

Title (en)

DUCT FOR THE PASSAGE OF LIQUID COOLANT FOR AN INTERNAL COMBUSTION ENGINE OF A MOTOR VEHICLE

Title (de)

LEITUNG ZUR DURCHFÜHRUNG VON FLÜSSIGEM KÜHLMITTEL FÜR EINEN VERBRENNUNGSMOTOR EINES KRAFTFAHRZEUGS

Title (fr)

CONDUIT DE PASSAGE DE LIQUIDE DE REFROIDISSEMENT POUR MOTEUR À COMBUSTION INTERNE DE VÉHICULE AUTOMOBILE

Publication

**EP 3555457 A1 20191023 (FR)**

Application

**EP 17825423 A 20171212**

Priority

- FR 1662596 A 20161216
- EP 2017082390 W 20171212

Abstract (en)

[origin: WO2018108887A1] This duct (28) for the passage of liquid coolant for an internal combustion engine (2) of an automotive vehicle comprises a tubular portion (30) to allow the passage of a liquid coolant of a cooling circuit (6) of the engine (2), said tubular portion (30) comprising an upstream end (32) designed to be connected to a first functional member of the engine (2), and a downstream end (34) opposite the upstream end (32) and designed to be connected to a second functional member of the engine (2). The tubular portion (30) comprises at least one reception orifice (52) capable of receiving at least one element for heating the liquid coolant.

IPC 8 full level

**F02N 19/10** (2010.01); **F01P 11/04** (2006.01); **F01P 11/20** (2006.01)

CPC (source: EP)

**F01P 11/04** (2013.01); **F01P 11/20** (2013.01); **F01P 2037/02** (2013.01); **F01P 2060/04** (2013.01); **F01P 2060/08** (2013.01); **F01P 2070/04** (2013.01); **F02N 19/10** (2013.01)

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 2018108887 A1 20180621**; EP 3555457 A1 20191023; EP 3555457 B1 20231025; ES 2968435 T3 20240509; ES 2968435 T8 20240529; FR 3060666 A1 20180622; FR 3060666 B1 20190802

DOCDB simple family (application)

**EP 2017082390 W 20171212**; EP 17825423 A 20171212; ES 17825423 T 20171212; FR 1662596 A 20161216