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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**

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(54) Title of the invention : CENTRIFUGE TUBE FOR SAMPLE EXTRACTION

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(57) Abstract :

The present invention relates to a centrifuge tube with a detachable bottom, designed to simplify the extraction of pelletized or settled material following centrifugation. The tube comprises a tubular body and a removable bottom portion, which allows direct access to the pellet, thereby minimizing sample loss and contamination. The detachable bottom includes a secure locking mechanism such as a screw-lock, bayonet-fit, or snap-fit, along with sealing elements to ensure leak-proof integrity during high-speed centrifugation. The device is compatible with standard centrifuge rotors and is fabricated from biocompatible, chemically resistant materials. This innovative design enables efficient sample handling in molecular biology, diagnostics, pharmaceutical research, and environmental science. The invention significantly enhances accuracy, speed, and reliability of post-centrifugation procedures by eliminating the need for pipetting or invasive extraction methods. Figure 1

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