

DESIGN OF SEMI-AUTOMATIC SEEDER

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Abstract:

A quad copter is an UAV capable of being controlled by a remote over long distances. Using UAVs in agriculture has very much become the future of the sector. The aerial quad copter can be used for seeding the farms in agricultural lands. This not only reduces the man power required for sowing of seeds for a large farm but also prevents farmers dying due to sun stroke every year. The quad copter contains a seed carrier which stores seeds. The seed carrier is connected to a shaft which is paired with a motor. The centrifugal force in the seed carrier causes the seeds to be pushed out of the carrier through the small holes present at the bottom. The range of the seeds can be controlled by controlling the speed. As the speed of the carrier is increased, the speed at which the seeds exit the carrier also increases and hence the range increases. This reduces the time spent by the farmers in the sun for planting seeds.

Keywords- Agriculture, Automation, Sun Stroke, Quad copter, Seeder