Title (en)

METHOD FOR ADJUSTING AN OXYGEN FLUSHING MASS OF A CATALYTIC CONVERTER AND FOR CONTROLLING AN AIR-FUEL RATIO OF AN INTERNAL COMBUSTION ENGINE TAKING INTO ACCOUNT THE DETECTED OXYGEN FLUSHING MASS

Title (de)

VERFAHREN ZUM EINSTELLEN EINER SAUERSTOFFSPÜLMASSE EINES KATALYSATORS UND ZUR STEUERUNG EINES LUFT-KRAFTSTOFFVERHÄLTNISSES EINES VERBRENNUNGSMOTORS UNTER BERÜCKSICHTIGUNG DER ERFASSTEN SAUERSTOFFSPÜLMASSE

Title (fr)

PROCÉDÉ POUR AJUSTER UNE MASSE DE RINÇAGE À L'OXYGÈNE D'UN CONVERTISSEUR CATALYTIQUE ET POUR COMMANDER UN RAPPORT DU MÉLANGE AIR-CARBURANT D'UN MOTEUR À COMBUSTION INTERNE EN TENANT COMPTE DE LA MASSE DE RINÇAGE À L'OXYGÈNE DÉTECTÉE

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Abstract (en)

[origin: WO2022207162A1] The invention relates to a method for adjusting an oxygen flushing mass of a catalytic converter (11) and for controlling an air-fuel ratio AFR of an internal combustion engine (10), comprising the steps: i. calculating an oxygen flushing mass O5 from a quantity of air flowing into the internal combustion engine (10) and a quantity of fuel flowing into the internal combustion engine (10) and by forming an integral from an increase in a quantity of oxygen stored in the catalytic converter (11) from a point in time t1 at which an air-fuel ratio AFR begins to lean until a point in time t2 at which an oxygen content measured by a lambda sensor (13) arranged downstream of the catalytic converter (11) exceeds a limit value, and ii. performing a catalytic converter flushing process by enriching the air-fuel ratio AFR, taking into account the calculated oxygen flushing mass O5.

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