

Title (en)

METHOD FOR ADJUSTING RICHNESS IN A CONTROLLED-IGNITION INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR EINSTELLUNG DER FETTHEIT IN EINEM VERBRENNUNGSMOTOR MIT KONTROLLIERTER ZÜNDUNG

Title (fr)

PROCEDE DE REGLAGE DE LA RICHESSE D'UN MOTEUR A COMBUSTION INTERNE A ALLUMAGE COMMANDE

Publication

EP 4031759 A1 20220727 (FR)

Application

EP 20765302 A 20200908

Priority

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- EP 2020075016 W 20200908

Abstract (en)

[origin: WO2021052808A1] A method is proposed for adjusting richness in an internal combustion engine equipped with a catalytic converter. The richness is adjusted by a first closed-loop controller to a setpoint ($C\lambda$) which is continuously corrected by a second controller depending on the deviations between a calculated oxygen quantity value (OS) and an oxygen store setpoint value (OSc). The setpoint (OSc) is defined, for each value of the gas flow rate (Q_{ech}) crossing the catalytic converter and of the temperature (T_{cat}) of said catalytic converter, within a range between a minimum and a maximum oxygen quantity threshold (OSmin, OSmax); when these thresholds are exceeded this corresponds, respectively, to an onset of a leakage of carbon monoxide or nitrogen oxides.

IPC 8 full level

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Citation (search report)

See references of WO 2021052808A1

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