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(71) Applicant: METHODE ELECTRONICS, INC. [US/US]; 7444 West Wilson Avenue, Chicago, IL 60656-4549 (US).

(72) Inventors: GILLILAND, Patrick, B.; 5451 North East River Road, Chicago, IL 60656 (US). GORYACHEV, Andy, A.; 722 East North Broadway, 2W, Lombard, IL 60148 (US).

(74) Agent: BARRETT, Robert, M.; Hill, Steadman & Simpson, Sears Tower, 85th floor, 233 South Wacker Drive, Chicago, IL 60606 (US).

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(54) Title: OPTOELECTRONIC TRANSCEIVER MODULE LASER DIODE STABILIZER AND BIAS CONTROL METHOD

(57) Abstract

A power stabilizer maintains a constant level of output power from a laser transmitter. The laser transmitter has a laser diode which produces an optical output which corresponds to the level of bias current received. In addition, the laser transmitter has a photodiode which produces a feedback signal which corresponds to the optical output power being produced by the laser diode. Furthermore, the power stabilizer consists of a digitally controlled potentiometer for producing a reference input signal and an op-amp for comparing the feedback signal and the reference input signal to produce a control signal to supply the bias current.