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(57) Abstract :
THREE-LASER BEAMS DETECTION ARRANGEMENT FOR MEASUREMENT OF GRAVITATIONAL ACCELERATION The present subject matter relates to three-laser beams detection arrangement for measurement of gravitational acceleration comprising a long polyvinyl chloride (PVC) pipe (101) having three-level detection points (L1, L2, L3); three laser LEDs (LD1, LD2, LD3) and three detectors (D1, D2, D3) fixed exactly with each level on opposite sides of the outer surface of the PVC pipe (101). Further, a transistor goes to a cutoff region making collector-emitter voltage high around 5V when an object cuts the laser beam during its motion downwards due to a gravitational field, and hence the transistor remains at the cutoff region as long as the object passes through the laser beam such that the object crosses the other two beams. The object travels downwards by more and more distances, thereby increasing the velocity due to gravitational acceleration (g). Here transistor BC108 is uniquely used as a laser detector. The derived equation for g is a function of distance and time. The numerator term of the derived equation is always positive irrespective of distances between the laser beams.

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फाइल करने की तारीख / Date of Filing : 26/09/2020

पेटेंटी / Patentee : Dr. Sadhan Chandra Das

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *THREE LASER BEAMS DETECTION ARRANGEMENT FOR MEASUREMENT OF GRAVITATIONAL ACCELERATION* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2020 के छब्बीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *THREE LASER BEAMS DETECTION ARRANGEMENT FOR MEASUREMENT OF GRAVITATIONAL ACCELERATION* as disclosed in the above mentioned application for the term of 20 years from the 26th day of September 2020 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 26/03/2024
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पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2022 के छब्बीसवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 26th day of September 2022 and on the same day in every year thereafter.