

Title (en)

SCREW COMPRESSOR WITH ECONOMIZER PORT

Title (de)

SCHRAUBENVERDICHTER MIT ECONOMISER-ANSCHLUSS

Title (fr)

COMPRESSEUR À VIS AYANT UN ORIFICE D'ÉCONOMISEUR

Publication

**EP 3019750 A2 20160518 (EN)**

Application

**EP 14742105 A 20140630**

Priority

- US 201361844526 P 20130710
- US 2014044859 W 20140630

Abstract (en)

[origin: WO2015006081A2] A screw compressor includes a screw compressor rotor. The rotor includes a helical flute extending outwardly from a rotor axis. A compressor housing surrounds the rotor and including a suction port and a discharge port. The housing has an inner housing wall abutting the rotor and an outer housing wall forming an exterior of the compressor. A housing pocket is located between the outer housing wall and the inner housing wall. An economizer port extends from the housing pocket through the inner housing wall to direct a flow of gaseous refrigerant into the compressor.

IPC 8 full level

**F04C 18/16** (2006.01); **F04C 29/04** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)

**F04C 18/086** (2013.01 - EP US); **F04C 18/16** (2013.01 - EP US); **F04C 29/12** (2013.01 - US); **F25B 1/047** (2013.01 - US)

Citation (search report)

See references of WO 2015006081A2

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015006081 A2 20150115; WO 2015006081 A3 20150514;** CN 105518304 A 20160420; CN 105518304 B 20180727;  
EP 3019750 A2 20160518; EP 3019750 B1 20201104; ES 2829828 T3 20210602; US 2016161153 A1 20160609

DOCDB simple family (application)

**US 2014044859 W 20140630;** CN 201480049193 A 20140630; EP 14742105 A 20140630; ES 14742105 T 20140630;  
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