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(54) Title: OPTICAL COHERENT IMAGER HAVING SHARED INPUT-OUTPUT PATH AND METHOD FOR SENSING COHERENT LIGHT

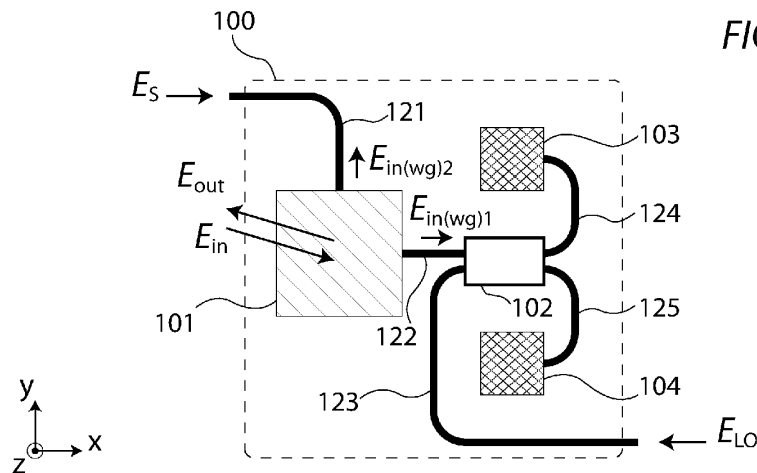


FIG. 1A

(57) Abstract: The present disclosure provides an optical coherent imager implemented on a photonic integrated circuit (PIC) that enables shared path for transmitting and receiving optical signals by exploiting polarization diversity. The present disclosure also provides an optical coherent imager including an array of the optical coherent sensing units to simplify the design and calibrations of the imager, and a method for coherent sensing by the optical coherent imager.



WO 2023/003550 A1