

ABSTRACT

The present application relates to a polarization control apparatus and an optical system.

The polarization control apparatus comprises a polarization phase shifter, an input polarization rotator and an output polarization rotator, wherein the polarization phase shifter comprises a polarization phase shift structure, an input conversion structure and an output conversion structure, the polarization phase shift structure comprising a first waveguide, a first electrode and a second electrode, and the polarization phase shift structure being configured to adjust, under the control of the first electrode and the second electrode, the phase of a light wave in the first waveguide on the basis of a linear electro-optic effect of the first waveguide. The polarization control apparatus can obtain a relatively short waveguide length and can avoid operating under relatively high heat conditions, and thus the integration level, reliability and durability of the polarization control apparatus can be improved.

FIG. 2