

This machine is designed for reaping only; is supported by two wheels, one of which drives the gearing that carries the rakes, the other an outside grain wheel that supports the platform.

The finger beam and cutting apparatus are located opposite the centre of the driving wheel.

The driver's seat is supported on the outer end of the main axle, out of the way of the gearing and machinery.

The main frame and cutting apparatus are connected to the axle plate of the driving wheel in such a manner that they are free to be raised or lowered and fastened to any required height from two to eighteen inches. The machine is also provided with a lever, which is connected with the hinged tongue in such a manner that the driver can raise and lower the cutting apparatus at pleasure, while passing along. By this arrangement the platform can in an instant be tilted so that the rakes strike below the cutting apparatus, and nearly to the ground to pick up the laid grain.

The apparatus for gathering and discharging the grain is combined in one device, and consists of five rakes attached to arms which are pivoted to a central hub or head. All of these rakes act in gathering the grain; any one of them may be used to discharge the grain at the will of the operator, or either of them may be set to discharge the gavel at regular intervals. It gathers and delivers tangled and lodged grain easily and in good shape. It cuts easily with a common team, from fifteen to twenty acres per day.

This machine being expressly designed for reaping, is far more simple and efficient than combined machines constructed for both reaping and mowing.

This machine is furnished with two complete knives for reaping, one sickle edge, and one smooth edge, which enables it to cut grain with grassy bottoms without choking.

GREAT FIELD TRIAL AT XENIA, OHIO, 1870.

A very important Field Trial of Reapers and Mowers occurred at Xenia, Ohio, on the 29th and 30th of June, at which the JOHNSTON was awarded the *First Prize—a Grand Gold Medal*. The following is taken from the report of the Committee.

"The JOHNSTON HARVESTER is a new machine here, and it was the first time it had been seen by any of us. As we awarded it the First Gold Medal as the best Reaping Machine, we would as briefly as possible state our reasons for so doing. Manufacturers have long known that it was a desideratum with the farmer to obtain a machine for taking up lodged grain, although it might be laying out from the machine, or in the direction it is moving; hence all the devices for raising or lowering the