

Title (en)
A PISTON FOR AN ENGINE

Title (de)
KOLBEN FÜR EINEN MOTOR

Title (fr)
PISTON POUR UN MOTEUR

Publication
EP 4314530 A1 20240207 (EN)

Application
EP 22717633 A 20220325

Priority

- EP 2021057914 W 20210326
- EP 2021057919 W 20210326
- EP 2021057926 W 20210326
- EP 2021057933 W 20210326
- EP 2021057928 W 20210326
- EP 2021057927 W 20210326
- EP 2021057925 W 20210326
- EP 2021057924 W 20210326
- EP 2021057922 W 20210326
- EP 2021057920 W 20210326
- EP 2021057921 W 20210326
- EP 2021057943 W 20210326
- EP 2021057917 W 20210326
- EP 2021057915 W 20210326
- EP 2021057930 W 20210326
- EP 2021057913 W 20210326
- EP 2021057940 W 20210326
- EP 2022058006 W 20220325

Abstract (en)
[origin: WO2022200611A1] A piston (54) for an engine comprising a cylinder (57), an air inlet (91a) and an exhaust outlet (92a), wherein the air inlet (91a) and the exhaust outlet (92a) are arranged about a longitudinal axis (60) of the cylinder (57). The piston (54) comprises a circular peripheral wall (141) having a central axis (142) which is aligned with the longitudinal axis (60) of the cylinder (57). The piston (54) has working surface (79) which comprises a central channel (140) that extends across the working surface (79) in a direction perpendicular to the central axis (142). The channel (140) has two ends (148a, 148b) located on opposite sides of the channel (140). Opposing sides of the channel each comprise a side wall (151, 152) which extend from a base (153) of the channel (140) to a respective side edge (149, 150) of the channel (140). The channel (140) is configured to promote tumble of air flow into the cylinder (57) from the air inlet (91a), in use during an intake stroke of the piston (54).

IPC 8 full level
F02B 23/10 (2006.01); **F02F 3/26** (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP)
F02B 23/10 (2013.01); **F02F 1/24** (2013.01); **F02F 3/26** (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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022200611 A1 20220929; EP 4314530 A1 20240207

DOCDB simple family (application)
EP 2022058006 W 20220325; EP 22717633 A 20220325