

Title (en)  
AN INTERNAL COMBUSTION ENGINE AND A METHOD OF MANUFACTURING THEREOF

Title (de)  
BRENNKRAFTMASCHINE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)  
MOTEUR À COMBUSTION INTERNE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 3874134 A1 20210908 (EN)**

Application  
**EP 19809653 A 20191027**

Priority  
• IN 201841040870 A 20181030  
• IN 2019050791 W 20191027

Abstract (en)  
[origin: WO2020089930A1] The present subject matter provides an internal combustion engine (101) for a vehicle (100). The internal combustion engine includes at least one cylinder head (203). The at least one cylinder head includes at least one intake port (301). A combustion chamber for receiving intake charge from a fuel supply device through at least one intake port is provided. At least one exhaust port (304), which is capable of expelling combusted gases from the combustion chamber to atmosphere through an exhaust pipe (200) of vehicle, is provided. The at least one exhaust port has an upstream portion (310) adjoining the combustion chamber and a downstream portion (307) adjoining an inlet opening (201) of the exhaust pipe. The downstream portion of the exhaust port has a first cross-sectional area (APT) 10 substantially equal to or substantially lesser than a second cross-sectional area (APE) of the inlet opening of the exhaust pipe.

IPC 8 full level  
**F01N 3/34** (2006.01); **F01N 13/10** (2010.01); **F02F 1/42** (2006.01)

CPC (source: EP)  
**F01N 3/34** (2013.01); **F01N 13/10** (2013.01); **F02F 1/4264** (2013.01); **F01N 2340/02** (2013.01); **F01N 2590/04** (2013.01); **Y02A 50/20** (2017.12); **Y02T 10/12** (2013.01)

Citation (search report)  
See references of WO 2020089930A1

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 2020089930 A1 20200507**; BR 112021008498 A2 20210803; CN 112912597 A 20210604; CN 112912597 B 20230523; CO 2021005588 A2 20210930; EP 3874134 A1 20210908

DOCDB simple family (application)  
**IN 2019050791 W 20191027**; BR 112021008498 A 20191027; CN 201980069727 A 20191027; CO 2021005588 A 20210428; EP 19809653 A 20191027