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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

19nd MAY, 2023

(54) Title of the invention : TEST TUBE RACK FOR ENHANCING AEROBIC MICROBIAL GROWTH, BIOMASS, AND METABOLITES

<p>(51) International classification :B01L 090600, C02F 033000, C12M 011070, C12M 013400, C12N 012600</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Swami Rama Hiamalayan University Address of Applicant :Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016,India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Vivek Kumar Address of Applicant :Associate Professor, Himalayan School of Bio-Sciences, Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016, India -----</p> <p>2)Renu Chaudhary Address of Applicant :Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016, India -----</p> <p>3)Mr. Sandeep Kumar Address of Applicant :Associate Professor, Mechanical Engineering Department, Himalayan School of Science & Technology, Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016, India -----</p> <p>4)Dr. Chandra Shekhar Nautiyal Address of Applicant :Principal, Himalayan School of Bio-Sciences, Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016, India -----</p>
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(57) Abstract :

The present invention meets these needs to solve the above-mentioned problems of fast and economical screening of beneficial microorganisms using an inexpensive apparatus using test tubes. The present invention describes a design consisting of two plates (2). The plates are connected by a pin joint (8) to adjust the suitable space between them. The 2 plates are fixed on a shaker platform (1) using a clamp (7) at an optimal angular position for the growth of microbial culture in a liquid media by using test tubes (3). The slots (6) are given on both the plates, which are die cavities, to hold the test tubes during motion (3). The design of the test tube holder consists of a clamping mechanism (4) using a nut and screw.

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