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The invention relates to the field of instrument engineering and may be used for controlling the radiation optical power, transmitted over light guides in the medical and industrial devices, as well as in the optical communication lines.

The optical variable attenuator contains a cylindrical body, in the longitudinal direct channel of which there are placed two optical fibre segments, the space between which is filled up with a light-conducting medium. Novelty consists in that into the body, made of dielectric material, perpendicular to the longitudinal direct channel there is additionally made a blind hole closed with a threaded plug, wherein under the plug there are freely placed a permanent magnet and a nickel spring-loaded core conjugate to it. In the free end of the core, placed between the faces of the optical fibre segments, there are made a through hole, the axis of which is parallel to the axes of optical fibres, and longitudinal skewings. Coaxially to the body in the core placement region there is mounted an inductance coil, and as light-conducting medium is used cedar oil.

Claims: 1

Fig.: 1