

Title (en)

SENSOR ELEMENT FOR A CHEMICAL SENSOR AND CHEMICAL SENSOR

Title (de)

SENSORELEMENT FÜR EINEN CHEMISCHEN SENSOR UND CHEMISCHER SENSOR

Title (fr)

ÉLÉMENT DE CAPTEUR POUR CAPTEUR CHIMIQUE ET CAPTEUR CHIMIQUE

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Application

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Abstract (en)

[origin: WO2017010932A1] The present invention provides a sensor element (10) for a chemical sensor with a substrate with a first electrode (14a) and a second electrode (14b) designed for a voltage application and a sensing layer (18) comprising at least a first material, wherein, in case that at least one target analyte (12) is present, an electric field (E) within the sensing layer (18) is changed, wherein the sensor element (10) also comprises a conducting layer (20) comprising at least a second material, wherein the conducting layer (20) provides an electrical connection between the first electrode (14a) and the second electrode (14b) and is covered at least partially by the sensing layer (18), and wherein an electric field (E) or a Fermi level is changed within the conducting layer (20) in case that the electric field (E) within the sensing layer (18) is changed.

IPC 8 full level

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