



WALNUT CRACKER

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INNOVATOR

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PROBLEM ADDRESSED

Cracking walnuts manually is a slow and tedious process with low output, the maximum it can get is 10 kg/h. It is also injury prone at times, since the shell of cracked walnuts may fly

This machine can complete the entire process of cracking walnuts with an increased efficiency.

Walnut cracking is a seasonal activity. Therefore, if all available walnuts could be cracked in the limited time available, season could be well capitalized.



PRODUCT

Walnut cracker is a machine with wooden rollers to crack the walnuts for smoother impacting action. The motor incorporated in the machine has reduced RPM to increase the efficiency and reduce damage to walnuts of different sizes. The novelty lies in a motorized machine that will crack the walnuts automatically in such a way that it's useful fruit (kernel) could be separated easily which is otherwise done manually. Provision for manually adjusting the gap between the rollers is given in the machine to adjust gap between wooden rollers for different sizes of walnuts.

TECHNICAL DETAILS

- Overall size of the machine is 20" (Length) x 20" (Width) x 30" (Height) and weight of the machine is approximately 60 kg.
- Machine can be operated manually and also through an electric motor.
- Motor can be detached when device is not in use.

SALIENT FEATURES

- The device can process dry walnuts of various sizes, shapes and hardness and crack them open without damaging the kernel.
- It can also be used to break almond shell.
- It has great scope in food processing industries.

AWARDS AND RECOGNITION

Innovator has won National Award in NIF's Seventh National Biennial Award function for Grassroots Innovations and Traditional Knowledge, 2013.

