

The invention relates to the technology of semiconductor micro- and nanoelectronics, in particular to the sol-gel technology for producing continuous zinc oxide films and can be used in the production of optoelectronic devices. The sol-gel method for producing continuous microcylindrical zinc oxide films in glass shell comprises the preparation of the zinc oxide film forming solution - sol, deposition of a thin sol layer on the inner surface of one or several glass microcapillaries by centrifugation, drying of microcylindrical films in vacuum at 300...350°C, iteration of the deposition and drying procedures several times, heat treatment in air at 450...550°C for 1 hour, followed by heat treatment at 500...550°C under vacuum at a pressure of  $1 \cdot 10^{-3}$  mm Hg within 1...4 hours, after which the vacuum-processed microcapillaries with the obtained microcylindrical films are cooled, and their ends are sealed *in situ* at the temperature of curing and drying of the sealing material.

Claims: 1

Fig.: 1