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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.

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

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(57) Abstract :

Title: Robotic end effector for selective tea leaf harvesting ABSTRACT The robotic end effector for tea leaf harvesting adopts the selective harvesting approach, plucking a single tea flush per operating cycle, closely based on the manual tea picking method adopted by human tea pickers. The end effector comprises mainly of the container and the pitching subassembly. The pitching motor is clamped on one end to the container via the stationary clamp and to the pitching subassembly on the rotating end via the pitching clamp, facilitates rotation of the entire pitching subassembly. The pitching subassembly houses the gear subassembly and provides mounting bases for the gripping motor. The driving gear, directly coupled to the gripping motor, meshes with the driven gear forming the gear subassembly. Grippers at the end of each gear have contours on the gripping surface to grip the tea leaf stem and to avoid damage due to pinching, and also providing space underneath to mount a replaceable blade.

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