

DIRECTIONS
—FOR—
SETTING UP AND OPERATING
—THE—
WHEELER No. 6



COMBINED
REAPER AND MOWER.

MANUFACTURED BY
D. M. OSBORNE & CO.,
AUBURN, N. Y.



WHEELER COMBINED NO. 6, AS A REAPER.

SHIPPING THE No. 6.

In shipping the Wheeler No. 6 from the factory, both as mowers and combined machines, *all the mowing parts will be embraced in three packages, viz:*

First. 1 power, with seat and spring, tilting rod, fold up rod, gag lever 564, tracker and neck-yoke attached.

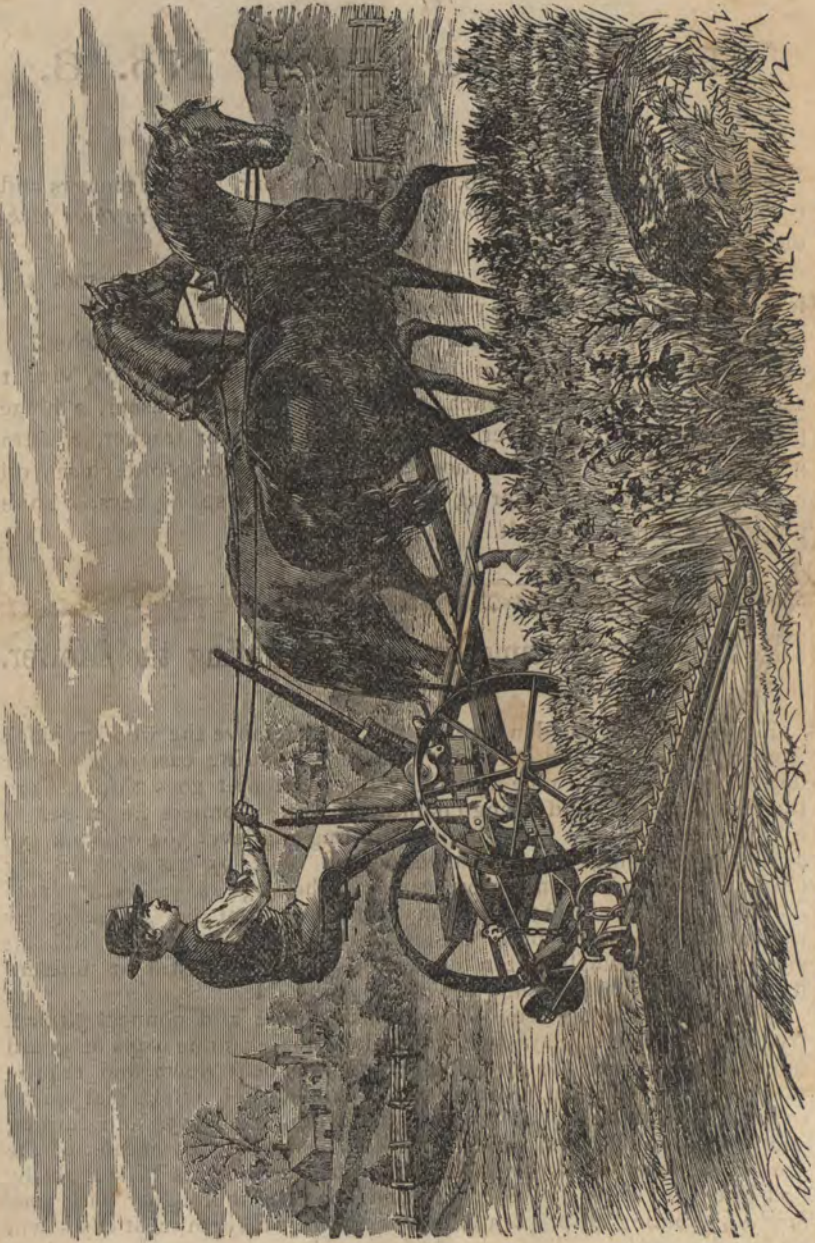
Second. 1 finger-bar, with 2 knife-bars and whiffletrees attached.

Third. 1 pole. All other fixtures will be found in tool box, viz: 1 screw wrench, 1 pitman wrench, 1 bolt for pole with washer, 2 hinge pins for finger-bar, gag lever 564, gag hook, bolt for tracker, 2 extra guards and bolts, 2 extra sections and rivets, punch, cold chisel, oil can, 2 large and 2 small spring keys and hook for spring keys, 2 knife pins, and a whiffletree bolt.

Directions for Setting Up and Operating the Mower.

First attach the wooden lever to 804, then remove the wooden block from the pole seat, and bolt pole in its place, putting cast iron washer on rear bolt, between pole and nut. The front bolt goes through 510 then through pole, and lifting chain hook 815. Connect finger-bar to ears of malleable iron hinge by pins, putting gag lever 564 on back pin against ear of hinge piece, connecting top of it by gag hook to gag crank in 585, and fasten pin by *shortest* of the large spring keys, *spreading key* with cold chisel; in like manner fasten front pin, *spreading key* to prevent its working out. Fasten trackers to outside shoe by bolt and washer. A small button on tracker serves to adjust it at different heights. The skeleton shoe 503 is also adjustable.

Slide knife into finger bar through inside shoe and connect pitman, trying to see that it plays free. If it does not, examine caps of guard fingers, which sometimes in shipment become bent down and require raising, which can best be done with a cold chisel. Bolt seat spring to 540, and seat to top of spring. By turning it on 555, and turning 540 in 594, any desired adjustment can be made. By means of the graduating lever, level the finger-bar, adjust the heights of stubble by bolt in rear of shoes 834, 694, 589 and 603. Oil thoroughly with *good lard oil*, avoiding all preparations of *kerosene*, which in most cases will be found *worthless*. The seat, platform and tool box can be raised up for oiling; and special care should be taken, while the machine is new, in oiling the gearing on the second shaft, the bevel gear on the



WHEELER NO. 6 AT WORK AS A MOWER.

first shaft, and the crank shaft—oil holes for which will be found in them. The shifter handle at the right of box, serves to throw in and out of gear.

In working the machine, *do not drive quite out at the end of the swath*, but, gee square round at the corners, and clean work will be made without backing the team.

When the grass stands up well, or is lodged towards the cutters, keep the fingers slightly elevated. When lodged from the cutters, incline points downward. These changes can be made without stopping the team. Keep the nuts tight, bearings oiled, and cutters sharp, and then good work, with ease to your team, satisfaction to yourself, and a durable machine will be the result. *To fold the machine*, throw the machine out of gear, raise the cutting apparatus and *see that the crank 520 is down*; take hold of the outer end of finger bar and raise it to an upright position, release the graduating lever and let it turn down forward, then fasten by putting one end of fold-up iron in eye of track stick, and its other end in socket 557 on pole. The appearance of the machine as folded and in different working positions will be seen by an examination of the cuts.

If you desire to cut very close in mowing, remove adjustable shoe 694 from inside shoe, and set adjustable shoe 603 at the outer end close up to its shoe.

To Change from a Mower to a Reaper.

Remove the tracker from outside shoe, and 694 and 699 from inside shoe. Remove tilting rod, and turn graduating lever down forward; *don't take it off*. Connect one end of flat strap to lift wheel 689 by pin, and its other end by pin to ear under the pole. Bolt wooden foot board to pole, putting bolts through wrought strap. Fasten foot rail, with treadle attached to foot board, by clamp 595. Loosen nut to 693 and slide it forward to extent of slot, and screw up again snug. Turn seat spring forward, and reverse the seat. Unhook chain from rear of vibrating lever, and in its place use double hook on 598, which is to be hooked on coupling bolt in 585, and its loop end over hook of lever. This is for the lowest cut; for higher stubble, with fold up iron turn 800 and insert one of the keys, 563. Put a stone or block under center of finger bar, so as to raise it a few inches. Attach platform to finger bar, resting point of outer shoe in cavity of 843, and fasten by putting key 563 through shoe and table plate 649, and bolting inner end to heel of inside shoe, using bolt that held 699, and by bolt through table strap at middle of finger bar. Attach platform wheel at proper height. Bolt arm of wrought iron shield to ear on rake stand 590.—Fasten rake stand to inside shoe by eye bolts placed over heads of hinge pins. Hook end of long tilting rod to ear on 689 and fasten the other end by pin to rake track 690. Fasten one end of cord to eye of slide opener 642, and pass cord forward inside of standard to which vibrating lever is attached and fasten end to treadle 576, leaving slack enough for slide to open. Insert rake arms 880, in sockets of 863, and fasten pivot pins by spring key. Pull cord so as to force out slide

In very badly lodged and tangled grain, when the grain collects in bunches on the divider rods, remove them, together with clamp 842.

572 and close opening in track. Turn rakes and see that they revolve over platform freely. If teeth of rakes at outer end are too high or too low, loosen bolts in 831, and adjust the head, screwing up snug, with ratchet washer 837 properly in place on 831, and adjust so as to level teeth, which should touch lightly on platform, after passing over finger bar. If platform at rear corner is too low or high, adjust by putting piece of pasteboard or leather between shoe and platform bar.

Each rake that sweeps platform unlocks dog 828 and opens track. As long as the track is open, roller on 681 passes up and through the opening, leaving the gathered grain on platform. By pressing on treadle long enough to close track, the next rake will sweep it off and open the track for reeling. This process can be repeated at the pleasure of the driver.

If grain is uniform, by putting one of the pins in hole of rake head 863 the grain will be delivered, without attention from the driver, once in about twenty feet; with two pins in, opposite, at half that distance. When in use in this way, to carry the gavels around the corners, remove cord from 642 and attach it under lever 644. The piece 571, on 569, can be set forward or back to give proper delivery of bundle. Fasten dividing rods to point of platform by clamp 842, and bend the short one so that it will serve as a guard to keep teeth of rake out of cutter. Fasten curved rod to under side of wing board by passing through loop in 677, to project back on same curve as platform. Clamp 578 fastens long grain rod to under side of foot board side of pole. This rod is left free at back end, and can be set in any desired position by bending its back end, which should stand from five to ten inches above the second guard finger. Put on the chain by passing one end through chain guide 808 and 809 and around 863, in direction of the platform, and forward over 802, and connect the ends by coupling link.

Use oil or soft grease on chain before working, and occasionally repeat the process when working. Observe the same rules for driving, oiling, etc., as in mowing.

The bearings of 831 in 651 and all the friction rollers of rake, should be kept oiled. In reaping, keep lift lever fastened in middle notch except when you want to pick up lodged spots or short grain, when, by raising it, you both drop the tilt cutters and platform at the same time. When working, four variations in height can be obtained by using the lift lever without stopping the team.

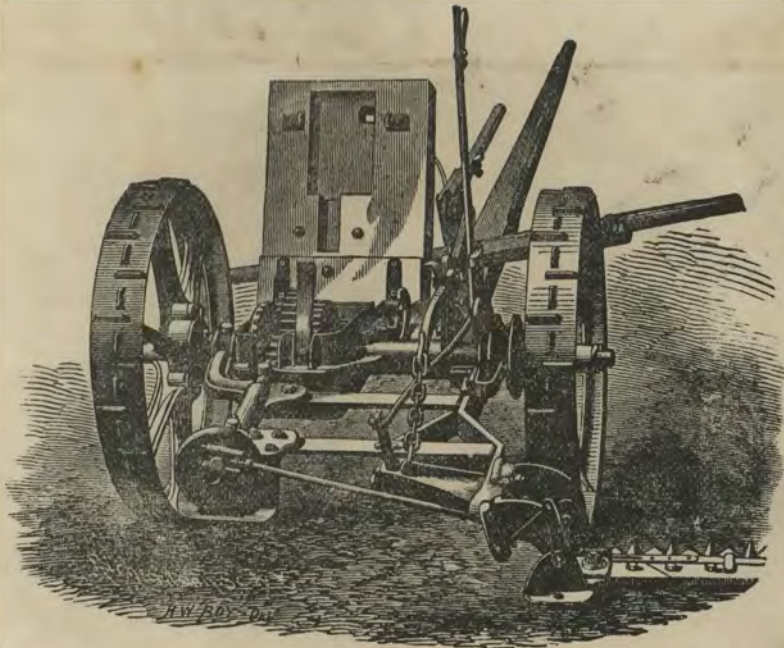
The ledger plates in the fingers are hardened steel, but will in time, from use, become rounded at their corners. Ordinarily from two to five hundred acres of cutting, depending upon the condition of the ground upon which the machine is used, can be done without sharpening. When the corners become worn, remove the plates and grind the edges so as to bring them to a corner, and replace again, then your cutting apparatus, if your cutters are good, is brought again to the working standard of a new machine.

The combined machine will be shipped from the factory in six packages, viz : 1st, one power with seat and spring, tilting rod, fold up rod, gag lever 564, tracker and neck yoke attached ; 2d, one finger bar, with 2 knife bars and whiffletrees attached ; 3d, one pole ; 4th, one platform ; 5th, one rake and stand ; 6th, one box containing all the parts required in reaping. (In the box will be found a small one containing 2 eye

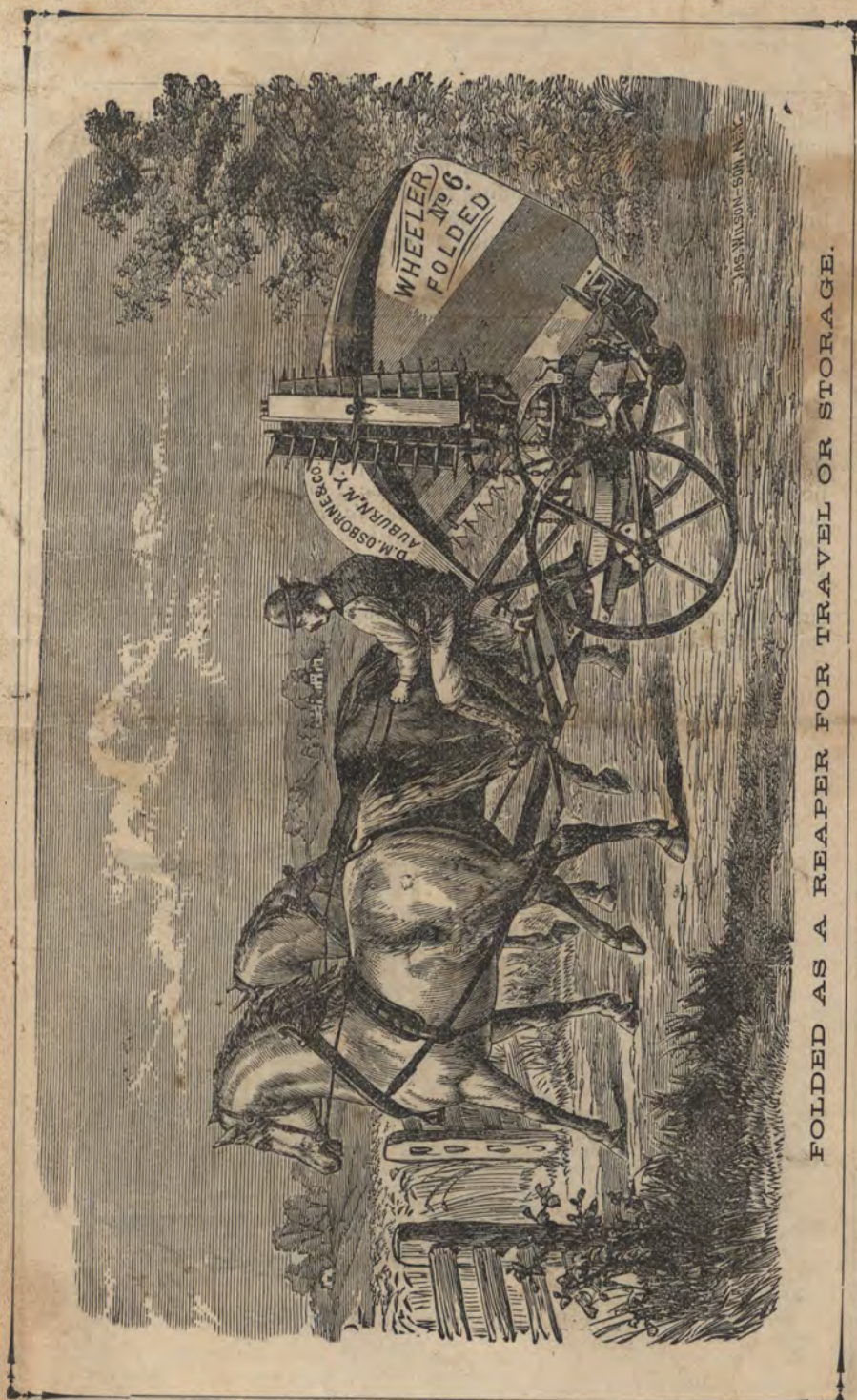
bolts for rake stand 590, 2 washers and bolts to fasten foot board to pole, 1 bolt, 2 locking keys 263 for fastening platform to finger bar and for 801; one 842 and bolts for fastening dividing rods to point of platform, 2 pins for controlling rake, 1 extra coil spring, 2 coupling links for chain, 1 rake wrench, 1 cord, 5 spring keys, 1 double hook, 1 flat strap with hole in each end, 2 pins for same, and one tongue thimble 84 x).

To Fold as a Reaper for Travel or Storage.

First, bring the wooden heads together and fasten with tripping cord, detach chain from driving sheave, and loop it to rake. Loosen eye bolts, and remove the rake entire and place it on crank frame 511, and fasten by iron rod and eye bolts. *If the platform is not at lowest cut, lower inner end to that height so that crank pin is down, and raise the platform to an upright position, and turn it down forward with the point resting in 807.* Fasten end of tilting rod in loop 816 on under side of wing board, the other end of tilting rod to back end of foot rail with spring key.



BOX RAISED, SHOWING GEARING.



JAS. HUNSON - 609, N. Y.

FOLDED AS A REAPER FOR TRAVEL OR STORAGE.