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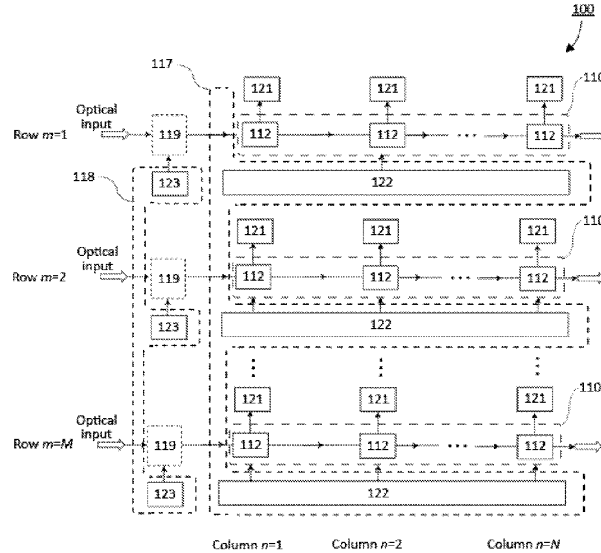


Fig. 1

(57) Abstract: An optical phased array for 2D steering of an optical beam comprising an optical waveguide, with each waveguide having a plurality of scatterers. A first segment of the optical waveguide is adapted to steer the optical beam in an x-direction, and the first segment comprises a first optical phase shifter. A second segment of the optical waveguide is adapted to steer the optical beam in a different direction than the first segment, and the second segment comprises a second optical phase shifter.

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