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(71) Applicant (for all designated States except US): **THE AUSTRALIAN NATIONAL UNIVERSITY** [AU/AU];
 Acton, Australian Capital Territory 0200 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LITTLER, Ian, C., M.** [AU/AU]; 40 Thames Street, Balmain, New South Wales 2041 (AU). **CHOW, Jong, H.** [AU/AU]; 66A Hawdon Street, Ainslie, Australian Capital Territory 2602 (AU). **MCCLELLAND, David, E.** [AU/AU]; 68 Miller Street, O'Connor, Australian Capital Territory 2602 (AU).

(74) Agents: **LESLIE, Keith** et al.; DAVIES COLLISON CAVE, 1 Nicholson Street, Melbourne, Victoria 3000 (AU).

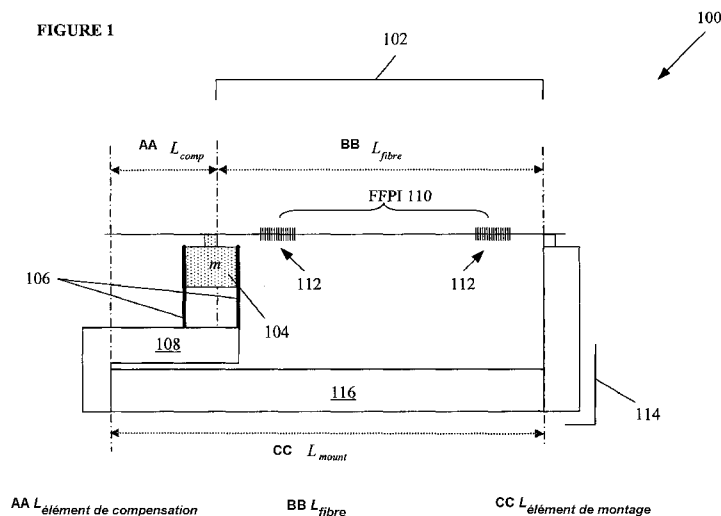
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(54) Title: A SYSTEM, DEVICE AND METHOD FOR DETECTING SEISMIC ACCELERATION



(57) Abstract: A device for detecting seismic acceleration including a proof mass; a base for providing a sensor acceleration, relative to the proof mass, based on the seismic acceleration; an optical fibre portion operatively connected between the proof mass and the base for providing a fibre tension based on the sensor acceleration, a fibre Fabry-Perot interferometer (FFPI) in the optical fibre portion for providing an optical characteristic representative of the fibre tension, and a compensator for applying a compensating tension to the FFPI to compensate for a change of the optical characteristic due to a temperature change of the FFPI.