

Proposed harvester model for palm date fruit

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Facing the increasing of the date palm trees plantings in Algerian, it is increasingly planted, difficult to ensure the harvest in better moment due the lack of skilled workers and the high cost of this operation. These reasons have encouraged us to propose an alternative to this farming operation such is still carried out manually imposing hurting and dangerous efforts. Therefore, we have developed model of cluster dates harvesting machine. The proposed machine was designed in SolidWorks computer software. This harvesting machine includes four components, namely: stabilizing platform, lifting device, lowering device and cutting device, can be carried around manually and fixed at the base of any palm trunk and used to cut and lower whole clusters without having to climb the palm.

Keywords: mechanization, date palm, dates harvesting machine, SolidWorks, climbing of palm tree.