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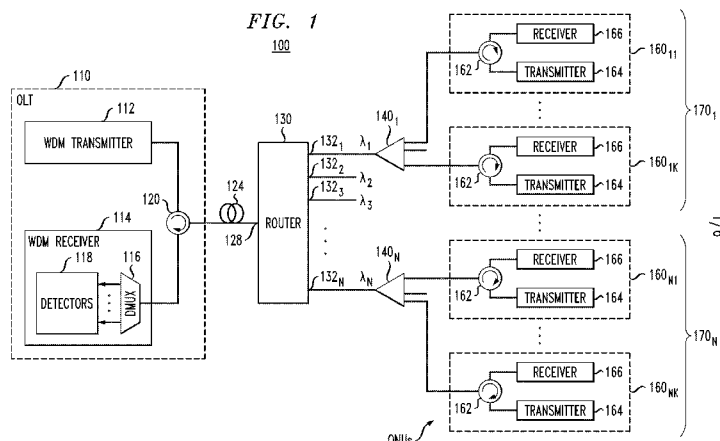
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(54) Title: WAVELENGTH ROUTER FOR A PASSIVE OPTICAL NETWORK



(57) Abstract: A passive arrayed-waveguide-grating (AWG) router that can be used to implement the dual functionality of a wavelength router and a 3-dB power splitter for one of its wavelength channels while functioning as a conventional wavelength router for the other wavelength channels. The passive AWG router can advantageously be used, e.g., in a WDM-PON system to reduce the insertion-loss disparity between the various wavelength channels that are being used to broadcast optical signals from an optical line terminal located at the service provider's central office, through the passive AWG router, to a plurality of optical network units located near the end users.