

Title (en)

TWO-STROKE COMBUSTION ENGINE OF AN AUTOMOTIVE VEHICLE WITH TWISTED INTAKE PORTS

Title (de)

ZWEITAKTVERBRENNUNGSMOTOR EINES KRAFTFAHRZEUGES MIT GEWUNDENEN ANSAUGSTUTZEN

Title (fr)

MOTEUR THERMIQUE DEUX TEMPS DE VÉHICULE AUTOMOBILE A LUMIÈRES D'ADMISSION VRILLÉES

Publication

**EP 3140528 A2 20170315 (FR)**

Application

**EP 15788646 A 20150326**

Priority

- FR 1454038 A 20140505
- FR 2015050768 W 20150326

Abstract (en)

[origin: WO2015170020A2] The invention relates to a two-stroke thermal engine comprising at least one axial cylinder (12) having a bore (14) which slidably receives at least one piston (16) and has a plurality of lower peripheral ports (34) capable of being opened or closed by the moving piston (16), which ports are substantially hexahedral in shape, are each defined in the peripheral wall (30) by quadrilateral surfaces (36, 38, 58, 60), comprising upper surfaces (36, 38) which are defined by edges (40, 42, 46, 48), referred to as gas directing edges, characterised in that the gas directing edges (40, 42) of the upper surface (36) form angles ( $\alpha_{40}$ ,  $\alpha_{42}$ ) with a radial direction (R), which angles are oriented in a first direction and are within a first angular range, and in that the gas directing edges (46, 48) of the lower surface form angles ( $\alpha_{46}$ ,  $\alpha_{48}$ ) with the radial direction (R), which angles are oriented in a second direction, which is opposite the first, and are within a second angular range.

IPC 8 full level

**F02B 25/04** (2006.01); **F02B 31/04** (2006.01); **F02B 75/02** (2006.01); **F02F 1/22** (2006.01)

CPC (source: EP)

**F02B 25/04** (2013.01); **F02B 31/04** (2013.01); **F02F 1/22** (2013.01); **F02B 2075/025** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)

See references of WO 2015170020A2

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)

**FR 3020656 A1 20151106**; **FR 3020656 B1 20200814**; EP 3140528 A2 20170315; FR 3020657 A1 20151106; WO 2015170020 A2 20151112; WO 2015170020 A3 20160428

DOCDB simple family (application)

**FR 1454038 A 20140505**; EP 15788646 A 20150326; FR 1457495 A 20140801; FR 2015050768 W 20150326