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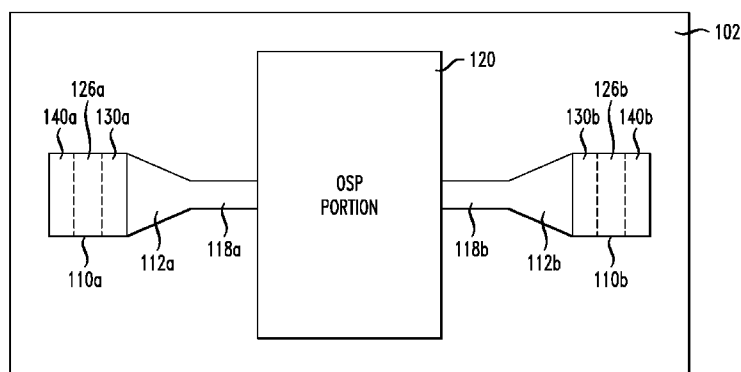
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(54) Title: PHOTONIC INTEGRATED CIRCUIT HAVING A WAVEGUIDE-GRATING COUPLER

FIG. 1

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(57) Abstract: A photonic integrated circuit (PIC) having a waveguide-grating coupler with two evanescently coupled waveguides. The first waveguide is fabricated using materials suitable for manufacturing active optical elements in the PIC. The second waveguide is fabricated using materials capable of providing a relatively high index - of-refraction contrast for the constituent waveguide grating. The waveguide-grating coupler is compatible with the III -V semiconductor technology while being relatively easy to fabricate on an industrial scale.