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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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(54) Title: OPTICAL MEMS DEVICE AND REMOTE SENSING SYSTEM UTILIZING THE SAME

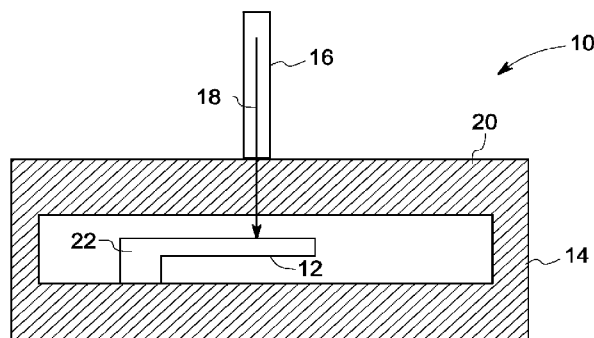


FIG. 1

(57) Abstract: A remote sensing system comprises a micro-electromechanical sensor (MEMS) device comprising an optical energy absorbing sensing element that resonates by thermal expansion induced by absorption of optical signals, a remotely located optical source for transmitting driving optical signals to induce resonance in the sensing element, and a remotely located reader circuitry to read an original frequency of the sensing element using reader optical signals for determining a condition to which the MEMS device is exposed.



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