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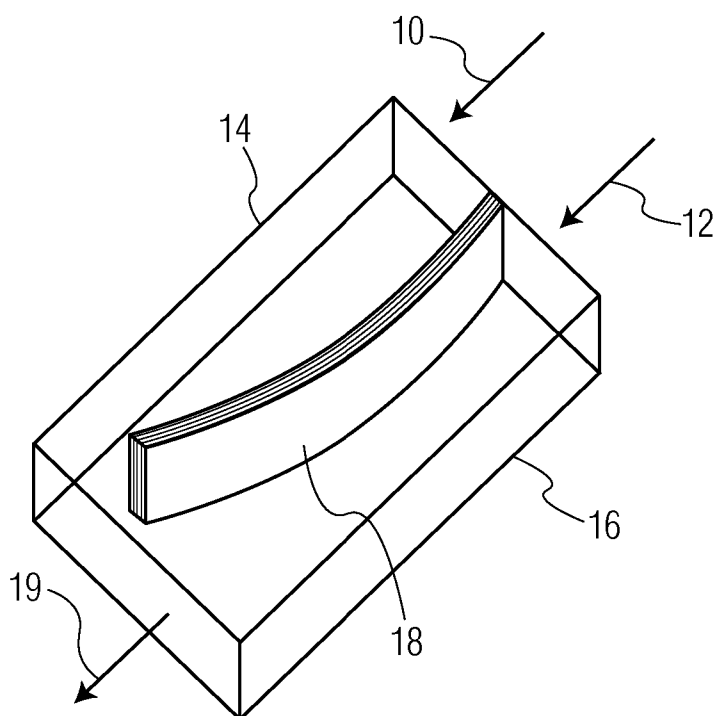
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(54) Title: LAYERED BENDING ELEMENT LIGHT SWITCH



(57) Abstract: A layered bending element light switch will be used to turn on or off the light signal in one of two adjacent fiber optic channels by the action of the electric field of the light passing through the channels. Layered bending element light switch can be made adjacent to each other so that the bending elements will latch together and stay in the state required by means of the shape of the ends of the elements. The bending is accomplished by the response of piezoelectric material to the electric field of light in the fiber optic channel. This will allow information to be stored by the layered bending element light switch that are made to latch. Light of different frequencies may travel in a light channel of appropriate dimensions together without hindering each other. The light that actuates the light switching or latching may be a different frequency than the light signal that is switched on or off. This switch holds the latched position required until light signals of the appropriate wavelength and power in the proper sequence are applied to the layered bending element light switch to cause the unlatching.

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