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(71)Name of Applicant :

**1)Dr. RUPAM KUMAR SHARMA**

Address of Applicant :H NO 31 SIXMILE, VIP, CHACHAL, UNIMUGDHANAGAR, GUWAHATI

**2)Dr. M. A. JABBAR**

(72)Name of Inventor :

**1)Dr. M. A. JABBAR****2)Dr. RUPAM KUMAR SHARMA**

(57) Abstract :

An automated robot that is designed to harvest selective tea bud in a tea plantation garden. The quality of a tea is determined by the amount of maturity of a bud that is plucked. A young three leaf bud and light green colour is usually considered a possible good candidate for good tea. However, such selective plucking is time consuming and needs a lot of human expertise and experience to identify it. This very specific problem could be overcome by the Automated Selective Tea Leaf Bud Harvesting machine. The robot have camera sensors as input and the images are fed to the learning algorithms pretrained to identify the target bud. Once the target bud is identified then the motor blades are rotated to cut the bud and collect. With proper dataset design and appropriate training, very