

96-0233

The invention relates to the technology for growing of crystals by resublimation, which may be used in the optoelectronics.

The summary of the invention consists in the fact that the process of crystals growing from the vapour phase by resublimation in the growing ampoule of changeable diameter, includes the initial material heating in the vaporisation zone, crystals growing on the contracted ampoule end executed in the form of the open capillary tube, the condensation of the volatile admixture vapours in the cold zone, moreover, the growing ampoule is situated in the closed vacuum system, and the volatile admixture condensation is carried out at the room temperature.

The technical result of the invention consists in the increasing of the mass transfer velocity, of crystals velocity growing, purification of crystals from the high-volatile and nonvolatile agents.