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The invention relates to electrical measuring engineering, in particular to gas sensors based on nanocrystalline films of copper oxide doped with silver.

The gas sensor based on semiconductor oxides, according to a first embodiment for ethanol, comprises a glass substrate, on one surface of which is deposited by the method of chemical synthesis from solutions a $\text{Cu}_2\text{O}:\text{Ag}$ film of a thickness of 1 μm , which is thermally treated at 650°C for 30 min. The ohmic contacts are deposited on the film and are made in the form of a meander.

The gas sensor based on semiconductor oxides, according to a second embodiment for hydrogen, comprises a glass substrate, on one surface of which is deposited by the method of chemical synthesis from solutions a $\text{Cu}_2\text{O}:\text{Ag}$ film of a thickness of 1 μm , which is thermally treated at 450°C for 30 min. The ohmic contacts are deposited on the film and are made in the form of a meander.

Claims: 2

Fig.: 3