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(54) Title: CIRCUITS AND METHODS FOR PHOTONIC WAVELENGTH DIVISION MULTIPLEXERS

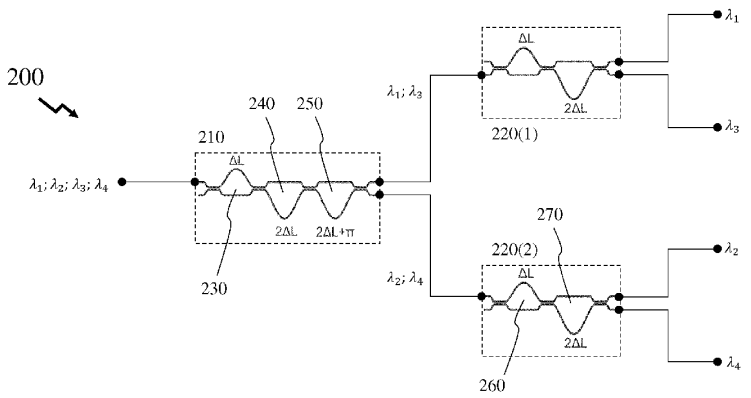


Figure 2

(57) Abstract: Photonics has become a dominant or evolving technological solution for communications to meet the increasing demand for bandwidth. Wavelength division multiplexing (WDM) enables an optical fiber to support multiple concurrent optical signals each at a different wavelength. However, fabrication tolerances can impact the performance of these WDM multiplexers and demultiplexers. However, active deployments with active thermal control of the WDM can lead to increased electrical consumption which can increase initial deployment and lifetime operating costs. Accordingly, it would be beneficial if control methodologies and circuits could be established which reduce thermal control power requirements.

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