

- [54] **POLARIZATION DEVICE**
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 [58] **Field of Search** 350/96.15, 96.16, 96.33

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[57] **ABSTRACT**

An optical element includes a polarization maintaining fiber, and an Indium film on a lapped region of the fiber that selectively couples light of one polarization out of the fiber. The film bonds to a coupling half block or cover plate, providing an hermetic seal about the fiber coupling region. Polarizers, polarizing couplers, polarization beamsplitters, and single mode resonant fiber ring constructions are described.

12 Claims, 3 Drawing Sheets

