ABSTRACT

Oxygen sensor element (1) (ZrO_2 solid electrolyte etc.) for detecting oxygen concentration in an exhaust gas has a protective layer which is made of a heat-resistant metal oxide (5a) and which carries a component (5b) of a IIa subgroup element (Ca, Mg etc.) on the side exposed to the exhaust gas of the sensor element (1), at least a part of the protective layer being present as a nonstoichiometric compound (Ti oxide etc.) with respect to the heat-resistant metal oxide. Si-poisoning is prevented. A heater (6) for heating the sensor element is provided for preventing Si-poisoning at low temperatures.

figure B1

This Sheet Has Been Replaced

