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(54) Title: METHOD AND SYSTEM FOR CO-PACKAGED OPTICS

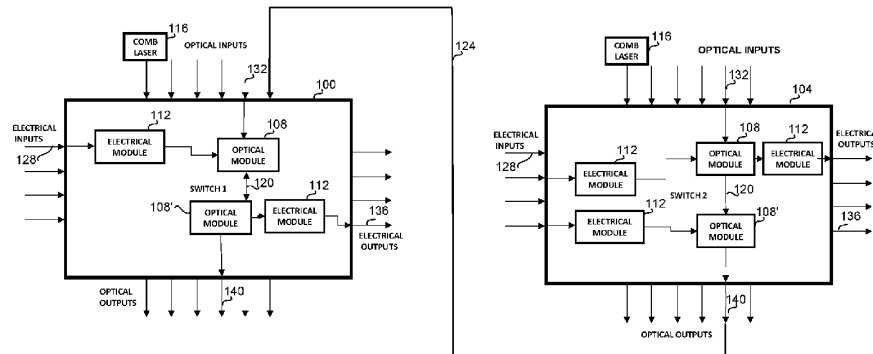


FIG. 1

(57) Abstract: Described is a communication system having a transmitter comprising a first optical module, the first optical module comprising a plurality of Micro-Ring Modulators (MRMs); and a receiver comprising a second optical module, the second optical module comprising a plurality of Micro Ring Resonators (MRRs), wherein the first optical module and the second optical module are connected by an optical waveguide; and at least one comb laser external to an optical co-package comprising the transmitter or the receiver, the at least one comb laser irradiating the optical waveguide, the at least one comb laser emitting light in a plurality of wavelengths, where at least one first MRM and at least one first MRR are adjusted to operate in at least one first wavelengths from the plurality of wavelengths, and at least one second MRM and at least one second MRR are adjusted to operate in at least one second wavelength from the plurality of wavelengths.

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