

NEW MODEL

Buckeye, THE Standard Mower

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of
AMERICA.

MANUFACTURED BY

THE
RICHARDSON MANUFACTURING
COMPANY.

WORCESTER, MASS.

S. B. Cook Agent
Petersham, Mass.

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OFFICE OF
THE RICHARDSON MANUFACTURING CO.

WORCESTER, MASS., February 1, 1888.

IN presenting the BUCKEYE MOWING MACHINE in its Model for 1888, we are proud to say it has made greater advance than during any other single year of its history. Its success has been largely due to its SIMPLICITY of construction, and the value and importance of simplicity in all mechanism has never been more strikingly demonstrated than in the success of THE BUCKEYE over the more complicated devices of its competitors.

IN EFFICIENCY it has no equal. Its fewer single parts and its less complicated combinations make it easy to be understood and handled, and adapt it to the widest variety of field work. Wherever any other machine can work, THE BUCKEYE can work, and work well, and in many of the rough fields of New England, THE BUCKEYE is the only machine that can work at all.

THE BUCKEYE has always been popular for its DURABILITY. The mechanical principles on which its general design rest, were proved correct and desirable many years ago, and these are unchanged. But there has been constant improvement in the machine, not as make-shifts to cover frequently discovered defects but in the direction of SIMPLICITY and DURABILITY.

Its general adoption in New England and its steady and increased growth of sales in face of the sharpest competition, is sufficient demonstration of its superior merit.

We have never sacrificed QUALITY to cheapness in building THE BUCKEYE, but while its cost has always been kept at a moderate point, its quality has not deteriorated. Every change has been AN IMPROVEMENT, either in SIMPLICITY, EFFICIENCY or DURABILITY, and our patrons may be sure of THE BUCKEYE as well made, and of honest stock at every point.

THE RICHARDSON MANUFACTURING CO.

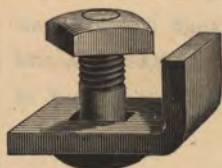
RECENT IMPROVEMENTS.

Among our recent improvements we consider as among the most important

THE CHAFE PLATES.

The fact needs to be often stated and always remembered, that a mowing machine is simply a series of shears or scissors operated by machinery. The whole aim of the apparatus is to get a perfect clipping action, like that in a pair of scissors, between every section of the scythe and its corresponding finger. When this is accomplished with the SMOOTHEST RESULT, the LEAST EXPENDITURE OF POWER, and the GREATEST RAPIDITY, the ideal mowing machine is before us.

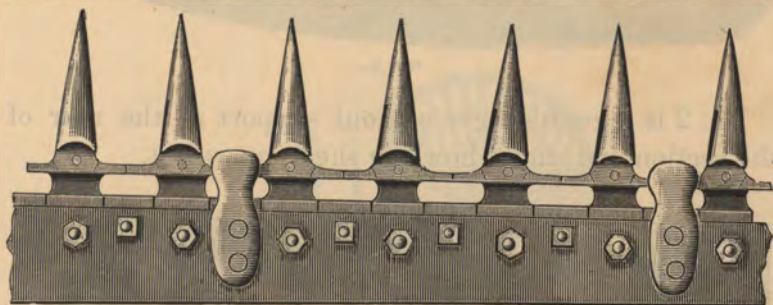
A recent improvement in THE BUCKEYE in this direction, small in itself, adds greatly to its EASE and CERTAINTY OF OPERATION, and to its DURABILITY. This is the new, patented CHAFE PLATE attached to the cutter-bar between the guard-fingers. Before this improvement THE BUCKEYE was superior to all other machines in its method of securing a permanently close cutting motion between the knife section and the finger, but this adds much to the value of the machine.



The NEW CHAFE PLATE, shown in the margin, is made of the hardest steel, and bolted between the guard-fingers by square nuts, as shown in the cut on opposite page.

In use, the rapid motion of the scythe wears away the support supplied at its back by the elevation of that portion of the guard-finger. This rear support is essential

to the perfect working of the cutting apparatus, as its office is to elevate the rear of the scythe and throw its points downward into close contact with the steel



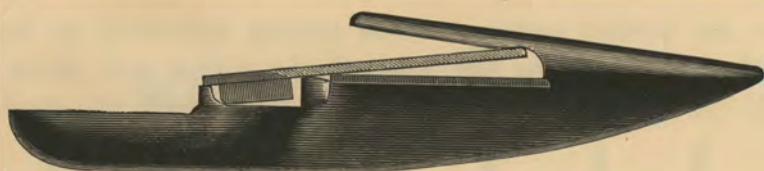
SECTION OF FINGER BAR SHOWING CHAFE PLATES BETWEEN FINGERS.

plates in the guard-fingers, which is the other blade of the scissors, thus securing the necessary shear-cut. All machines work well at this point when new, but fail more or less with use. THE BUCKEYE has always been especially guarded here, but its new CHAFE PLATE perfects the machine at a vital point. The CHAFE PLATE being made a trifle fuller than the elevation of the guard-finger receives the friction of the scythe and holds it in position to maintain the perfect shear-cut. It also serves to hold the scythe in proper position laterally. The CHAFE PLATE being of harder metal than the guard-finger, wears much longer, and when it is worn out it can be replaced at trifling cost.



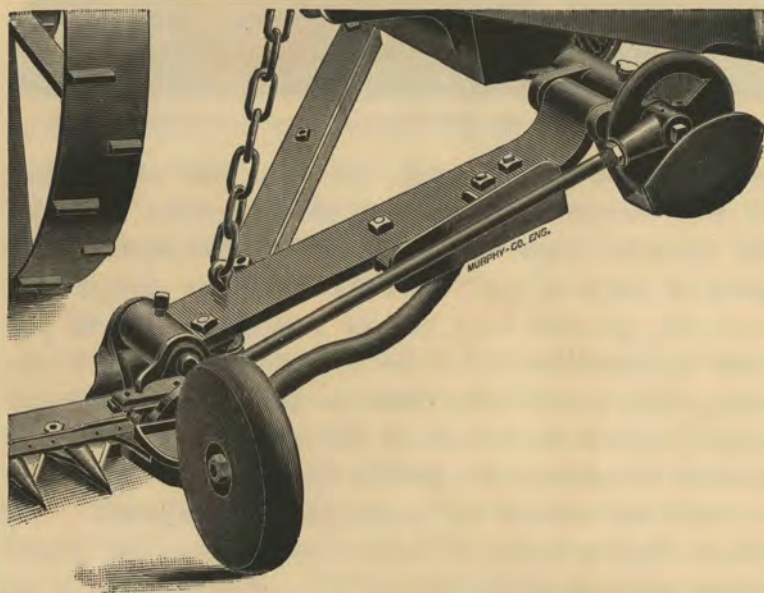
NO. 1.

No. 1 is a guard-finger with support at rear of section, showing how the section is held in place and the shear-cut maintained.



NO. 2.

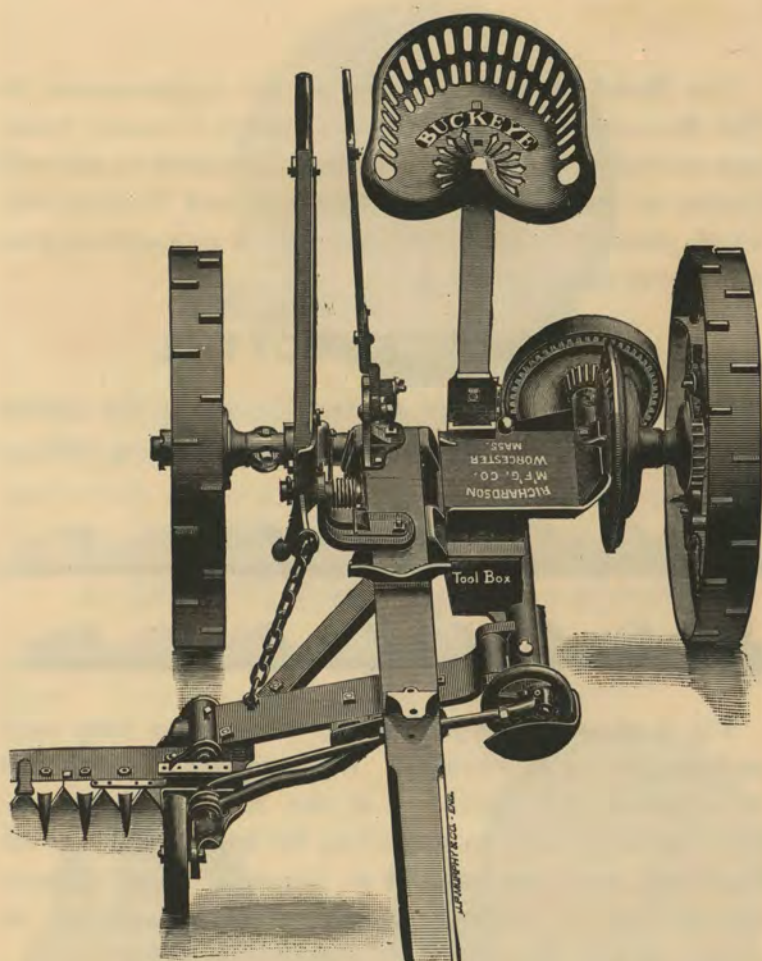
No. 2 is a guard-finger without support at the rear of the section and shows how the shear-cut is lost.



PITMAN ROD FENDER.

Another recent improvement is the protection of the Pitman Rod, secured by a guard, solidly bolted behind it. Its result is to prevent any bending of the rod by the shock of contact with any possible obstruction. No other machine has this rod so thoroughly protected. The location of the guard is seen in the cut.

The Pitman Rod and Box have also been materially strengthened and improved.



IMPROVEMENTS OF 1888.

Our Model of 1888 includes all the improvements to THE BUCKEYE that have proved of utility in recent years, and several entirely novel features, calculated to add still further to its SIMPLICITY, EFFICIENCY and DURABILITY, which places it further in advance of its competitors than it has ever stood before.

A STRONGER SCYTHER.

Prominent among these are two changes in the cutting apparatus, which are illustrated in the following cuts:—

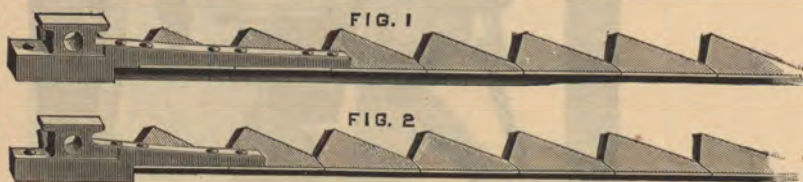
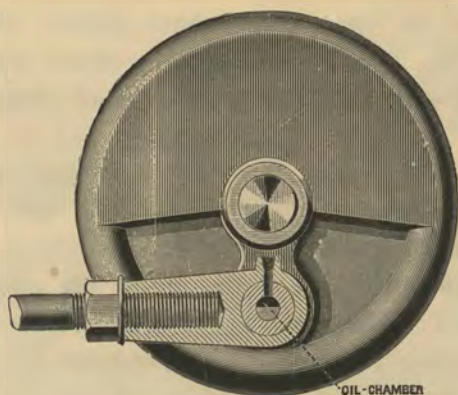


Fig. 2, shows the scythe which we have so long used with so general satisfaction. We have now strengthened it by increasing its thickness at the heel for about one-third its length, and by extending the head itself to cover three instead of two sections as formerly. The changes add strength and stiffness where most needed and may be clearly seen in Fig. 1. Their utility is apparent.

SELF-OILING PITMAN BOX.

Our new Self-Oiling Pitman Box is a simple but important improvement. The action of the Pitman Rod in

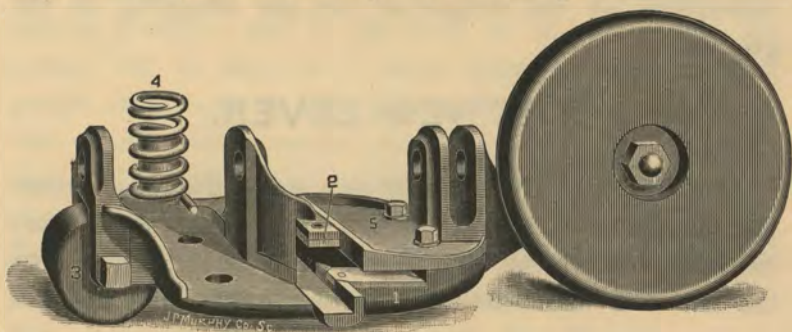
this box is like the action of the heart in the human body, —everything else depends on it. Its motion is most rapid, and here is the greatest danger from dryness and friction.



The cut is a cross-section showing the end of the Pitman Rod screwed into the box, and the perforated crank-stud which makes a chamber containing sufficient oil to lubricate the shaft for a considerable period.

A GREATLY IMPROVED SHOE.

Very important changes will be found in the INSIDE SHOE. They are shown by the following cut:—



We have reduced its weight, but increased its strength, by making it entirely of malleable iron. Besides this

there are here three essential improvements. At "1" will be seen a new steel plate at an important wearing point. It is identical in character with the steel plates in the guard-fingers upon which the cutting sections operate, and its use secures more perfect action to the whole scythe, and consequently a more perfect result, and besides prevents any possibility of clogging at this point.

At "2" is a similar new plate, designed to hold the scythe-head down to its work. Nos. 1 and 2, operating together grasp the whole scythe, holding it closely and firmly to its work, and maintaining the essential shear-cut, without excessive wear. Both these new plates are detachable, and being the principal wearing part at this point their adoption adds much to the life of the machine.

No. "3" appears as a new and extra bearing wheel, which greatly assists in supporting the rear end of the cutter-bar. Its use and value can be seen at once.

At "4" is seen a strong spiral spring, a new device which ingeniously and perfectly assists in carrying the extreme outer end of the cutter-bar, lightening the draft of the machine, and obviating any possible side-draft occasioned by the weight of the bar dragging on the ground.

THE NEW LEVER.

Although THE BUCKEYE lever always lifted the cutter-bar easier than the lever on any other machine, another improvement will be seen in our New Lever, which lifts the bar with about half the former effort, and holds it at any desired elevation with absolute certainty and safety.



NEW MODEL BUCKEYE ON THE ROAD.

THE FOLDING BAR.

The most careless observer will not fail to note the advantage of the folding bar, which is a distinctive feature of the Buckeye machine, no other mower possessing this device. On the road the Buckeye is as safe and easy as a wagon, and in the field or in the street the cutter bar is safe, as it never endangers the safety of people or animals by falling upon them. The tilted position of other machines is a constant menace, and the wise man in selecting his surroundings will, when he has a choice, look out for the safety of himself and others. Too many men fail to see such advantages until some sad accident impresses it upon their minds.



NEW MODEL ONE HORSE BUCKEYE. WEIGHT 450 POUNDS.

OUR ONE-HORSE BUCKEYE.

It is a striking testimony to the simplicity and ease of operation of the Buckeye that, while other machines hardly attempt to work without a double team, our one-horse machine is practical, and in general use all over New England. Our sales of one-horse machines have increased every year, and their popularity has never been so popular as at present. No other one-horse machine can contest with the Buckeye in any feature essential to satisfactory use.

The machine weighs only 450 pounds, cuts a $3\frac{1}{2}$ foot swath, and is easily handled by a horse of average size and strength. It is a perfect blessing to the hundreds of small farmers who keep but one horse. It is as staunch and strong for its work, and is as fully warranted, as are the heavier machines, and it can be used on the heaviest and roughest work with safety.

Some of our patrons claim that with a one-horse Buckeye they can do as much work as their neighbors can do with two-horse machines of other makers.

A FEW REASONS

Why the New Model Buckeye is the Best.

It is the MOST SIMPLE, and contains fewer parts.

It has less gearing.

It can be understood and kept in order by the common farm-hand.

All its parts are under the eye of the operator, and so simple that should anything go wrong he will know just what to do.

Its parts essential can be set up and tightened as wear occurs, and renewed at trifling cost.

It is built on sound mechanical principles; straight gearing used for quickest speed.

It is positively the LIGHTEST DRAFT.

It is the strongest and most durable.

It is the best for rough, uneven ground, consequently the best for smooth mowing.

It is the easiest to ride upon.

It is the easiest to handle both for team and driver.

It will last longer.

It will do more work and better work.

It raises the bar easier and lifts higher to pass obstructions.

It is more in use than any other kind, showing its appreciation by the farmer.

It requires fewer repairs.

Duplicate parts can be quickly and surely procured at convenient points. No loss of time in the hay-field for repairs.

The only machine with the Double Hinge Floating Finger Bar, which gives a flexibility like that of the combination of shoulder and elbow joint.

The only machine in which the Bar folds flat across the frame, making it as portable as a wagon.

The only machine that has the hardened steel Chafe Plates.

It has fewer oil-holes and bearings than any other machine.

It is the only machine that can be worked with one horse with ease.

Its average life is double that of others.

It is the only machine that can present all the above claims as genuine.

The New Model Buckeye is Made in Three Sizes.

No. 1 Cuts a Swath	4 feet 9 inches.
No. 2 Cuts a Swath	4 feet 3 inches.
No. 3 Cuts a Swath (for one horse)	3 feet 6 inches.

Each machine is furnished with two Complete Scythes, two extra Knife Sections, two extra Guard Fingers, Screw Wrench, Punch, Cold Chisel, Oil Can, Rivets, Bolts, and Whiffletrees, Evener and Neck-Yoke.

WARRANTY.

All our Machines are warranted to be well built, of good material, and capable of doing good work in ordinary grass at the rate of one acre per hour, or ten to fifteen acres per day with a pair of horses.

In case anything proves defective when the machine is started, due notice must be given to us or our agents, and time allowed to send a person to put it in order. If it does not work after this, and the fault is in the machine, it will be taken back and the money refunded, or a perfect machine will be given in its place, at the option of the purchaser. Continued possession of the machine will be evidence of satisfaction.

THE ADRIANCE REAPER.

To meet a growing demand in this section for a single reaping machine for cutting grain, we have selected and shall keep on sale with our agents the ADRIANCE REAPER, as the best adapted to the grain crops of New England.

It is illustrated on the opposite page, showing its essential features of handling both in the field and on the road. It will do good work in all fields of grain, in any condition, whether standing or tangled, and carries a special device for picking up lodged grain. It works equally well on smooth ground or rough. The rakes can be set to work automatically, and the grain delivered in gavels at any desired distance, or in swath, while the driver controls and varies the operation of any arm at pleasure. By a slight movement of the driver's foot any arm which is acting as a rake can be instantly converted into a gatherer, or any arm which is acting as a gatherer can be instantly made to operate as a rake.

It is as portable as a wagon. One person in a few minutes can fold the machine as shown in the cut, when it can be driven through the narrowest bars or lanes, or on the road with perfect safety to the team and driver; neither the knife or connecting rod has to be disturbed. It is light, strong, simple, easily understood and operated, completely under the control of the driver, no weight on the horse's neck, has a cased gearing, is perfectly balanced, and has no side draft.

The ADRIANCE REAPER will perform every practical demand in grain cutting at a great economy of time and labor, and prove itself in the grain harvest what the BUCKEYE has become in the hay field. Send to us or our agents for Descriptive Circular setting forth more fully its special merits.



ADRIANCE REAPER ON THE ROAD.



ADRIANCE REAPER AT WORK.

THE KEMP MANURE SPREADER.



MANUFACTURED BY

The Richardson Manufacturing Company, Worcester, Mass.

Send for Descriptive Circular.

THE BULLARD HAY TEDDER.



The only Tedder with Forks outside the Wheels, consequently the only Tedder that in passing back and forth the wheels do not pass over the teded hay. More in use than of all other kinds together, and the only Tedder that has stood the test of time.

MANUFACTURED BY

THE RICHARDSON MANUFACTURING COMPANY, Worcester, Mass.

