

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 24/2025
ISSUE NO. 24/2025

शुक्रवार
FRIDAY

दिनांक: 13/06/2025
DATE: 13/06/2025

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**

13th June, 2025

(54) Title of the invention : CENTRIFUGE TUBE FEATURING AN INBUILT TEMPERATURE-CONTROLLED COOLING SYSTEM

(51) International classification :B01L0003000000, B01L0003020000, B04B0005040000, G01N0035000000, B04B0007020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention discloses a centrifuge tube with an inbuilt cooling system and a detachable bottom. The tube comprises a tubular main body and a removable bottom part containing a cooling gel cavity to maintain reduced temperatures during centrifugation in non-refrigerated environments. The detachable bottom is secured using a locking mechanism such as screw-fit, bayonet-fit, or snap-fit, and includes sealing features like O-rings for leak-proof operation. The tube is made of chemically resistant, biocompatible materials and includes volume indicators for easy monitoring. The detachable bottom includes an inward recess to collect and preserve the pellet, facilitating efficient sample recovery. The design ensures compatibility with standard centrifuge rotors and allows easy pellet access without pipetting. This structural arrangement enhances sample stability, minimizes contamination, and simplifies post-centrifugation procedures, offering significant advantages in laboratory workflows. Figure 2

No. of Pages : 25 No. of Claims : 7