

Title (en)

SENSOR TO DETERMINE THE GAS COMPONENT CONCENTRATION IN GAS MIXTURES

Title (de)

SENSOR ZUR BESTIMMUNG DER KONZENTRATION VON GASKOMPONENTEN IN GASGEMISCHEN

Title (fr)

CAPTEUR PERMETTANT DE DETERMINER LA CONCENTRATION DE GAZ DANS DES MELANGES GAZEUX

Publication

**EP 0698208 A1 19960228 (DE)**

Application

**EP 95910421 A 19950228**

Priority

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- DE 4408504 A 19940314

Abstract (en)

[origin: DE4408504A1] The proposal is for a sensor for determining the gas component concentration in gas mixtures. The sensor has a solid oxygen-ion-conducting electrolyte (10) having a first measuring electrode (11) which catalyses the equilibrium setting of the gas mixture and a second measuring electrode (12) which does not catalyse or only slightly catalyses the equilibrium setting of the exhaust gas, and a heating device (16) to control the temperature of the measuring electrodes (11, 12). The first (11) and second (12) measuring electrodes are arranged in different temperature regions of the solid electrolyte (10) in such a way that the catalytic activity of the measuring electrodes (11, 12) can be adjusted via the temperature. The sensor is particularly suitable for monitoring the function ability of catalysts in exhaust gas purification devices of internal combustion engines.

IPC 1-7

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IPC 8 full level

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