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The invention relates to the field of optoelectronics and is destined for manufacture of filtering lens with variable focal distance, used in fiber-optic data transmission systems and in optical data saving and processing systems.

The cylindrical lens contains a core and a shell in the form of a tube, made of plastic material, and the core – as a magnetorheological liquid, in the capacity of which may be used a disperse system of $Y_3Fe_5O_{12}$ powder and polyethylsiloxane oil. The cylindrical lens is coaxially placed inside the consecutively disposed along it induction coils.

Claims: 2

Fig.: 2