

Title (en)

METHOD FOR DETERMINING AN OPTIMAL AIR-FUEL MIXTURE RATIO IN AN INTERNAL COMBUSTION ENGINE, AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUR BESTIMMUNG DES EINEM VERBRENNUNGSMOTOR ZUGEFÜHRTEN OPTIMALEN LUFT-KRAFTSTOFF-
VERHÄLTNISSSES UND ENTSPRECHENDE VORRICHTUNG

Title (fr)

PROCEDE DE DETERMINATION DE LA RICHESSE OPTIMALE D'UN MELANGE AIR/CARBURANT ALIMENTANT UN MOTEUR A
COMBUSTION INTERNE ET DISPOSITIF CORRESPONDANT

Publication

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Application

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Priority

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- FR 9511427 A 19950927

Abstract (en)

[origin: WO9712135A1] A method for determining an optimal air-fuel mixture ratio in an internal combustion engine is disclosed. The engine comprises a speed controller for maintaining a constant engine speed. The method comprises feeding an initial air-fuel mixture to the engine and controlling the engine speed by adjusting the throttle valve position. Said method further comprises the steps of causing a plurality of ratio jumps in the mixture fed to the engine; measuring changes in the valve position for each ratio jump; determining whether the changes in the valve position are lower than a threshold value, in which case the mixture has the optimal mixture ratio, or higher than the threshold value, in which case the mixture ratio must be changed; and, if required, correcting the mixture ratio of the initial mixture fed to the engine depending on the magnitude of the measured changes in the valve position. Said method is particularly useful in engines for lawn mowers, power generators, etc.

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