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(54) **Title:** APPARATUS AND METHOD FOR WAVEGUIDE POLARIZER COMPRIZING SERIES OF BENDS

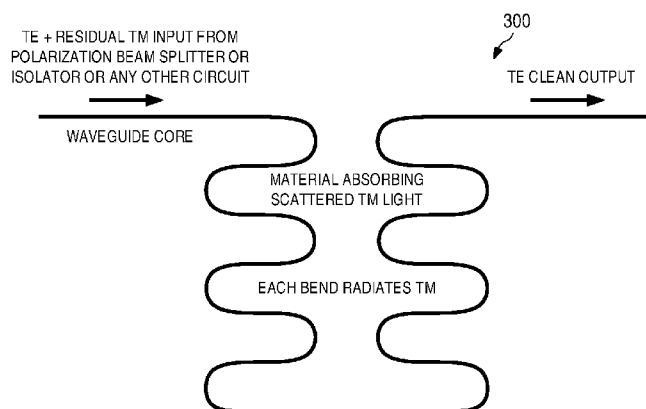


FIG. 3

(57) **Abstract:** An apparatus and a method for a waveguide polarizer comprising a series of bends are suitable for using in optical waveguide devices or circuits, where a polarized light is required, such as for single polarization output. The polarizer design is in-
dependent of the function of the optical devices. An optical polarizer comprises an optical waveguide configured to propagate light
at a designated polarization mode and comprising a bend in a same plane of the propagated light. The bend has a geometry con-
figured to contain in the optical waveguide the designated polarization mode of the propagated light and radiate outside the optical
waveguide a second polarization mode of the propagated light.

