

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 3334995 A1 20180620 (DE)

Application
EP 16747730 A 20160802

Priority
• DE 102015010455 A 20150811
• EP 2016001328 W 20160802

Abstract (en)
[origin: WO2017025173A1] The invention relates to a heat exchanger comprising a first cylindrical tube (2) and a lead screw (3) which extends coaxially inside the first cylindrical tube (2); the inner surface of the first cylindrical tube (2) has guiding grooves (22), and a cleaning element (12) is secured to the lead screw (3) in such a way that a rotating movement of the lead screw (3) moves the cleaning element (12) in the axial direction along the guiding grooves (22).

IPC 8 full level
F28G 1/08 (2006.01); **B08B 9/043** (2006.01); **F28D 7/10** (2006.01); **F28F 1/40** (2006.01); **F28G 1/14** (2006.01)

CPC (source: EP KR RU US)
B08B 1/30 (2024.01 - EP US); **B08B 9/0436** (2013.01 - EP KR US); **F28D 7/106** (2013.01 - EP KR US); **F28F 1/40** (2013.01 - EP KR US); **F28G 1/08** (2013.01 - EP KR US); **F28G 1/14** (2013.01 - EP KR US); **F28G 3/08** (2013.01 - RU); **F28G 3/10** (2013.01 - RU); **F28G 15/08** (2013.01 - EP US)

Citation (search report)
See references of WO 2017025173A1

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)
WO 2017025173 A1 20170216; CA 2992959 A1 20170216; CA 2992959 C 20231017; CN 107923721 A 20180417; CN 107923721 B 20200522; DE 102015010455 A1 20170216; DK 3334995 T3 20210118; EP 3334995 A1 20180620; EP 3334995 B1 20201021; ES 2843527 T3 20210719; HU E053288 T2 20210628; JP 2018525600 A 20180906; JP 6890579 B2 20210618; KR 102601037 B1 20231109; KR 20180038537 A 20180416; PL 3334995 T3 20210419; PT 3334995 T 20210122; RU 2018102560 A 20190912; RU 2018102560 A3 20200117; RU 2715128 C2 20200225; SA 518390886 B1 20210908; US 10780460 B2 20200922; US 2019009306 A1 20190110

DOCDB simple family (application)
EP 2016001328 W 20160802; CA 2992959 A 20160802; CN 201680046937 A 20160802; DE 102015010455 A 20150811; DK 16747730 T 20160802; EP 16747730 A 20160802; ES 16747730 T 20160802; HU E16747730 A 20160802; JP 2018506845 A 20160802; KR 20187006940 A 20160802; PL 16747730 T 20160802; PT 16747730 T 20160802; RU 2018102560 A 20160802; SA 518390886 A 20180206; US 201615750591 A 20160802