

Title (en)
SCREW COMPRESSOR PULSATION DAMPER

Title (de)
SCHRAUBENKOMPRESSOR-PULSATIONS DÄMPFER

Title (fr)
AMORTISSEUR DE PULSATION POUR COMPRESSEUR À VIS

Publication
EP 2198125 B1 20170621 (EN)

Application
EP 07839131 A 20071001

Priority
US 2007021144 W 20071001

Abstract (en)
[origin: WO2009045187A1] A screw compressor (10) comprises a housing (12, 14, 16), a slide valve assembly (23) and a pulsation damper. The housing (12, 14, 16) receives a supply of working matter from a pair of intermeshing screw rotors (18, 20), and comprises a slide recess (51), a pressure pocket (32), and a piston cylinder (54). The slide valve assembly (23) regulates the capacity of the screw compressor (10), and comprises a slide valve (36) axially movable within the slide recess (51) and the pressure pocket (32), a piston head (40) axially movable within the piston cylinder (54), and a piston shaft (38) connecting the slide valve (36) with the piston head (40). The pulsation damper comprises a flange (58) for separating the pressure pocket (32) from the piston cylinder (54), a bore (60) for receiving the piston rod (38), and a damping channel (46A) extending through the flange (58).

IPC 8 full level
F01C 1/16 (2006.01)

CPC (source: EP US)
F04C 18/16 (2013.01 - EP US); **F04C 28/12** (2013.01 - EP US); **F04C 29/0035** (2013.01 - EP US); **F04C 29/06** (2013.01 - EP US); **F04C 2270/12** (2013.01 - EP US); **F04C 2270/13** (2013.01 - EP US); **F04C 2270/14** (2013.01 - EP US)

Cited by
US10180140B2

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2009045187 A1 20090409; CN 101809251 A 20100818; CN 101809251 B 20130717; EP 2198125 A1 20100623; EP 2198125 A4 20130724; EP 2198125 B1 20170621; ES 2629981 T3 20170817; US 2010209280 A1 20100819

DOCDB simple family (application)
US 2007021144 W 20071001; CN 200780100896 A 20071001; EP 07839131 A 20071001; ES 07839131 T 20071001; US 67840110 A 20100316