

Title (en)

AIR INTAKE PORT FOR A LEAN-BURN GASOLINE ENGINE

Title (de)

LUFTEINLASSSTUTZEN FÜR EINE BRENNKRAFTMASCHINE MIT MAGERGEMISCHVERBRENNUNG

Title (fr)

ORIFICE D'ADMISSION D'AIR POUR MOTEUR À ESSENCE À MÉLANGE PAUVRE

Publication

EP 4314536 A1 20240207 (EN)

Application

EP 21716620 A 20210326

Priority

EP 2021057914 W 20210326

Abstract (en)

[origin: WO2022199831A1] An air intake port (10) for a lean-burn gasoline engine (110) comprises an air inlet (14), two air outlets (15a, 15b), and an air channel connecting the air inlet (14) to the two air outlets (15a, 15b). The air channel comprises an upstream common duct (11) and two downstream port legs (12a, 12b), the two downstream port legs (12a, 12b) branching off from the common duct (11) at a bifurcation point (13). The upstream common duct (11) has a duct floor (42) and a duct ceiling (41), each comprising a sloped portion arranged to converge on the bifurcation point (13), wherein a bifurcation angle of less than 90 degrees is formed between the sloped portions of the duct floor (42) and the duct ceiling (41) at the bifurcation point (13).

IPC 8 full level

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