

## ABSTRACT

# TREE CLIMBING ROBOT HEXABOT FOR HARVESTING/ PESTICIDE SPRAYING

This is purely a mechanical project. Taking into consideration that the betel nut has to be cut into smaller diamond shape pieces and serve the purpose of mass production. The cutting blades are arranged in a particular fashion so that the betel nut or the dry fruits should cut in small pieces suitable for particular use. The force used in cutting of betel nut or dry fruits is shear force. The betel nut or dry fruit is fed into the hopper. From the hopper it enters into the cutting chamber where the betel nut is cut into the small sizes under the action of shearing force between rotatory blades. The space is provided so that after cutting into required size it should pass through it or it will be taken by blades for cutting.

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