

Title (en)
SENSOR ELEMENT FOR AN EXHAUST GAS SENSOR

Title (de)
SENSORELEMENT FÜR EINEN ABGASSENSOR

Title (fr)
ÉLÉMENT DE DÉTECTION POUR CAPTEUR DE GAZ D'ÉCHAPPEMENT

Publication
EP 4158325 A1 20230405 (DE)

Application
EP 21725058 A 20210504

Priority
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• EP 2021061670 W 20210504

Abstract (en)
[origin: WO2021239405A1] The invention relates to a ceramic sensor element for an exhaust gas sensor, extending from an exhaust gas-side end region (201) to a connection-side end region (202) in the longitudinal direction. The exhaust gas-side end region (201) is equipped with a functional element (31) which is connected to a contact surface (43, 44, 45, 46) via a conductor track (320, 221, 222, 328), said contact surface being arranged on the outer surface of the sensor element (20) in the connection-side end region (202). The contact surface (43, 44, 45, 46) has an inner layer (43', 44', 45', 46') and an outer layer (43'', 44'', 45'', 46'') arranged thereon. The inner layer (43', 44', 45', 46') has a higher degree of hardness and/or a smaller content of precious metal than the outer layer (43'', 44'', 45'', 46'') and is only partly covered by the outer layer (43'', 44'', 45'', 46'').

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