

Title (en)
METHOD AND DEVICE FOR DETECTING A NO_x CONCENTRATION OF AN EXHAUST GAS STREAM PERTAINING TO A COMBUSTION ENGINE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG EINER NO_x-KONZENTRATION EINES ABGASSTROMES EINER VERBRENNUNGSKRAFTMASCHINE

Title (fr)
PROCEDE ET DISPOSITIF POUR DETERMINER LA CONCENTRATION DE NO_x DANS LE COURANT DE GAZ D'ECHAPPEMENT D'UN MOTEUR A COMBUSTION INTERNE

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Abstract (en)
[origin: WO0155565A2] The invention relates to a method and a device for detecting a NO_x concentration of an exhaust gas stream of a combustion engine by means of a NO_x-sensitive measuring device, especially a NO_x sensor, that is arranged downstream in relation to a NO_x storage catalyst in an exhaust gas section of the combustion engine. According to the invention, a search for a minimum (min) of a signal curve (SK) pertaining to the measuring device (18) is carried out in an operational phase of the combustion engine (10), whereby the NO_x concentration passes through a value close to zero on the position of the NO_x-sensitive measuring device (18) during said phase. The detected minimum (min) is taken over as the zero point for calibrating the measuring device (18).
[origin: WO0155565A2] The invention relates to a method and a device for detecting a NO_x concentration of an exhaust gas stream of a combustion engine by means of a NO_x-sensitive measuring device, especially a NO_x sensor, that is arranged downstream in relation to a NO_x storage catalyst in an exhaust gas section of the combustion engine. According to the invention, a search for a minimum (min) of a signal curve (SK) pertaining to the measuring device (18) is carried out in an operational phase of the combustion engine (10), whereby the NO_x concentration passes through a value close to zero on the position of the NO_x-sensitive measuring device (18) during said phase. The detected minimum (min) is taken over as the zero point for calibrating the measuring device (18).

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