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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 01<sup>st</sup> 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.

**( Om Prakash Gupta )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

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(57) Abstract :

ABSTRACT A continuous blood pressure monitoring apparatus comprising, a sensor unit to detect PPG signals from at least one of human body based arterioles, a filter unit for amplifying the detected PPG signals and to remove noise, a calibration unit to determine a blood pressure value from the filtered PPG signals, a display unit for displaying the blood pressure values on at least one of electronic display screen and a communication unit to transfer the blood pressure value wirelessly to a plurality of health care and monitoring units when the blood pressure value is abnormal. The calibration unit comprises a feature extraction module operative to detect a plurality of PPG signal characteristic points and a distance computation module operative to calculate distances between at least two sets of detected characteristic points. The characteristic points comprise minimum1, minimum2, peak1 and peak2 and the distance computation module determine distance between minimum1, minimum2, and peak1 and peak2.

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