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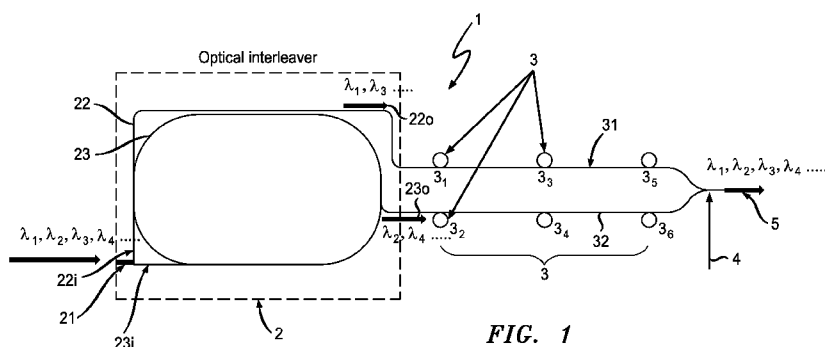
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- (54) **Title:** TRANSMITTER AND METHOD FOR OPTICAL TRANSMISSION

**FIG. 1**

- (57) **Abstract:** An optical multi-wavelength transmitter comprising an optical interleaver with at least a first optical waveguide and a second optical waveguide; a first plurality of microcavity modulators coupled to the first optical waveguide and a second plurality of microcavity modulators coupled to the second waveguide. A plurality of optical wavelengths received at an input of the interleaver are separated into a first group of separated optical wavelengths for being input in the first optical waveguide and a second group of separated optical wavelengths for being input in the second optical waveguide. Each one of the first and the second group of separated optical wavelengths have a separated wavelength spacing between adjacent separated optical wavelengths. A method of optical multi-wavelength transmission is also disclosed.