

Title (en)

SCREEN SEAL AND METHOD FOR THE OPERATION THEREOF

Title (de)

SIEBDICHTUNG UND VERFAHREN ZU DEREN BETRIEB

Title (fr)

JOINT D'ÉTANCHÉITÉ DE TAMIS ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

**EP 3491230 A1 20190605 (DE)**

Application

**EP 17754092 A 20170728**

Priority

- DE 102016114006 A 20160729
- DE 102016114916 A 20160811
- EP 2017069175 W 20170728

Abstract (en)

[origin: WO2018020001A1] The present invention relates to a screen seal (1) for an EGR branch of an internal combustion engine, the screen seal (1) being in the form of an integral component consisting of a seal (5) which surrounds and holds a screen body (4) across an inner free cross-sectional area (A). The present invention also relates to a method for continuous use of a screen seal of this type. To counteract sootiness and/or soot formation and accumulation of deposits in the screen seal (1), according to the invention the screen body (4) is designed for a current I to flow through at least part of it in such a manner that a temperature (T) sufficient to remove at least substantial parts of the deposits is set or a corresponding temperature threshold of up to approx. 600°C is exceeded.

IPC 8 full level

**F02M 26/35** (2016.01); **F01N 3/022** (2006.01); **F01N 3/027** (2006.01); **F01N 3/029** (2006.01); **F01N 3/035** (2006.01); **F01N 5/02** (2006.01); **F02M 26/11** (2016.01)

CPC (source: EP KR US)

**B01D 46/10** (2013.01 - US); **B01D 46/4263** (2013.01 - US); **B01D 46/46** (2013.01 - US); **B01D 46/82** (2022.01 - US); **B01D 46/84** (2022.01 - US); **F01N 3/022** (2013.01 - KR US); **F01N 3/027** (2013.01 - KR US); **F01N 3/029** (2013.01 - KR); **F01N 3/035** (2013.01 - KR US); **F01N 5/025** (2013.01 - KR US); **F01N 9/002** (2013.01 - US); **F02M 26/11** (2016.02 - KR US); **F02M 26/35** (2016.02 - EP KR US); **F02M 26/45** (2016.02 - US); **B01D 2271/02** (2013.01 - US); **B01D 2279/30** (2013.01 - US); **F01N 3/022** (2013.01 - EP); **F01N 3/027** (2013.01 - EP); **F01N 3/029** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP); **F01N 5/025** (2013.01 - EP); **F01N 2330/12** (2013.01 - US); **F01N 2510/065** (2013.01 - US); **F01N 2900/0414** (2013.01 - US); **F02M 26/11** (2016.02 - EP)

Citation (search report)

See references of WO 2018020001A1

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 2018020001 A1 20180201**; CN 109563792 A 20190402; EP 3491230 A1 20190605; KR 20190034619 A 20190402; US 2019264640 A1 20190829

DOCDB simple family (application)

**EP 2017069175 W 20170728**; CN 201780046986 A 20170728; EP 17754092 A 20170728; KR 20197005976 A 20170728; US 201716320315 A 20170728