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(57) Abstract :

The proposed dung cake making apparatus (100) offers a sustainable solution for rural areas where access to electricity is limited. This apparatus (100) utilizes solar power to automate the collection, processing, and formation of dung cakes, traditionally used as fuel for cooking and heating. Equipped with collector gates (114-1, 114-2) and a chamber (112), the apparatus (100) efficiently gathers fresh dung from cows or buffaloes. A moisture sensor (118) ensures optimal moisture levels, while a heating unit (120) aids in drying if necessary. A user-friendly controller (122) control operations, signaling when the dung is ready for cake formation. With simple handlebars (102) manipulation, the apparatus moulds the dung into cakes and expels them through opening gates. Cost-effective, precise, and easy to maintain, this apparatus revolutionizes the production of cow dung cakes, offering a time-saving and space-saving alternative for rural households.

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