

1884

THE "STANDARD" MOWERS

"STANDARD"
HAY RAKE

AND

SMITH "BIG 7" MOWER

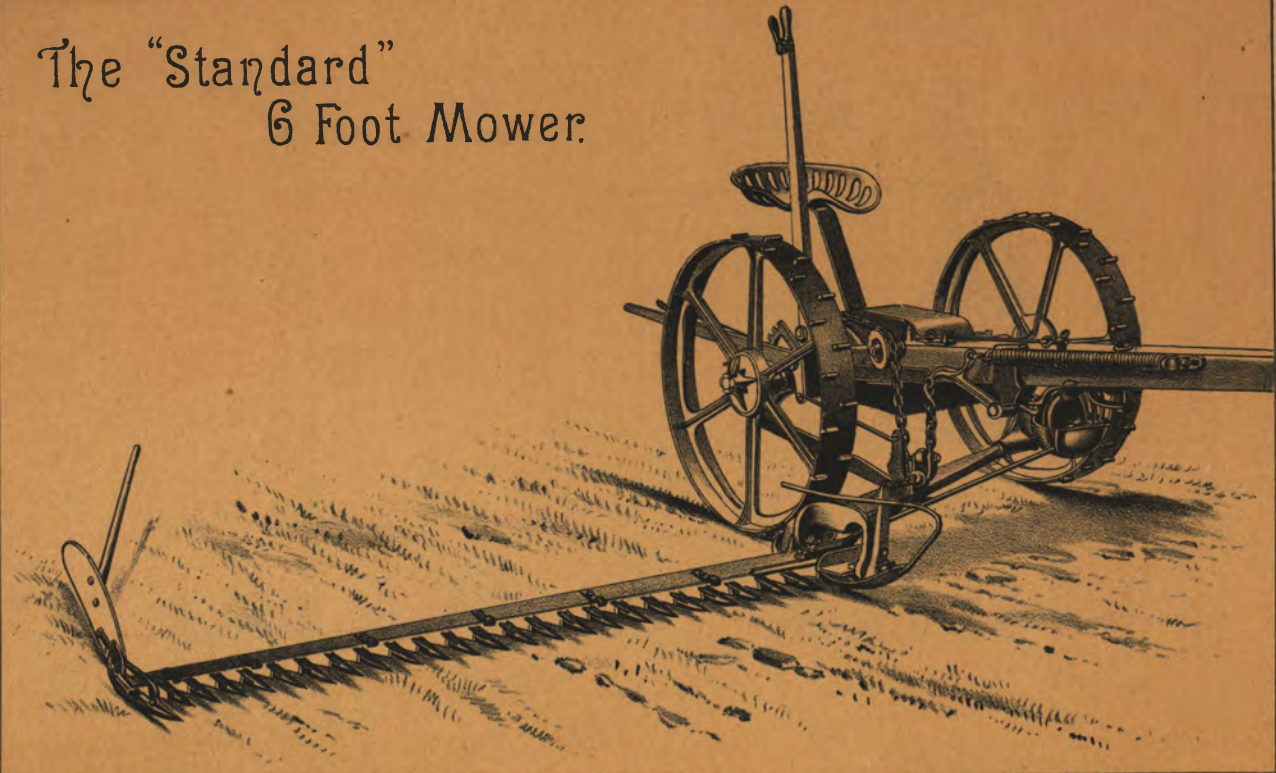
MANUFACTURED
BY

EMERSON, TALCOTT & CO.

ROCKFORD, ILLINOIS.

FOR SALE BY

The "Standard"
6 Foot Mower.



The "Standard" 6-Foot Mower.

FRONT CUT, IRON FRAME, AND ENCLOSED GEARING.

We invite the attention of farmers who have a large amount of grass to cut to this machine. It possesses all the valuable features of our regular "Standard" Mower (a full description of which will be found in this circular), and has other points of superior excellence, not to be found in another machine. Please note the following:

It has no side draft, and draws as easy when at work as an ordinary 4-foot cut machine. With one man and one team, it will do nearly as much work in a day as can be done with two ordinary mowers, which require two men and two teams to operate them.

It will cut more grass in two swaths than the ordinary mower will cut in three, as it passes the margin of the standing grass but twice, instead of three times, and so much less space is lost by crooked driving.

It leaves the cut grass in better shape to cure, as it makes but two partings, to the ordinary machine's three, and consequently the track-clearer does not bunch up the grass as much.

It has more cutting power, because nearly the whole weight of the cutter-bar and the inside and outside shoes is carried on the drive-wheels, thereby increasing the "*Traction*" more than enough to make up for the additional length of the knife.

The cutter-bar is lifted to pass obstructions much easier than in the ordinary mower, by use of the lifting spring and compensating lever, and it is raised with the same ease at all heights from the ground, for with the compensating lever the spring lifts the same number of pounds in one position as in another.

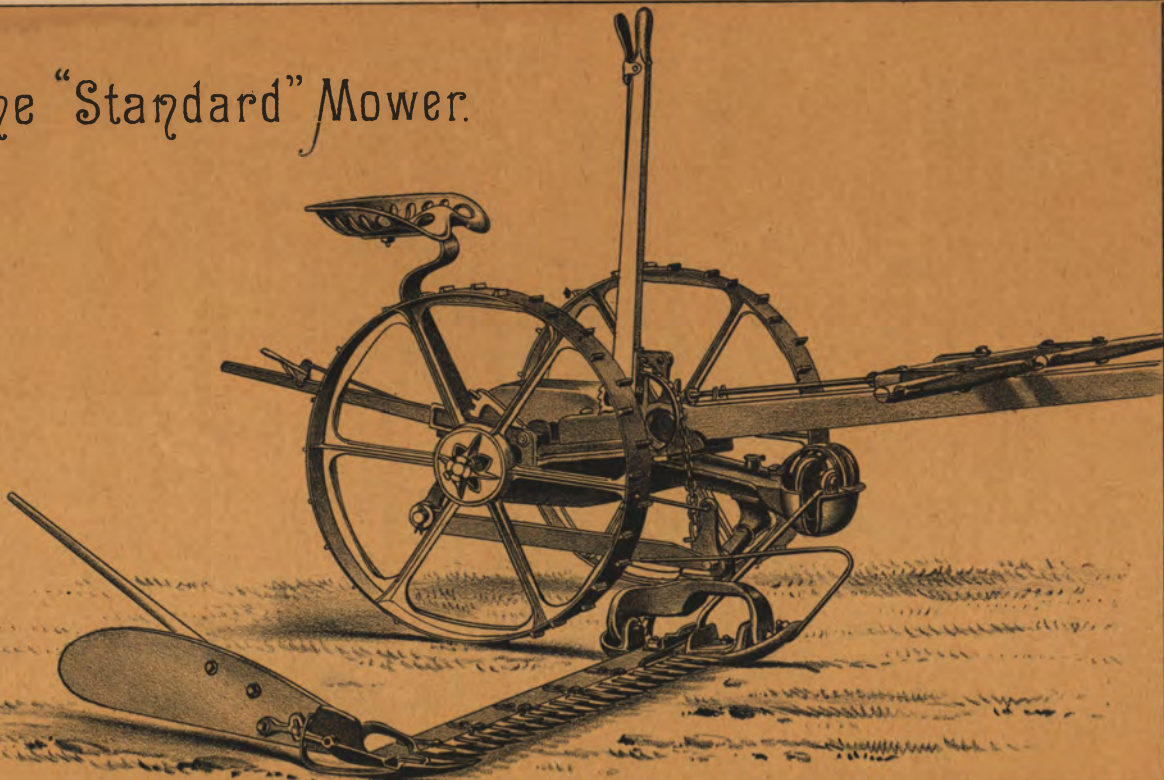
The cutter-bar tilts easier, because the inner and outer shoes do not press so heavily on the ground, and there is so much less friction to overcome.

The cutter-bar floats over rough ground more freely, as there is less dead weight on the ground.

The lifting spring is easily graduated to lift more or less, as circumstances may require.

The machine is so perfectly balanced, that there is no weight on the horses' necks.

The "Standard" Mower.



THE "STANDARD" MOWER.

We briefly call attention to some points of excellence.

Front Cut.—The Finger-Bar is in *front* of the driving-wheel, and the driver's seat is in the rear, giving the driver a full view of the knife and the horses at the same time. Should the driver be thrown from his seat, the danger of falling in front of the knives is entirely avoided.

The Finger-Bar is made of the best cold-rolled iron, and can be folded for traveling without detaching any parts. *It has no nuts or obstructions on the top*, to catch grass or fine stuff. It will lay the grass the smoothest in the swath of any mower in the world.

The Guards are malleable iron, and steel lined. They are bolted to the finger-bar, and can be readily removed by the use of a wrench. They are obliquely recessed under the knife-back, in such a way that no loose material can get hard between them, and cause needless friction.

The Caps or Guides are also *bolted* on, and can be removed, when worn, without the trouble of cutting out rivets, which is a great annoyance in the field. They, too, are obliquely recessed over the sections, so that any loose material, which gets under the points, will work back into these recesses, and be thrown out by the action of the knife.

The Steel Guard Plates can be easily sharpened, or readily removed and replaced when worn out.

The Main Frame is *cast in one piece*, and is very compact and strong, and will not warp or bend and throw the shafts out of line, as is the case when made out of wrought iron. Cast iron is far superior to wrought for this purpose, as the latter naturally lacks the rigidity of the former, which is absolutely necessary to hold the shafting in perfect line.

The Gearing is simple in construction, but powerful and very durable, and is enclosed in a cast iron case, and thoroughly protected from rain, mud or dust. The teeth being cast from *cut gear* patterns, are perfectly uniform in thickness and size. This insures a perfect wear the whole length of each tooth.

The Shipping-Lever, for throwing in and out of gear, is in the centre of the machine, and convenient for the driver to operate, either with his hand or foot.

The Axle Bearings being cast separate from the main frame, are secured to it by bolts. They are lined with composition metal, and can be readily and cheaply renewed or replaced when worn. This relieves the frame proper from any wear or friction whatever. Please compare this feature with the solid boxes made by casting round holes in the main frame, used on many other machines, and which cannot be replaced, except at the expense of a new frame.

The Crank-Shaft Box is what is generally termed a *pipe-box*, and protects the crank-shaft from dust; but, unlike that part of many other mowers, is not a part of the main frame of the machine, but is so attached to it, that the shaft-box can be easily removed when worn out, and replaced by a new one at a trifling expense.

The Pitman is fitted to a ball-shaped crank, and the box is so arranged that any slack can be taken up; thus securing continually free and easy motion. It is made of the very best anti-friction metal; will never heat, if kept properly oiled.

The Drive-Wheels are 30 inches in height, and have a 4-inch face; the extra height making draft lighter, and the broad face giving the wheels more traction than narrow ones, and prevents them from miring easily in soft ground. They are interchangeable, the same wheel fitting either side of the machine. The drive-wheels on other mowers are *right* and *left*-hand wheels, and ours were previous to 1883.

The Drive-Wheel Clutches are on the *outside* of the drive-wheels, and, in case it should be necessary to replace a pawl or pawl-spring, the clutch can be removed without taking off the drive-wheel. Other mowers are constructed with the clutches on the inner side of the drive-wheels, and the wheels must be removed to take off the clutches.

The Track Clearer is adjustable for tall or short grass.

The Tilting Lever enables the driver, without stopping his horses, to throw the points of the guards down to take up lodged grass, or to raise them so as to pass over bogs or stony ground; this being done without changing the position of the bed, or frame of the machine.

With the Lifting Lever, the finger-bar can be quickly and easily raised or lowered; thus, by the aid of the two levers, the cutting apparatus is entirely under the control of the driver, and may be readily changed to suit the necessities of grass or ground, as occasion may demand.

The Push-Bar is connected to the main frame at a point back of, and below, the centre of both the frame and drive-wheels; the point of connection being so low, as to prevent the machine from "buckling," should the cutter-bar come in contact with an obstruction. This is also a valuable feature in heavy cutting, as the tendency is to *pull down* on the main frame and drive-wheels, giving the drive-wheels more traction the time when it is most needed.

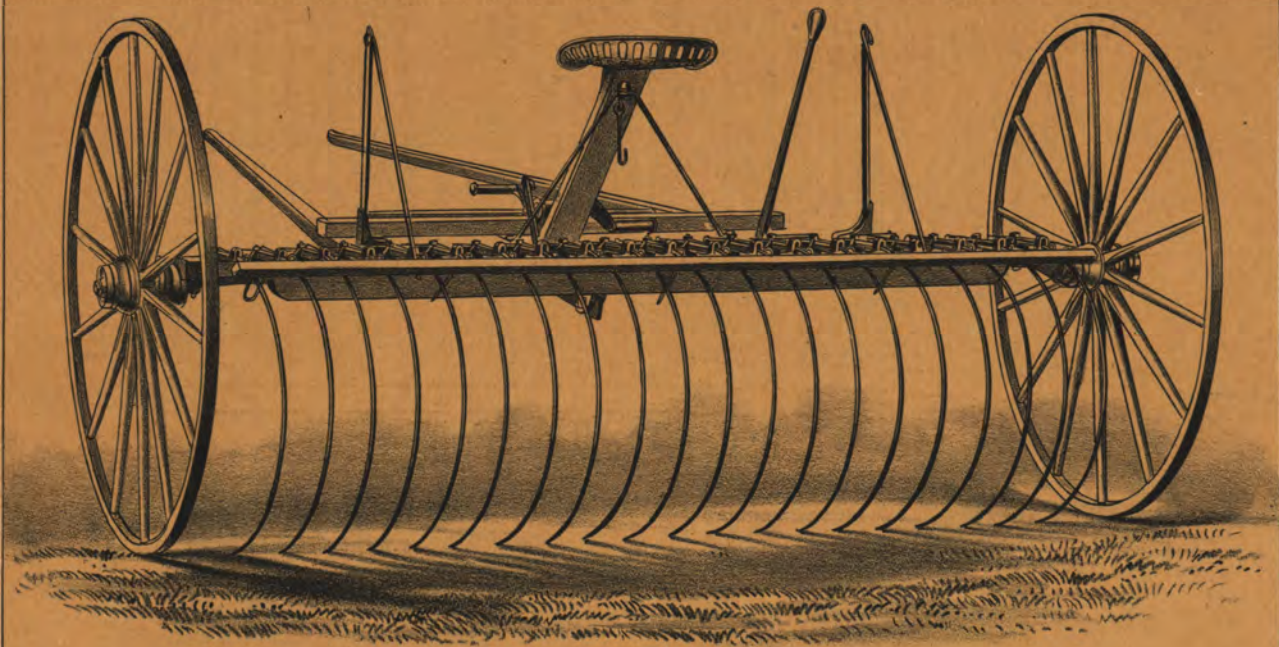
The Track Clearer can be adjusted for tall or short grass.

The Clover Divider, which can be attached to the point of the outer shoe with a set-screw, will *prevent the very worst tangled clover from clogging* on the outer end of the finger-bar, and will leave as clean a margin as if it was cut with a hay-knife.

The Standard has full stroke to the Knife, the sections passing from centre to centre of guards, completely clearing them of all trash, which cannot be done with a short-stroke machine, as the sections pass from edge to edge of the guards only.

Duplicate Parts.—We maintain a perfect system of duplication, and keep constantly on hand, at our works, and with our agents in all parts of the country, a large stock of duplicate parts for all machines ever made by us. Each casting is plainly marked, so that the farmer need not be at a loss to know how to order repairs.

The "Standard" Hay Rake.



THE "STANDARD" HAY RAKE.

This machine has been thoroughly tested, and we guarantee it to be *first-class*, and equal of our other "Standard" machines in every particular. It is made of carefully selected materials, and is the best finished rake in the market. It has a number of valuable features that *are new*, and which cannot be found on any other rake.

Farmers who want the *best rake made*, should examine this machine before purchasing any other.

It is a perfect hand and foot dump, and, except in *heavy bunching*, the work of dumping the load can be done with the feet alone, the machine being dumped largely by the weight of the driver.

The Overhanging Stripper leaves capacity for a larger load than any rake using cleaner sticks, and thoroughly cleans all hay from the teeth.

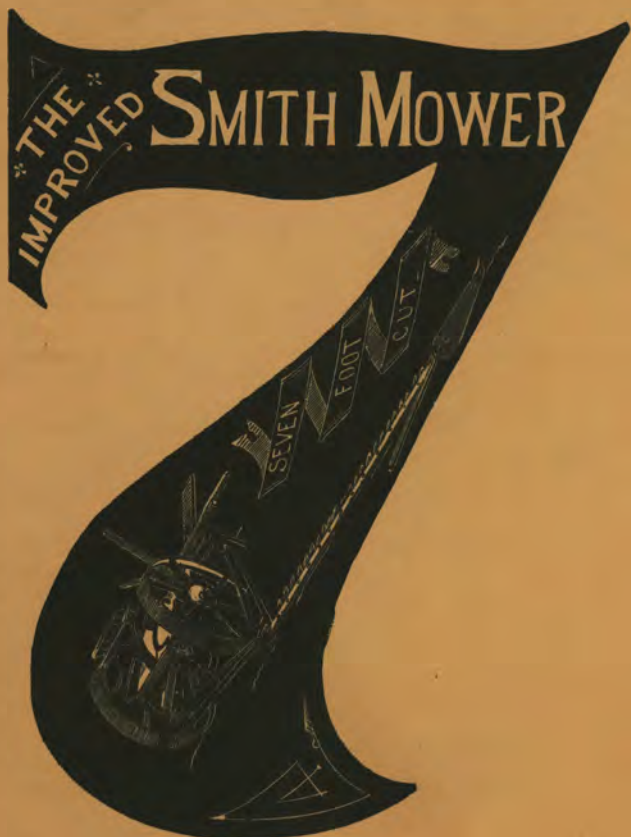
The Seat is adjustable to suit light or heavy, or tall or short operators. The machine can be readily changed to either a one or two-horse rake. It is well balanced, with no weight on the horses' necks.

The Frame is composed of few parts, which are strong and durable.

The Teeth are made of the best quality of steel, and finely tempered in oil, and each tooth is tested at the shop. They can be held up, while turning at the end, by use of the foot-lever, leaving the hands free for handling the reins.

By a new device for attaching the teeth to the rake-head, we dispense with the spiral springs which are used on many machines, but retain all the elasticity and freedom to conform to uneven places in the ground of a tooth having a spiral spring in connection with it, and, at the same time, avoid the use of many extra parts made necessary by the use of the springs, thus saving the farmer much annoyance and expense, by greatly reducing the number of parts which are liable to wear. The points of the teeth raise very high when discharging a load, which makes it a most excellent machine for heavy work, and they can be *locked down* or left free, at the will of the operator, by simply changing the position of the lock button, which can be done in a moment's time.

THE ONLY MOWING MACHINE
EVER MADE TO SUCCESSFULLY CUT A
SEVEN-FOOT SWATH.



With Two Horses and One Man this machine will cut from 15 to 20 acres per day.

The entire weight of the cutter-bar is suspended on a **Spring Sheave**, which prevents the bar from dragging on the ground, thus doing away with all side draft.

The **Spring Sheave** in connection with the **Compound Lever**, enables us to use a 7-foot bar with more ease than the ordinary 4-foot bar can be handled on any other machine.

We have not the space here to enter into a full description of this machine, but will take pleasure in sending one of our special "Big 7" catalogues to any one wishing to know more about the machine, who will send us their address.

ESTABLISHED 1852.
INCORPORATED 1876.

Emerson, Talcott & Co.

HOME OFFICE & FACTORY

ROCKFORD, ILLINOIS.

BRANCH HOUSES

EMERSON, TALCOTT & CO. DALLAS TEXAS.
STANDARD IMPLEMENT CO. KANSAS CITY, MO.

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