SEMI AUTOMATIC COCONUT CUTTING MACHINE

ABSTRACT

Now a day’s the cutting of coconut takes place manually in the coconut oil firm with the help of sickle. Due to the usage of sickle it’s consumes more time to cut more number of coconuts. The involvement of man increases the labour cost and also more prone to accidents. As per of field work, the man can able to cut few coconuts in a specified time. In our project we can cut more coconuts continuously with the help of blade. Blade is connected with the AC motor for high speed cutting. The coconut is loaded by the operator on the V shape holder. This holder is connected with AC high torque motor. The holder move only in particular angle for exact cutting. We have another holder to avoid coconut thrown out from the v shape holder. After cutting, the coconuts fall in the tray which exactly placed below the blade. This machine has the simple and robust construction also has low cost compared to labour cost. This machine can be advanced by implementing conveyor which is capable of loading the coconuts on the V shaped holder. So that the machine can be fully automated. Sensors can also be used in the future to adjust the V shape holder for different sizes of coconuts which reduces the time for segregation of different sizes of coconuts. This system is mainly for coconut go downs and coconut oil mills, etc. It can be used in the temples where the numbers of coconuts are higher, food processing factories (biscuit and coconut bun), hotels and hostels can use this system.