

Title (en)

COMPRESSOR AND APPARATUS FOR COMPRESSING TWO GASES AT HIGH PRESSURE

Title (de)

VERDICHTER UND VORRICHTUNG ZUM KOMPRIMIEREN VON ZWEI GASEN AUF HOHEM DRUCK

Title (fr)

COMPRESSEUR ET APPAREIL DE COMPRESSION DE DEUX GAZ À HAUTE PRESSION

Publication

EP 2229531 B1 20110831 (EN)

Application

EP 08856758 A 20081202

Priority

- CH 2008000506 W 20081202
- EP 07405344 A 20071206
- EP 08856758 A 20081202

Abstract (en)

[origin: EP2067992A1] In a reciprocating piston compressor (1) comprising at least one first compression stage (11) for compressing a first gas, the first compression stage (11) comprises at least a first piston (13) sliding in a first compression (12) chamber. The compressor (1) further comprises at least one second compression stage (21) for compressing a second gas, the second compression stage (21) comprising at least a second piston (23) sliding in a second compression chamber (22), and the second and the first piston (13, 23) being mechanically linked and driven by the same mechanical actuator (31). The first and second gas are, within the compressor (1), kept separate from one another. This makes it possible to compress two gases, separate from each other in the same compressor (1). In a preferred embodiment of the invention, the volume ratio of the first and second compression stage (11, 21) is the same as the stoichiometric ratio of the gases produced by a separation process coupled to the compressor (1)

IPC 8 full level

F04B 5/02 (2006.01); **F04B 5/00** (2006.01); **F04B 9/113** (2006.01); **F04B 9/115** (2006.01); **F04B 25/00** (2006.01); **F04B 25/02** (2006.01)

CPC (source: EP)

F04B 5/00 (2013.01); **F04B 5/02** (2013.01); **F04B 9/113** (2013.01); **F04B 9/115** (2013.01); **F04B 25/005** (2013.01); **F04B 25/02** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2067992 A1 20090610; AT E522721 T1 20110915; EP 2229531 A1 20100922; EP 2229531 B1 20110831; ES 2372902 T3 20120127; WO 2009070906 A1 20090611

DOCDB simple family (application)

EP 07405344 A 20071206; AT 08856758 T 20081202; CH 2008000506 W 20081202; EP 08856758 A 20081202; ES 08856758 T 20081202