

Title (en)
HOLLOW BODY WITH INTEGRATED OIL SEPARATOR

Title (de)
Hohlkörper mit integrierter Ölabscheideeinrichtung

Title (fr)
CORPS CREUX À SEPARATEUR D'HUILE INTÉGRÉ

Publication
EP 2603674 B1 20170809 (DE)

Application
EP 11725477 A 20110617

Priority
• DE 102010033955 A 20100810
• EP 2011060116 W 20110617

Abstract (en)
[origin: WO2012019812A1] The invention relates to a hollow body (2) formed at least in regions as a hollow cylinder and having an integrated oil separating device, wherein a vortex generator (4) is disposed in a hollow space (3) of the hollow body (2), wherein the hollow body (2) comprises at least one inlet opening (9) on the jacket side for introducing gas charged with oil into the hollow space (3) and wherein the hollow body (2) comprises at least one discharge opening for discharging separated oil and for discharging gas freed of oil. According to the invention, an oil separating ring (5) is disposed within the hollow space (3) and downstream of the vortex generator (4) as seen in the flow direction. The invention further relates to a cylinder head cover having such a hollow body (2).

IPC 8 full level
F01L 1/047 (2006.01); **F01M 13/04** (2006.01)

CPC (source: EP KR US)
B04C 3/06 (2013.01 - US); **F01L 1/047** (2013.01 - EP KR US); **F01M 13/04** (2013.01 - EP KR US); **F01M 13/0416** (2013.01 - EP US); **B04C 2003/006** (2013.01 - US); **F01L 2001/0475** (2013.01 - EP US); **F01L 2810/02** (2013.01 - EP US); **F01M 2013/0055** (2013.01 - EP US); **F01M 2013/0072** (2013.01 - EP US); **F01M 2013/026** (2013.01 - EP US); **F01M 2013/0422** (2013.01 - EP US); **F01M 2013/0427** (2013.01 - EP US); **F01M 2013/0433** (2013.01 - EP US)

Cited by
DE202019100497U1

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

DOCDB simple family (publication)
DE 102010033955 A1 20120216; BR 112013003309 A2 20170411; CN 103228874 A 20130731; CN 103228874 B 20151125; EP 2603674 A1 20130619; EP 2603674 B1 20170809; JP 2013533432 A 20130822; KR 101757510 B1 20170712; KR 20140002613 A 20140108; US 2016186624 A1 20160630; WO 2012019812 A1 20120216

DOCDB simple family (application)
DE 102010033955 A 20100810; BR 112013003309 A 20110617; CN 201180045341 A 20110617; EP 11725477 A 20110617; EP 2011060116 W 20110617; JP 2013523546 A 20110617; KR 20137005895 A 20110617; US 201113813002 A 20110617