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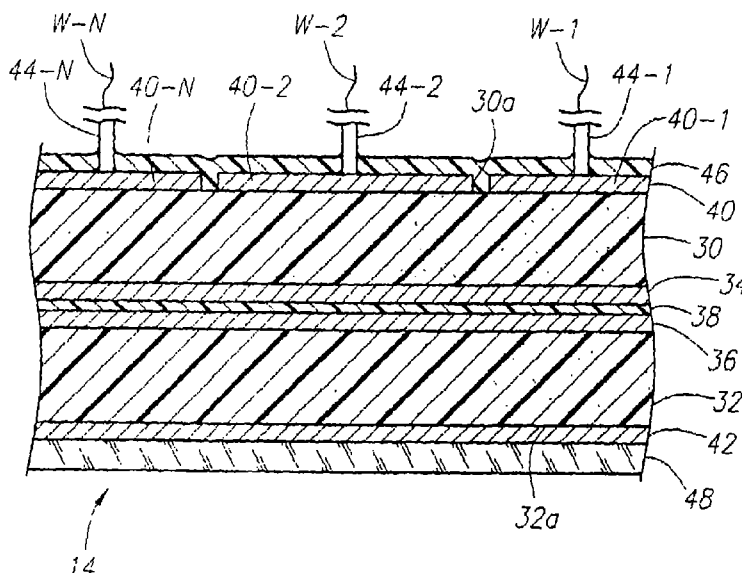
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(54) Title: DEFORMABLE CURVATURE MIRROR



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(57) Abstract: A deformable curvature mirror capable of controlled deformation by applying electrical voltages to electrode segments on the back of the mirror. Two plates (30 and 32) of an electro-restrictive material, such as PZT or PMN, are joined together with at least one conductive layer (34, 36) sandwiched therebetween. One plate has an outer conductive layer (42) and a mirrored surface (48) on the outer conductive layer. The conductive layers are electrically grounded. The other plate has a pattern of a plurality of electrode segments (40-N) on the outer surface with each electrode segment having a separate electrical terminal (44-N) for applying a variable electrical voltage thereto for separately transmitting a variable current through each said electrode segment and through at least the other plate for causing variable expansion of the plate and thereby selectively deforming that plate and, in turn, the deformable curvature mirror.

WO 02/059674 A1

A2

WO 02/059674 A1



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