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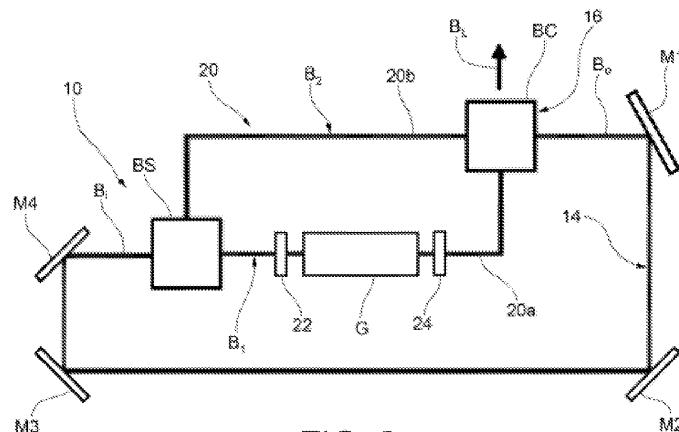


FIG. 2

(57) Abstract: A laser device adapted to emit a coherent optical radiation is described that includes an optical beam amplifier system (12) comprising a single interferometric optical amplification arrangement (20) or a plurality of interferometric optical amplification arrangements (20, 20') in series, each said interferometric optical amplification arrangement (20) comprising a Mach-Zehnder type interferometer with an amplification arm (20a) including an active gain region (G) and a passive propagation arm (20b) not including a gain region. The laser device (10) further comprises an optical return path (14) to conduct the beam (B0) emerging from the optical beam amplifier system (12) to an input of the optical beam amplifier system so as to form an optical ring resonant structure, and a radiation output element arranged to extract a portion of the beam emerging from the amplifier system and deliver the portion of the beam extracted as output radiation (BL) of the laser device.

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