURE PHASE SEPARATOR

Title (de)  
KRYOVERDICHTER MIT HOCHDRUCKPHASENTRENNER

Title (fr)  
COMPRESSEUR CRYOGENIQUE A SEPARATEUR DE PHASE HAUTE PRESSION

Publication  
**EP 1915530 A1 20080430 (DE)**

Application  
**EP 06754048 A 20060601**

Priority  
• EP 2006005241 W 20060601  
• DE 102005028200 A 20050617

Abstract (en)  
[origin: US2008213110A1] An apparatus and method for compressing a cryogenic media is disclosed. A compressor includes a compressor chamber surrounded by a cylinder wall in which a compressor piston is moved in a linear manner, a suction valve and a pressure valve, which are arranged in the region of the lower end position of the compressor piston, and a liquid chamber which at least partially surrounds the compressor chamber. The cylinder wall defines at least one opening, which corresponds to the liquid chamber, and at least one opening, via which the gaseous medium can be extracted from the compressor chamber, where the openings are located at points on the cylinder wall that are passed by the compressor piston.

IPC 8 full level  
**F04B 15/08** (2006.01); **F04B 23/02** (2006.01); **F04B 37/14** (2006.01)

CPC (source: EP US)  
**F04B 15/08** (2013.01 - EP US); **F04B 23/023** (2013.01 - EP US); **F04B 37/20** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006133813A1

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

DOCDB simple family (publication)  
**US 2008213110 A1 20080904**; AT E422026 T1 20090215; DE 102005028200 A1 20061221; DE 502006002758 D1 20090319;  
EP 1915530 A1 20080430; EP 1915530 B1 20090128; JP 2008544135 A 20081204; JP 4988726 B2 20120801; WO 2006133813 A1 20061221

DOCDB simple family (application)  
**US 91775406 A 20060601**; AT 06754048 T 20060601; DE 102005028200 A 20050617; DE 502006002758 T 20060601;  
EP 06754048 A 20060601; EP 2006005241 W 20060601; JP 2008516169 A 20060601