

## **AN INSTRUMENT FOR SETTING THE CLUSTER IN DATE PALM**

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A new date palm service instrument for resetting the cluster of the date palm invented and used by us. The invention have been documented in the Iraqi Patent's Office under No. 156/98. Since there is a need for resetting the cluster of the date in the stage of (Khalal) by freeing the cluster from the branch (sa'af) fixed on it. To resetting the cluster the worker need to climb up the date palm, but by using this instrument there is no need to do so. The instrument consist of long aluminum tube with three handle fixed at the lower end, each handle pull a steal wire attached to a lever at the upper end to transfers the power up. The instrument needs one worker to use it easily and to do the three steps in resetting the cluster which are: freeing the cluster up, then move it to aside and then pulling it down, the instrument used in a small study and proved to be effective, one worker can serve fifty date palms daily.