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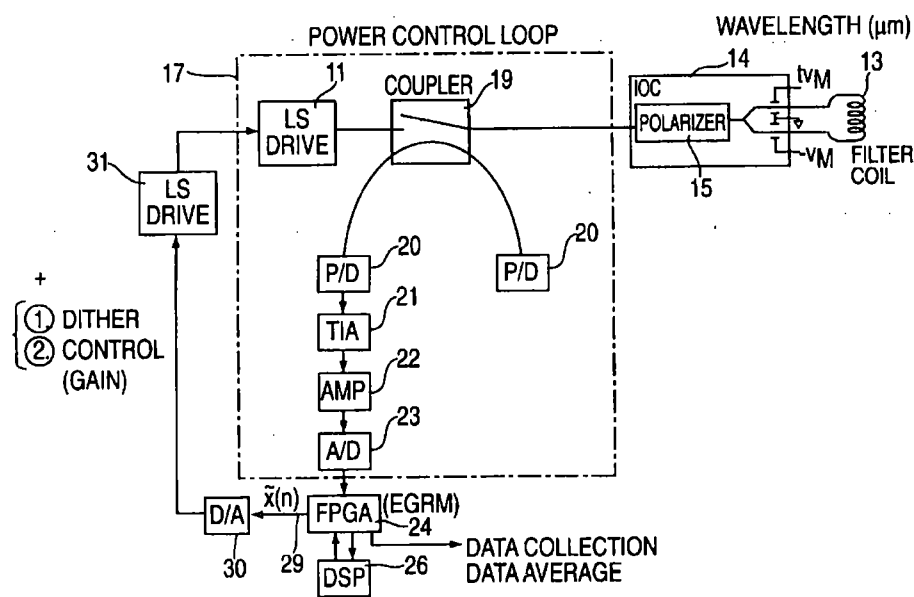
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(54) Title: DITHERING SYSTEM AND METHOD FOR A LASER DIODE LIGHT SOURCE FOR AN OPTICAL GYROSCOPE



(57) Abstract: A system and method are provided for improving spectrum linewidth and stability while using the lasing region of a conventional laser diode light source. The inventive system and method provide a dithering signal for varying the drive current of the laser diode light source. By varying the drive current, the spectrum linewidth and stability of the conventional laser diode light source is significantly improved. Specifically, an optic fiber gyroscope (10) can be driven by a conventional laser diode source (11) which is powered by a dithered drive signal from the light source circuit (31).

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