

Title (en)

SENSOR FOR DETERMINING THE CONCENTRATION OF OXIDISABLE ELEMENTS IN A GAS COMPOUND

Title (de)

SENSOR ZUR BESTIMMUNG DER KONZENTRATION OXIDIERBARER BESTANDTEILE IN EINEM GASGEMISCH

Title (fr)

DETECTEUR POUR DETERMINER LA CONCENTRATION DE CONSTITUANTS OXYDABLES D'UN MELANGE GAZEUX

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Application

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Abstract (en)

[origin: DE19623434A1] The invention concerns a sensor for determining the concentration of oxidisable elements in a gas compound, in particular for determining one or more of the gases, NO_x, CO, H₂ and especially unsaturated hydrocarbons, by measuring the tension between a measuring electrode (1, 2) and a reference electrode (3) or by measuring the tension between two measuring electrodes [(1) and (2)]. Selectivity of response for individual components of the measured gases can be improved by using specific material for the measuring electrodes, in particular semiconductors. By using porous fixed electrolytes, a reference gas atmosphere can be avoided and, therefore, increased miniaturisation and constructive simplification can be achieved.

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