

Title (en)
SCREW COMPRESSOR AND REFRIGERATION CYCLE DEVICE

Title (de)
SCHRAUBENVERDICHTER UND KÜHLKREISVORRICHTUNG DAMIT

Title (fr)
COMPRESSEUR À VIS ET DISPOSITIF DE CYCLE DE RÉFRIGÉRATION

Publication
EP 3006740 A1 20160413 (EN)

Application
EP 14803724 A 20140529

Priority

- JP 2013113748 A 20130530
- JP 2014064346 W 20140529

Abstract (en)
A screw compressor includes an economizer passage (50) provided in a casing (1) and allowing an outside of the casing (1) and a slide groove (14) in which a slide valve (12) is provided to communicate with each other, and an economizer port (12p) provided in the slide valve (12) and allowing the economizer passage (50) to communicate with one of compression chambers (11) in accordance with a position of the slide valve (12). The slide valve (12) gradually advances a timing of starting discharge by moving from a discharge side toward a suction side. The economizer port (12p) is provided at a position where the economizer port (12p) communicates with a suction-pressure chamber (1C) when the slide valve (12) is positioned at an extreme end on the suction side.

IPC 8 full level
F04C 18/52 (2006.01); **F04C 28/12** (2006.01); **F04C 28/26** (2006.01); **F25B 1/047** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP)
F04C 18/52 (2013.01); **F04C 28/12** (2013.01); **F04C 28/26** (2013.01); **F04C 29/042** (2013.01); **F25B 1/047** (2013.01); **F25B 2400/13** (2013.01)

Cited by
CN106762633A; EP3225848A4; EP3199814A4; US11333148B2

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3006740 A1 20160413; **EP 3006740 A4 20170104**; **EP 3006740 B1 20181114**; CN 105247217 A 20160113; CN 105247217 B 20170315; JP 6058133 B2 20170111; JP WO2014192898 A1 20170223; WO 2014192898 A1 20141204

DOCDB simple family (application)
EP 14803724 A 20140529; CN 201480030486 A 20140529; JP 2014064346 W 20140529; JP 2015519948 A 20140529