PROTOTIPE ALAT PEMARUT KELAPA (Cocos nucifera) TIPE SILINDER BERTENAGA MOTOR LISTRIK

The Cylinder Type of Coconut Grater Powered by Electric Motor

Abstract

Coconut is the most extensively grown and used nut in the world and the most important of palms. Coconuts are far more important to humanity than statistic show because millions of people in tropical regions depend upon the coconut plantation for their livelihood. Coconuts are important as a source of food and shelter, as raw material for many small industries in the manufacture of products from the coconut husks, shells, meat, leaves, stems, and tree trunk. It is also exported in the form of fresh fruit, coir, copra, coconut oil, and desiccated coconut. Although coconut is a very strategic commodity to develop community economy, but until now it is not been able to give prosperity for most farmers. The are many problems are faced to increase economic value of coconut, and one of the key reasons is not many coconut farmers carry out product diversification due to lack of processing equipment. The objective of this research was to design cylinder type of coconut grater. The result was a prototype of mechanical coconut grater. The application of this machine by coconut farmer will increase added value of this commodity, which means the increasing of economic income. The resulted prototype has good performance with effective grating capacity 54.39 kg per hour and percentage of coconut milk 7.25 %.

[Key words: Coconut grater, cylinder type, prototype, electric motor]