

Title (en)

METHOD FOR PRODUCING A SENSOR, AND SENSOR

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SENSORS SOWIE SENSOR

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN CAPTEUR ET CAPTEUR

Publication

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Application

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Abstract (en)

[origin: WO2022236354A1] The invention relates to a method for producing a sensor which has a circuit with a plurality of sensor substances. According to the invention, electrical conductivities of sensor substances of a sensor substance list, which sensor substances each have an electrical conductivity dependent on the concentration of one or more gases in an environment of the sensor substance, are measured in environments having different concentrations of different gases and optionally different humidity mixing ratios and/or different temperatures in order to determine sensitivities of the conductivities of the individual sensor substances for the different gases; the measured conductivities and the determined sensitivities of the sensor substances of the sensor substance list are stored in a database, and subsequently, in accordance with requirements for the sensor with respect to gas concentrations in an environment which are to be ascertained by means of the sensor and predefined usage conditions, more particularly with respect to a humidity mixing ratio and/or a temperature, at least two sensor substances of the sensor substance list are selected for the gas concentrations to be ascertained, on the basis of the database-stored sensitivity of each sensor substance, and are integrated into an electrical circuit such that a conductivity of the sensor substances can be measured, so that, for the gas constituent to be determined, the concentration of said gas constituent and/or a change in the concentration of said gas constituent in the environment of the circuit can be determined by measurement of the conductances of the sensor substances in the circuit and/or by measurement of changes in the conductances of the sensor substances in the circuit. The invention also relates to a sensor for measuring gas constituents in the air of an environment, comprising an electrical circuit which has at least two sensor substances of a sensor substance list, wherein conductivities of the sensor substances can be ascertained by means of the circuit. Furthermore, the invention relates to a method for ascertaining gas constituents in an environment.

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