

Transmission

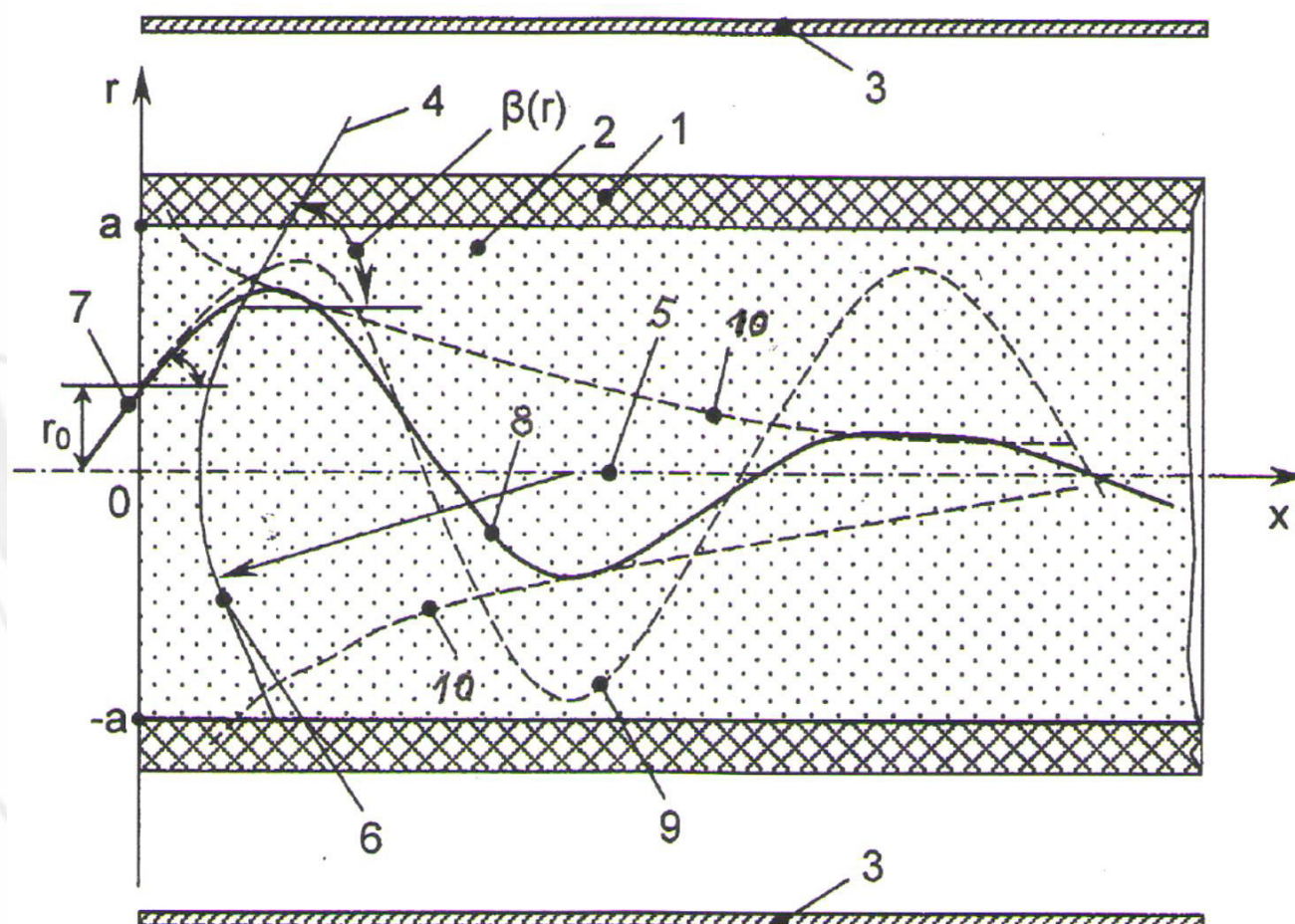
Medium data transport with restructurable effects

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The fiber optic substitution of the solid quartz core with an electroreological liquid core consisting of a colloidal suspension of $PbTiO_3$ and $SrTiO_3$ powders in polyethylsiloxane oil allows through selective form of force lines and electric field strength values to obtain a more reversible restructuring efficient refractive index profile and as a result, we obtain the transformation of the multimode mode of optical signal propagation into single mode at a distance of 8 ... 10 times smaller than for optical fiber with quartz core autofocus and at which autofocus is not restructurable.



Concept of Transmission
Medium data transport with restructurable effects.