

Title (en)

NOZZLE, AND HEAT MANAGEMENT MODULE COMPRISING SAME

Title (de)

ANSCHLUSSSTUTZEN UND WÄRMEMANAGEMENTMODUL MIT EINEM SOLCHEN

Title (fr)

RACCORD ET MODULE DE GESTION DE CHALEUR POURVU D'UN TEL RACCORD

Publication

EP 3420255 A1 20190102 (DE)

Application

EP 17707160 A 20170203

Priority

- DE 102016203070 A 20160226
- DE 2017100073 W 20170203

Abstract (en)

[origin: WO2017144047A1] A nozzle (8) of a heat management module (1) of an internal combustion engine can be inserted into a seating hole (9) in a housing (2) of the heat management module. The aim is to be able to brace a sealing ring (16) of the nozzle against a rotary valve (3) by means of a compression spring element (13). The nozzle is to be provided with a stop (24) that limits the longitudinal movement of the sealing ring in the direction of the rotary valve.

IPC 8 full level

F16K 5/06 (2006.01); **F16K 5/20** (2006.01)

CPC (source: EP KR US)

F16K 5/0689 (2013.01 - EP KR US); **F16K 5/201** (2013.01 - EP KR US); **F01P 2007/146** (2013.01 - US)

Citation (search report)

See references of WO 2017144047A1

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)

DE 102016203070 B3 20170601; CN 108700205 A 20181023; CN 108700205 B 20200911; EP 3420255 A1 20190102; KR 20180119577 A 20181102; US 10865888 B2 20201215; US 2019085987 A1 20190321; WO 2017144047 A1 20170831

DOCDB simple family (application)

DE 102016203070 A 20160226; CN 201780012602 A 20170203; DE 2017100073 W 20170203; EP 17707160 A 20170203; KR 20187024424 A 20170203; US 201716080081 A 20170203