

Title (en)

TIN OXIDE BASED GAS SENSORS AND METHOD FOR THEIR MANUFACTURE

Title (de)

GASSENSOREN BASIERT AUF ZINNOXYD UND VERFAHREN ZUR DEREN HERSTELLUNG

Title (fr)

CAPTEURS DE GAZ A BASE D'OXYDE DE STANNATE ET LEUR PROCEDE DE FABRICATION

Publication

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Application

EP 94924914 A 19940822

Priority

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Abstract (en)

[origin: WO9508764A1] A method for fabricating gas sensors having reproducible gas sensitivity characteristics and the gas sensors so produced. The method comprises the steps: a) hydrolysis of sterically hindered tin(IV) alkoxide dissolved in a polar organic solvent in the presence of a polymer of relatively low molecular weight having a functional group capable of coordinating to tin; b) treatment of the resulting solution with a strong mineral acid to remove the polymer; c) isolation of the solid suspension; d) deposition and subsequent heat treatment at temperatures below 500 DEG C of an amount of the solid on a suitable substrate to produce a gas sensor head and e) sensitization of the gas sensor head.

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