

The invention relates to the field of optoelectronics and may be used in the fiber-optic data transmission systems.

Summary of the invention consists in that the self-focusing optical fiber contains a shell with core, placed between two control electrodes. With that the shell is made in the form of a plastic tube, and the core – in the form of a colloidal suspension of powders  $\text{PbTiO}_3$  and  $\text{SrTiO}_3$  in polyethylsiloxane oil.

Claims: 1

Fig.: 1