

Title (en)  
SCREW COMPRESSOR

Title (de)  
SCHRAUBENVERDICHTER

Title (fr)  
COMPRESSEUR À VIS

Publication  
**EP 2343457 A1 20110713 (EN)**

Application  
**EP 09816009 A 20090818**

Priority  
• JP 2009064444 W 20090818  
• JP 2008247063 A 20080926

Abstract (en)  
A screw compressor has a compression chamber formed by a pair of screw rotors which is provided with a male rotor (2) and a female rotor (2A) and by a casing which contains the pair of screw rotors. The casing has a discharge port (10) out of which a compressed gas flows, and also has a discharge chamber (12) into which the compressed gas discharged from the discharge port flows: Bypass paths for interconnecting the compression chamber and the discharge chamber are respectively provided to both a male rotor side portion and a female rotor side portion which are located near the discharge port formed in the casing. The compressor also has a valve (110) for opening and closing the bypass paths.

IPC 8 full level  
**F04C 18/16** (2006.01); **F04C 28/28** (2006.01)

CPC (source: EP)  
**F04C 18/16** (2013.01); **F04C 28/26** (2013.01); **F04C 28/28** (2013.01)

Citation (search report)  
See references of WO 2010035592A1

Cited by  
US2018017060A1; EP3555445A4; WO2018017607A1; US9169840B2; US10677246B2

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2343457 A1 20110713**; CN 102165197 A 20110824; JP 2010077897 A 20100408; TW 201013052 A 20100401;  
WO 2010035592 A1 20100401

DOCDB simple family (application)  
**EP 09816009 A 20090818**; CN 200980137925 A 20090818; JP 2008247063 A 20080926; JP 2009064444 W 20090818;  
TW 98124705 A 20090722