

Title: Manual three row multi seed dibbler

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Details:

Sowing is one of the initial major steps of farming, which has to be accomplished with utmost care for high yield and proper growth of crops. Taking that into consideration, a manually operated traditional handheld dibbler was designed to improve upon the handheld dibbler. Originally the traditional dibbler is made of wooden stick and even most of the dibbler are of single pegs, as working with the single peg is time consuming process which leads to fatigue and discomfort. So, the improved dibbler has been fabricated with the specifications and materials in such a way that it consists of three pegs.

The improved dibbler consists of lever mechanism for the easy opening of the pegs to discharge the seeds into the soil. The funnel is provided for each peg to guide the seeds into the soil. Spring and nuts and bolts are the most critical components. Since it has been found that one of the reasons of the unsatisfactory performance of traditional dibbler is due to the failure of proper spacing and depth. As depth and spacing adjustment varies from crop to crop. So, the improved dibbler was calibrated with proper spacing between the pegs. As the tool should be strong enough to work in different soil conditions the improved dibbler was constructed using MS steel for strong handle and frame to increase its longevity. The CAD model of the design is shown in Fig. 1.

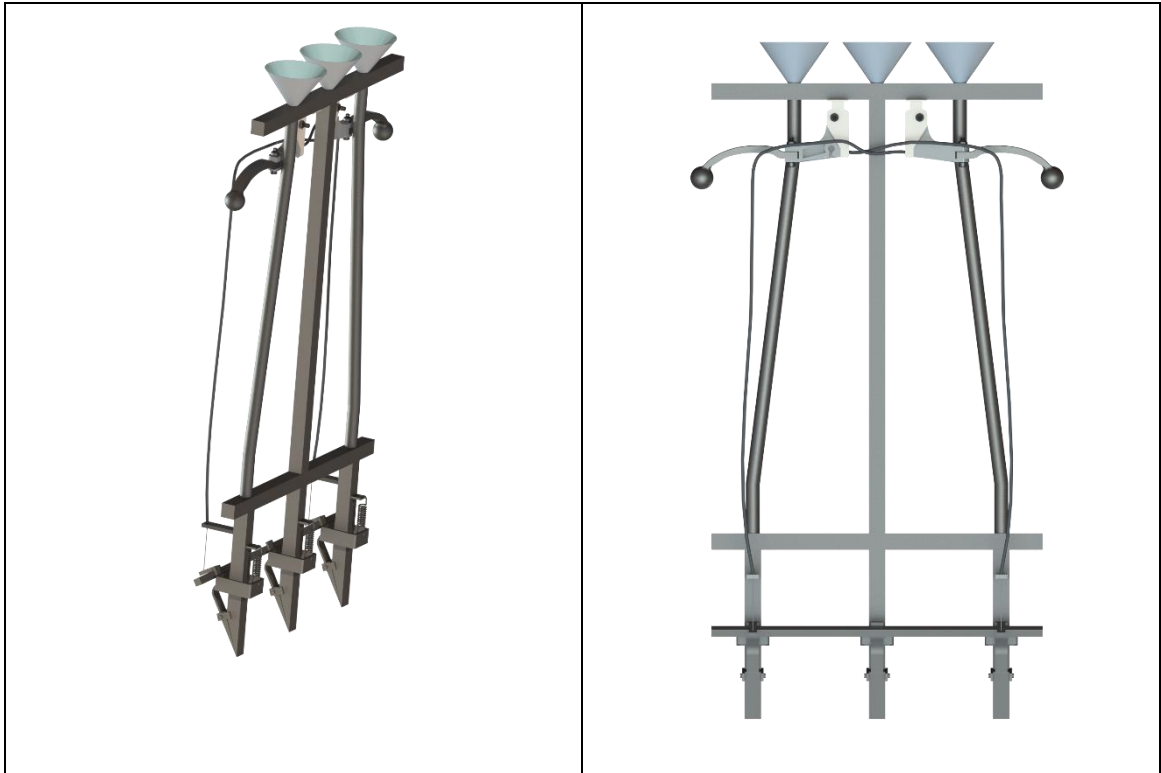


Fig.1: CAD model of the designed dibbler showing isometric and front views.