



MORNING.



EVENING



THE BUCKEYE,

THE FRIEND OF MAN AND BEAST.



MORNING, NOON AND EVENING.

OUTLINE MAP OF CHICAGO,

SHOWING RAIL ROAD
ELEVATED R.R., CABLE AND
ELECTRIC STREET CAR
SYSTEM FOR CONVEYING
VISITORS TO AND FROM THE
WORLD'S COLUMBIAN EXPOSITION 1893.

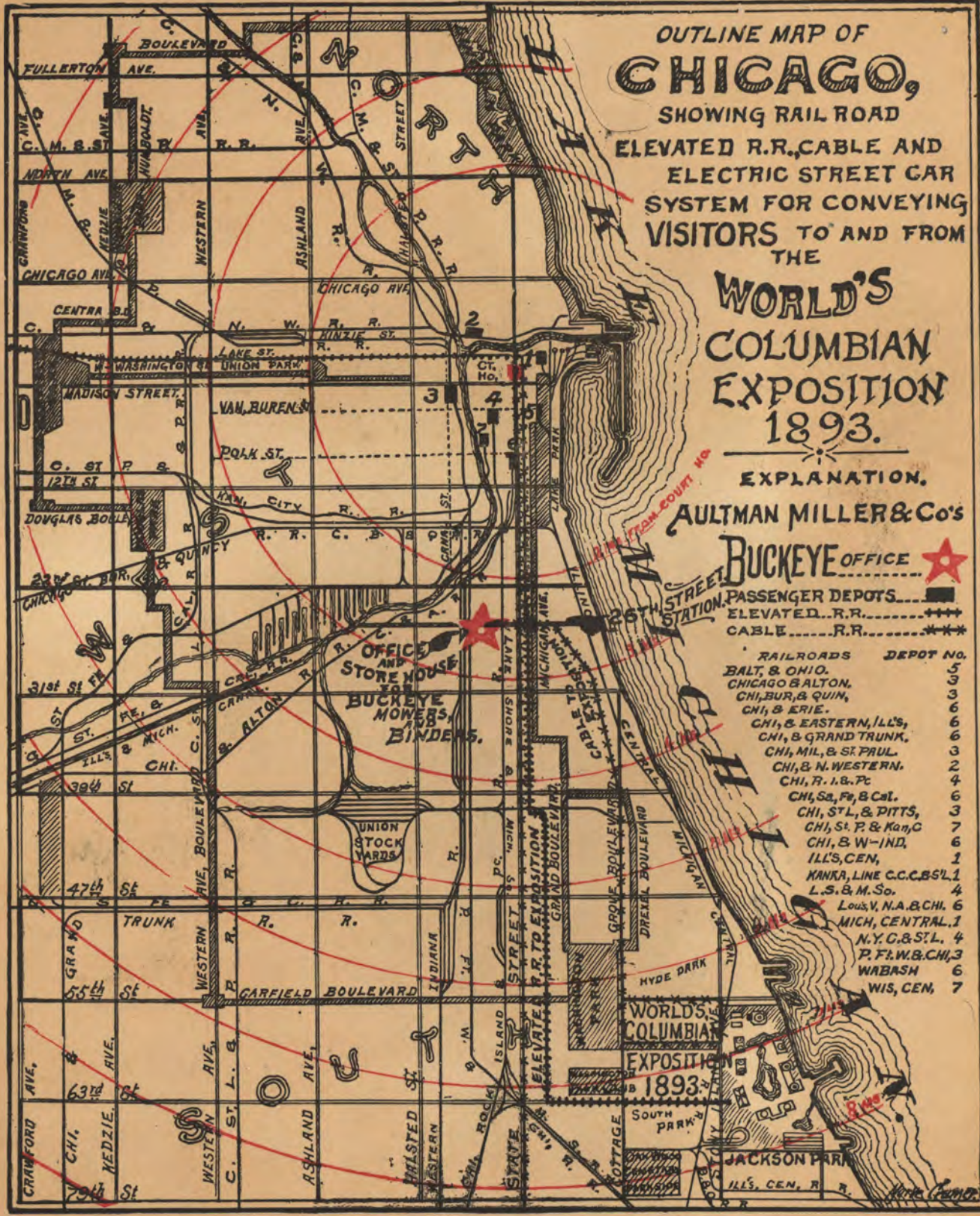
EXPLANATION.

AULTMAN MILLER & Co's

BUCKEYE OFFICE ★

PASSENGER DEPOTS...
ELEVATED R.R.
CABLE R.R.

RAILROADS	DEPOT No.
BALT. & OHIO.	5
CHICAGO BALTON.	3
CHI, BUR. & QUIN.	3
CHI. & ERIE.	6
CHI. & EASTERN, ILL'S.	6
CHI. & GRAND TRUNK.	6
CHI. MIL. & ST. PAUL.	3
CHI. & N. WESTERN.	2
CHI. R. I. & P.	4
CHI. Sa. Fe. & Cal.	6
CHI. ST. L. & PITTS.	3
CHI. ST. P. & Kan. C.	7
CHI. & W-IND.	6
ILL'S, CEN.	1
KANKA, LINE C.C. & S. L.	1
L.S. & M. So.	4
Louis V. N.A. & CHI.	6
MICH. CENTRAL.	1
N.Y. C. & ST. L.	4
P.F. & W.B. CHI.	3
WABASH	6
WIS. CEN.	7





THE BUCKEYE

Annual Descriptive Catalogue

OF

AULTMAN, MILLER & Co.

MANUFACTURERS OF

Buckeye Harvesting Machines

AND BINDER TWINE

AKRON, OHIO.

GEO. W. CROUSE, President.

IRA M. MILLER, Secretary.

R. H. WRIGHT, Treasurer.

LEWIS MILLER, General Manager.

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SEVERAL YEARS AGO a harvester concern, wishing to make a stunning exhibit in print, got up a pyramid of figures purporting to show the prodigious increase of its annual sales. Naturally, the bottom figure reached clear across the page.

The following year a rival distender fobbed the pyramid idea, but feeling that figures were too weak a device, he made his pyramid of blocks of colors, which bulged out enormously toward the bottom, the lower one, representing his last annual sales, being all the page would hold.

Feeling that the pyramid idea had been "worked" for about all there was in it, the next boomer scheme takes shape in a row of monuments, which, starting with a common grave-stone, shoot up successively until the top of the page is reached by the last one.

As the Buckeye has not yet reached that state of health which is suggestive of pyramids, monuments, or other mortuary emblems, we have chosen to represent its present condition by

OUR GRAND BUCKEYE TREE.

its branching top overshadows the whole earth. It is full of glorious promise for the future. It is in the very prime of flourishing growth. See its robust, stalwart trunk! See its powerfully-rooted grasp upon the earth! We turn our backs upon the builders of the paper toy pyramids and monuments, and uncover our heads before the Maker of our stately emblem of living beauty and power.

THE SIMPLEST MACHINE AND THE MOST PERFECT SELF-BINDER ALL IN ONE.



THE BUCKEYE FRAMELESS BINDER,

Without Frame and Sectors, and Divested of Gear and Other Complications. Uses No More Cog Wheels Than Are Required to Make the Ordinary Mower. For Simplicity, Durability, Ease of Management and Lightness of Draft It Has No Equal.



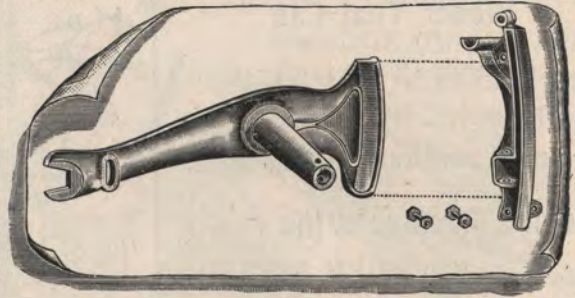
THE attention of grain growers in America and elsewhere is invited to a Self-Binder which differs radically from that chronic and heavy type which has been in vogue during the past ten years. This most recent and most important improvement on binders presents a system which at once dispenses with that complicated framework of flat or angle bars, or round or square tubes bolted together at the corners, still seen on all binders except the Buckeye. On this machine, which is known by the suggestive name of the **Buckeye Frameless Binder**, the outer end of the platform is carried by the switch-wheel, while the elevator and binding mechanism rest upon the drive wheel, which goes upon the other end of the platform. THE BINDER, THEREFORE, IS BORNE ON ITS TWO WHEELS IN THE SAME MANNER AS ON TWO WAGON WHEELS, THE RIGID PLATFORM TAKING THE PLACE OF THE WAGON AXLE. The nature of our improved system is immediately obvious. It is a great simplification and has been grandly successful. We devote several pages to the illustration of this feature, partly because of its novelty, also because the economical transmission of power is a factor of the first importance, and also because the light appearance of the machine, as compared with other binders, might suggest a doubt as to its ability to stand up to the work. Five seasons of severest testing, during which the Buckeye has not failed to fill many thousands of its purchasers with delight, show this doubt to be entirely baseless. In the big harvests of 1891 and 1892 THE FRAMELESS EVERYWHERE MADE ITS WAY TO THE FRONT, inducing a demand which overwhelmed our works with orders that could not be filled.

Desiring to be in a position to more fully honor the orders of their patrons, Aultman, Miller & Co. have, during the past year, added to their already immense factory plant a stone and brick building, 100 x 400 feet in size, with a corresponding equipment of first-class machinery.

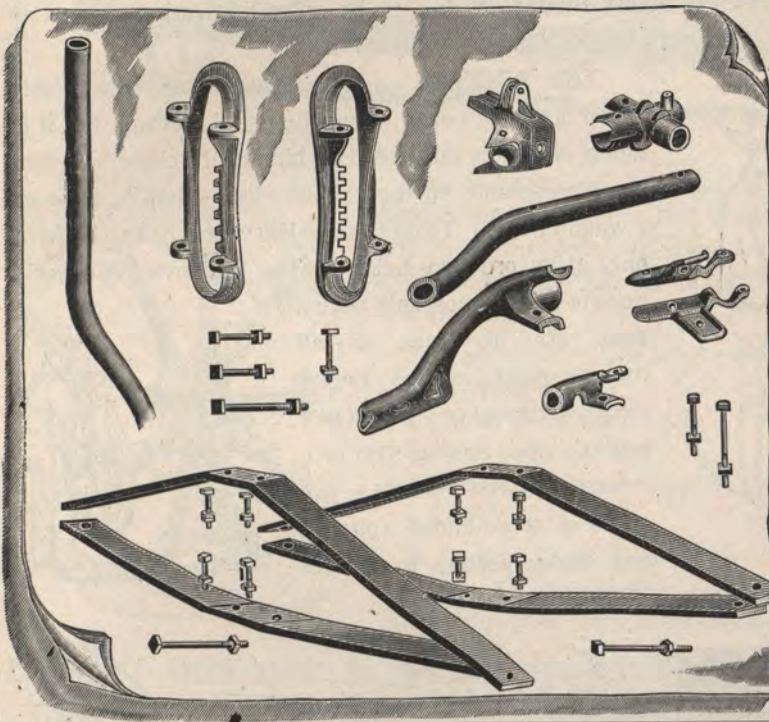
FRAMELESS.



WE HAVE called our new Binder the **Buckeye Frameless**, because it dispenses with that net-work of RODS, BARS, TUBES, BRACES AND SECTORS which go to make up an old-style binder frame. Let us explain:



AT THE RIGHT are shown the Buckeye machine-supporting parts, TWO PIECES and two bolts. BELOW are shown the parts required to make up the wheel frame of an old style binder—fourteen pieces and sixteen bolts. The four Buckeye pieces fulfill every purpose that is accomplished by the thirty pieces on the truss-bridge pattern, and do the work a great deal better and easier, and the device never twists, racks, or gets out of order,



BECAUSE IT CAN'T!

IN SHORT,

The **BUCKEYE PRINCIPLE**

FURNISHES THE

GREATEST STRENGTH

WITH THE

LEAST WEIGHT,

THE

FEWEST PARTS,

AND THE

SIMPLEST

CONSTRUCTION.



ARRIVAL OF THE ADVANCE GUARD.

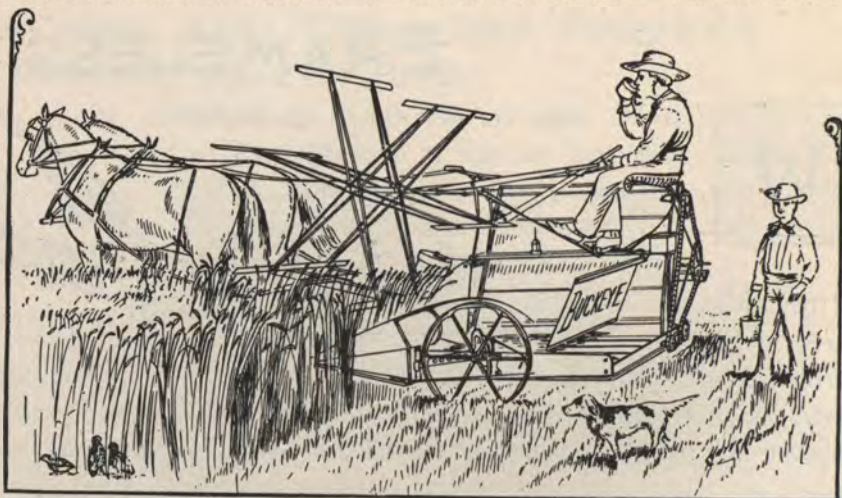
On the wheat frontier the **Buckeye** was preceded only by the sod house and plow.

**What Every Prudent Farmer
Wants Is a
Binder That Can**

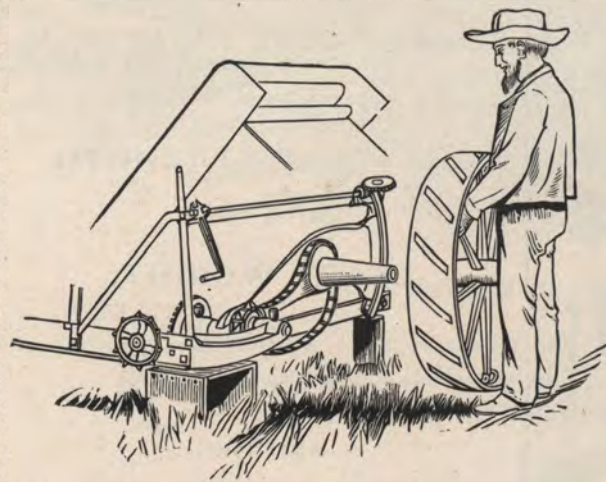
Vanquish all the Difficulties
Presented by Time, Crop,
and Condition of Ground.

**Such a Machine is the
BUCKEYE BINDER.**

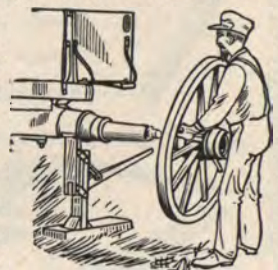
**Everybody Likes the
FRAMELESS.**



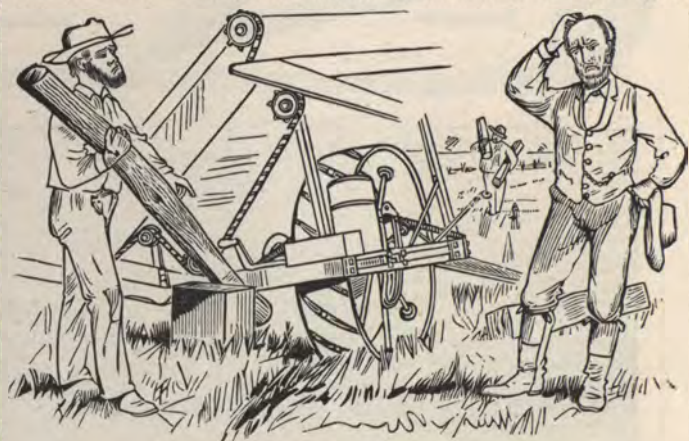
The enormous demand for the **Buckeye Frameless Binder** is due to its splendid work, which has vindicated its superiority **In Every Contest! In Every Crop!! In Every State!!!**



THE BUCKEYE can be elevated and the wheel taken out from below, after the usual method, but it is much easier to take off the binder attachment, when the wheel comes off the axle like this—that is, same as a wagon wheel. To do this the Harvester has to be kept only at its ordinary height. The Buckeye Wheel will need to be taken off **only once a year**, viz: to clean off all the bearings at the beginning of harvest. **IT WON'T BREAK**, and has a **STRONG, COMMON-SENSE SPINDLE**, instead of loose-ended spindles and shaky sectors to run in.



"HE DON'T BELONG TO OUR SET."

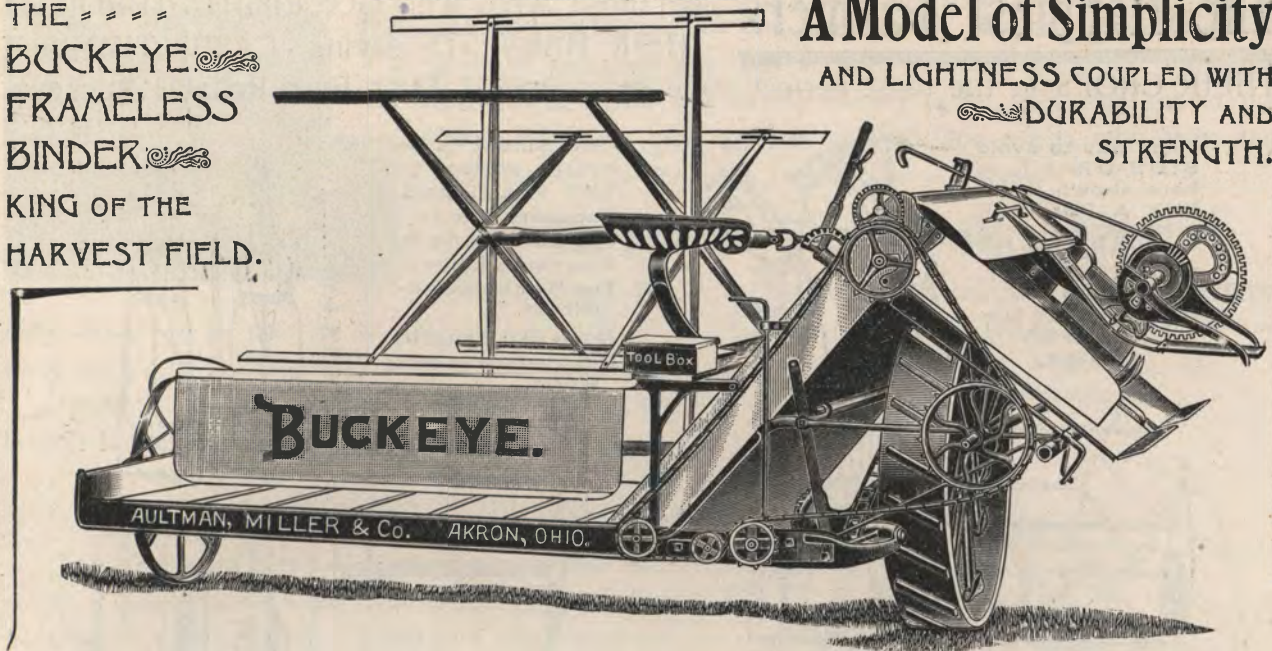


Removing binding attachment on the old frames leaves wheel imprisoned in frame and sectors same as before. Blocking for a high lift isn't handy to carry along, but fence rails will do at a pinch. If you haven't got rail fences, get the Buckeye.

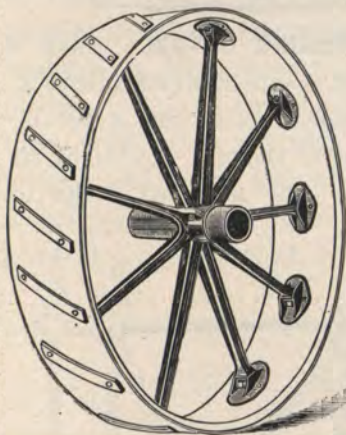
THE
 BUCKEYE
 FRAMELESS
 BINDER
 KING OF THE
 HARVEST FIELD.

A Model of Simplicity

AND LIGHTNESS COUPLED WITH
 DURABILITY AND
 STRENGTH.

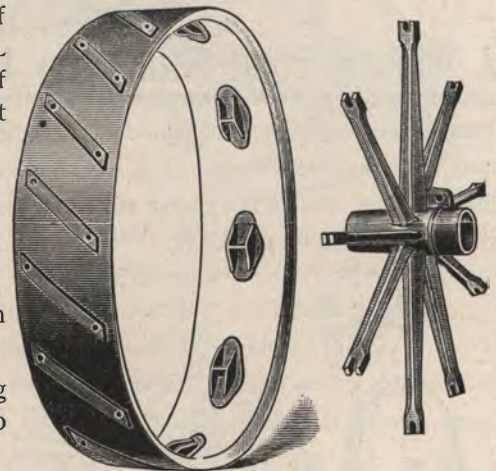


The Most Striking Illustration of **Simplicity** is the BUCKEYE WHEEL shown at the left. It consists of **ONLY TWO PIECES**, as shown at the right.

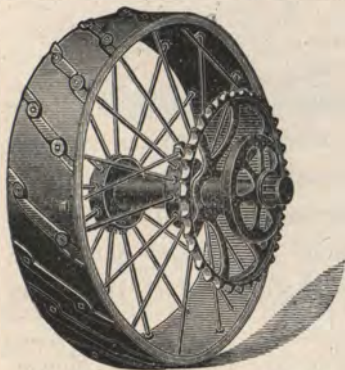


Hub and Spokes one solid piece.
 Lightest Wheel.
 Lightest Running Wheel.
 Easiest to Take Off.
 Can't be Loosened Up or Broken Down.

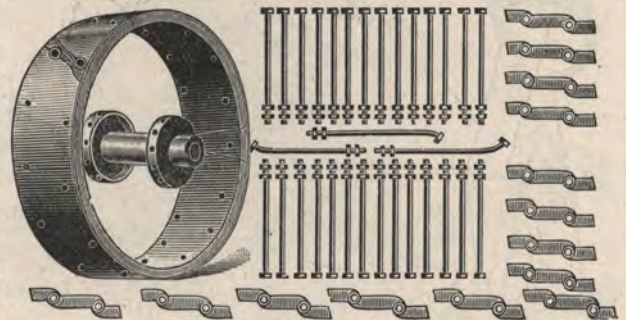
It is the **Only Self-Tightening** Wheel. All strain only tends to make it tighter and stronger.



LOOK AT THIS SIMPLE, RELIABLE, INDESTRUCTIBLE BUCKEYE WHEEL, and then
Look at this Many-Pieced, Trappy Construction.



On the left is the
 WHEEL,
 On the right are the
 PARTS
 from which it is
 Screwed Together.

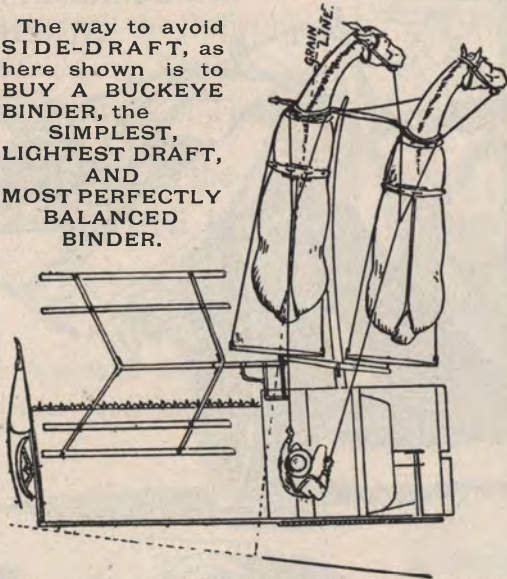


IT IS THE CHILD OF THE MONKEY-WRENCH, and woe betide the farmer who forgets to take along his wrench. He's bound to have trouble anyway unless he crawls under and tightens up the nuts frequently. It is time these ponderous things were called back to keep company with **GRANDMOTHER'S SPINNING WHEEL**.

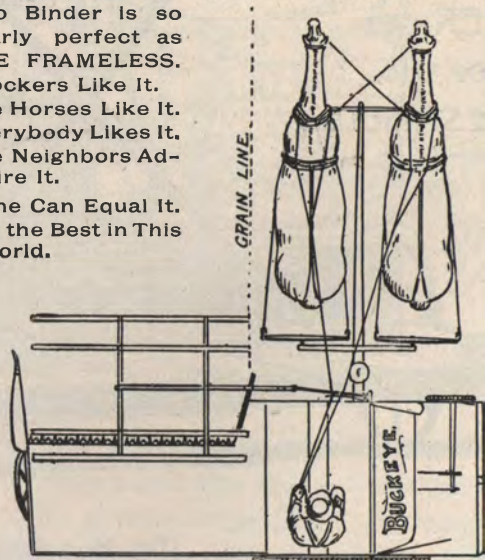
The Happiest Farmers

are those who will GO RIGHT THROUGH THEIR HARVESTS saving CASH, TIME and THEIR CROPS in the most perfect style by means of Their Ever Reliable Buckeye.

The way to avoid SIDE-DRAFT, as here shown is to BUY A BUCKEYE BINDER, the SIMPLEST, LIGHTEST DRAFT, AND MOST PERFECTLY BALANCED BINDER.



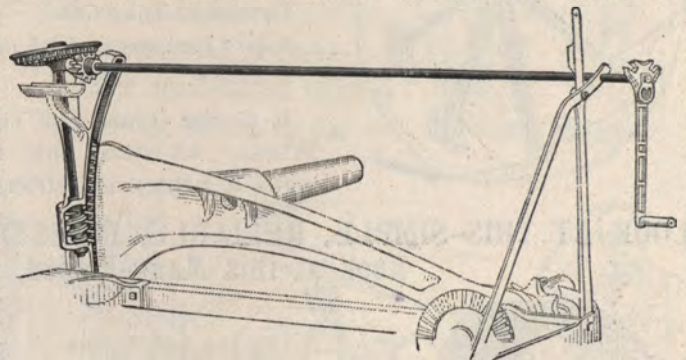
No Binder is so nearly perfect as THE FRAMELESS. Shockers Like It. The Horses Like It. Everybody Likes It. The Neighbors Admire It. None Can Equal It. It is the Best in This World.



A Winning Point With Every Farmer

is our RAISING AND LOWERING DEVICE. TAKE A GOOD LOOK AT OUR RAISING AND LOWERING DEVICE.

The wheel support and spindle constitute one piece, upon which the machine rests in such a manner that, by the intervention of a worm gear, it is raised or lowered to any desired height. This is by far the simplest and best raising and lowering device to be found on any binder. The dark part of the cut shows ALL THERE IS OF IT.



THE BUCKEYE

is designed not only to do the best work, but to do its work with the greatest ease and comfort to both the driver and his team. To do good work in all crops, tall and short, down and standing, the Binder should be raised and lowered with no greater effort than this man is putting forth.

The farmer who expects to buy a Binder or Mower ought to post himself in regard to the LATEST IMPROVEMENTS IN HARVESTING MACHINES before he gives his order. Some of the GRANDEST IMPROVEMENTS, as exemplified by the Buckeye, HAVE BEEN THE LAST.



THESE BUCKEYE AGENTS have sold their last Frameless Binders and are sorry that they have not a few more. Their three or four carloads of machines are busy at work in the neighborhood without a hitch or a break, and having nothing to do, they step out to the front and have their pictures taken. One reason why they and their farmer customers are feeling good is because

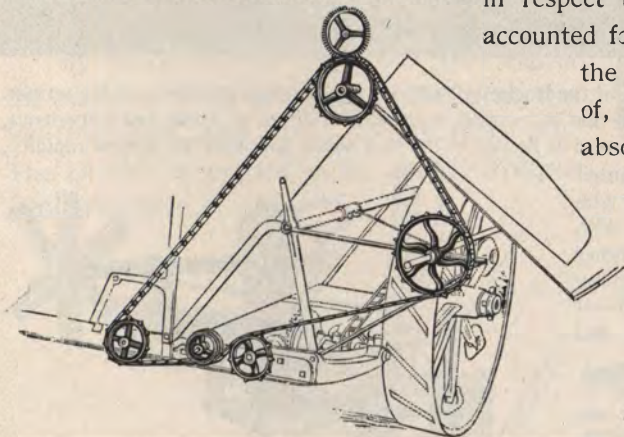
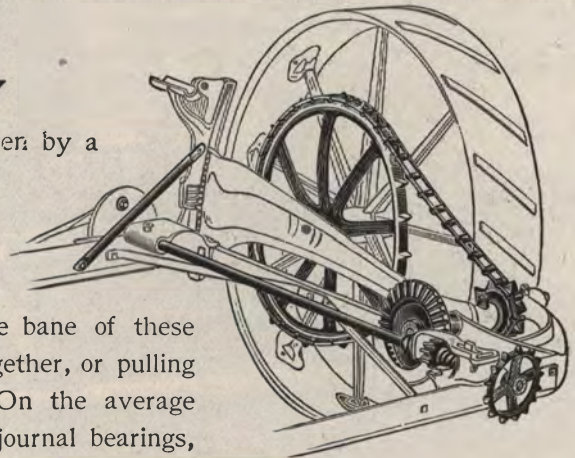
The Buckeye Takes Less Horse Power

than any other Binder. The reasons of the Buckeye's **Wonderfully Light Draft** will be plain to all who see our gears in comparison with others. Why should the farmer allow his teams to drag such needless dead weight through the hundreds of miles of harvest?

FARMERS, AVOID THESE DIFFICULTIES by securing the Easiest Running Harvester made, viz :

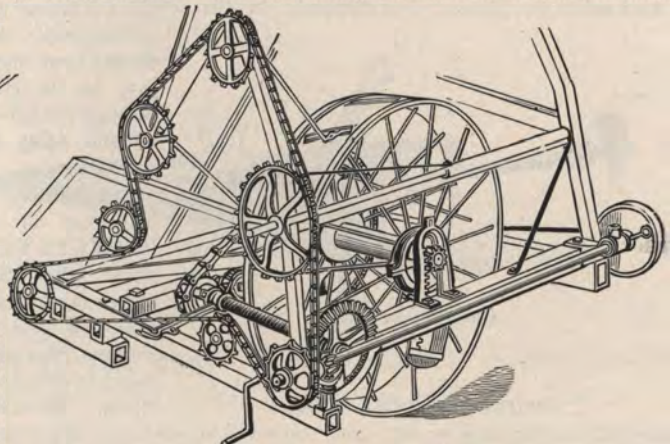
The Buckeye Frameless

The Frameless has only one gearing which is driven by a chain. THE JOURNALS OF THE GEAR WHEELS RUN IN ONE SOLID CASTING. Twist and disarrangement of any sort is thus rendered impossible. On other Binders these important bearings are divided and distributed on different parts of the machine. This is the bane of these binders, the racking of the frames jamming the gears together, or pulling them apart, thus effecting their speedy destruction. On the average many-pieced frame you will find no less than sixteen journal bearings, which may be, and often are, twisted out of line, while on the Buckeye we defy any mechanic to point out a journal which is liable to any such disarrangement. The immense superiority of the Buckeye in respect to long life and easy running are thus intelligently accounted for by the rigid instead of loose-ended axle, and by the fact that its other journal bearings are independent of, and detached from, any network of framing, thus absolutely insuring their perfect alignment.



BUCKEYE.

The SIMPLE AND EASY manner in which the MOTION OF THE WHEEL IS TRANSMITTED TO THE CUTTERS AND BINDER is one of the CAPITAL EXCELLENCIES OF THE BUCKEYE.



This is a Binder. It is fearfully and wonderfully made. Horses have to haul around "Steel" enough to build a monument to Bessemer.

Handsome in Finish, Graceful in Appearance!

THE ATHLETE OF THE HARVEST FIELD.

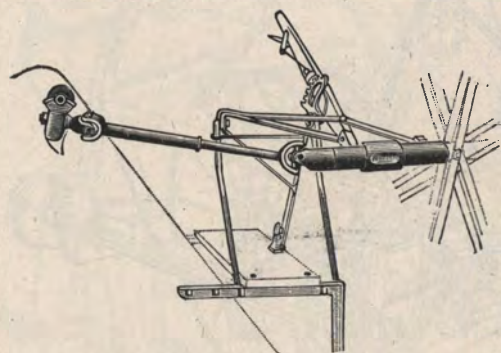


We have no hesitation in saying that the far-reaching success of the Buckeye is entirely due to the approbation of the farmer. On the other hand, the farmer has this pleasing assurance, and one that is founded on the Rock Bottom of Truth and Experience, viz: To have the Buckeye is to know, positively, that your grain will be cut in the best shape and with the utmost rapidity, ease and economy which the very best material and the most advanced mechanism can place at your disposal. In other words, the farmer who

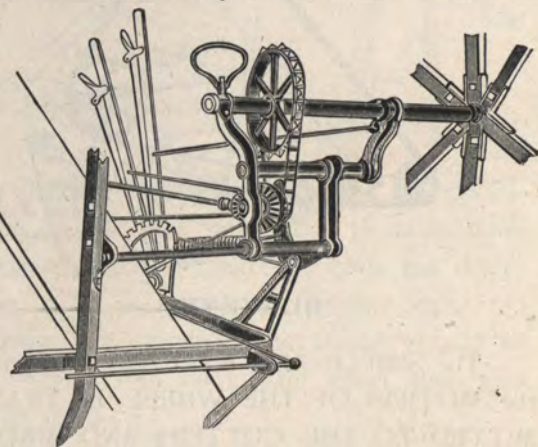
is equipped with the Buckeye knows that he is going through his harvest without delay and annoyance.

Comparative illustration of the BUCKEYE REEL shows that Simplicity may harmonize well with the greatest Convenience and Efficiency.

Posts, Sprockets



BUCKEYE REEL GEAR.

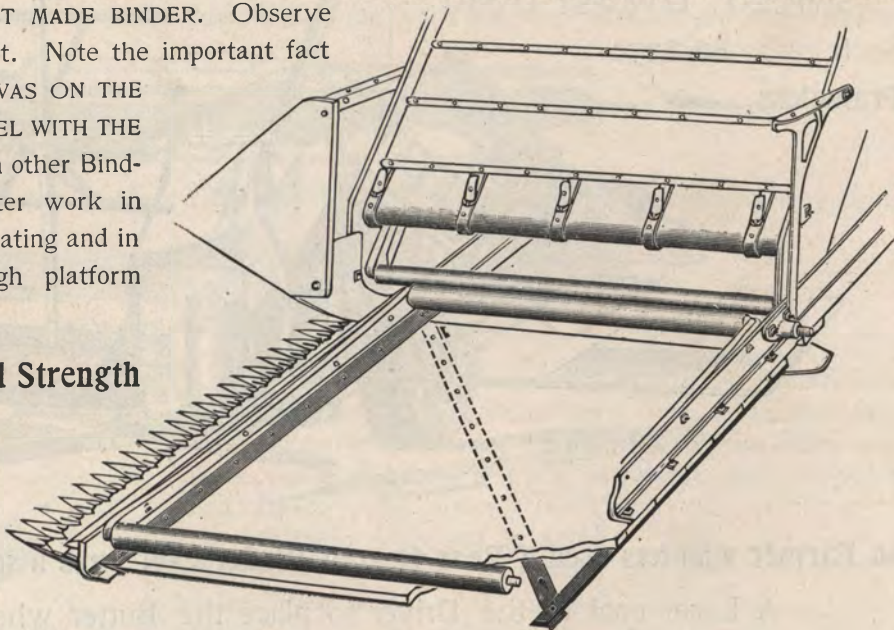


and Chains are suppressed; only one lever is needed, and yet no reel has a wider range of perfect work. The heavy, clumsy combination of chains, gears and castings at the right show the reel-propelling mechanism which was formerly deemed necessary on the Back Numbers.

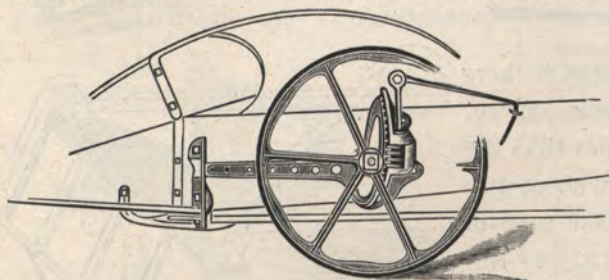
The More Buckeye Binders the farmers have, the more they want. The wider the sale, the greater the demand. It does its own advertising. It is not only

the best binder, but **THE BEST MADE BINDER**. Observe the Platform Rollers in this cut. Note the important fact that the **TOP PLATFORM CANVAS ON THE BUCKEYE IS DOWN ON A LEVEL WITH THE CUTTERS**. Compare this with other Binders. The Buckeye does better work in short grain, in reeling, in elevating and in sheaf-making than any high platform canvas can possibly do.

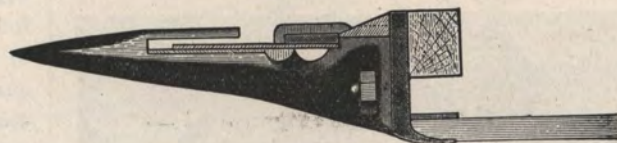
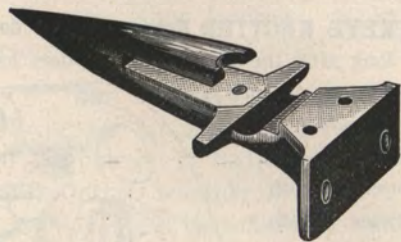
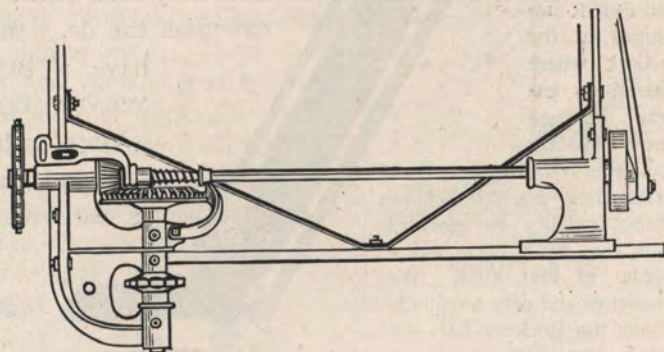
Lightness, Stiffness and Strength are the First Requisites for a Platform.



The diagonal brace, shown in above cut, and the two braces to inner end of platform, shown below, are just what is needed. The light wood floor will never wear out nor rust out, and this Platform and Bar **WILL WITHSTAND ANY SHOCK**.



By means of the crank the outer end of the machine is, **BY ONE HAND**, PLACED AT THE **RIGHT HEIGHT**, AND **STAYS WHERE IT IS PUT**. The Divider is just the thing: **LIGHT, STRONG AND EFFICIENT**.

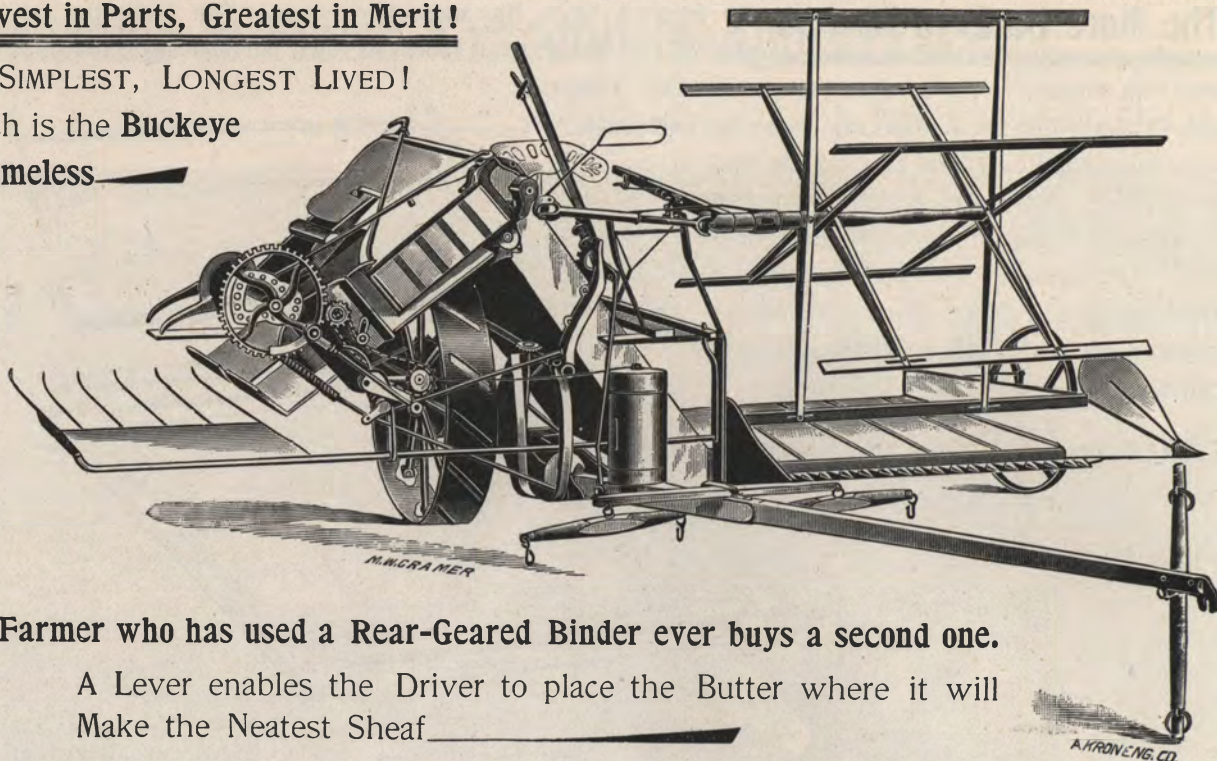


THE BUCKEYE GUARD IS DOUBLE BOLTED TO THE BAR. Avoid guards held in place by one bolt, or you will wish you had. The fine steel ledger plate makes a smooth, keen cut. The cut at the right shows how the Buckeye platform is **SLEDDED EASILY OVER SOFT PLACES**, where other binders are stopped by scraping and choking with mud.

Fewest in Parts, Greatest in Merit!

SIMPLEST, LONGEST LIVED!

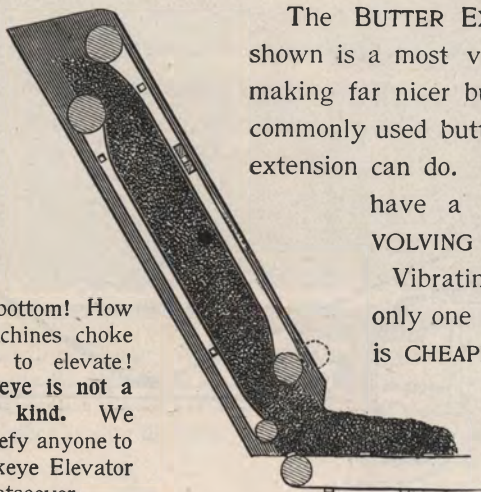
Such is the **Buckeye**
Frameless —



No Farmer who has used a Rear-Geared Binder ever buys a second one.

A Lever enables the Driver to place the Butter where it will
Make the Neatest Sheaf —

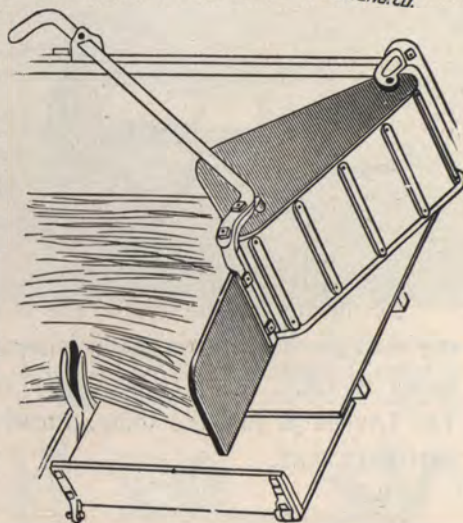
How many farmers have been disgusted with the conduct of their INFERIOR machines at the point where the straw enters between the elevating canvases at the bottom! How often their machines choke from inability to elevate! But the **Buckeye** is not a binder of that kind. We challenge and defy anyone to choke the Buckeye Elevator in any crop whatsoever.



The BUTTER EXTENSION here shown is a most valuable device, making far nicer bundles than the commonly used butter without any extension can do. Make sure to have a **BUCKEYE REVOLVING BUTTER**.

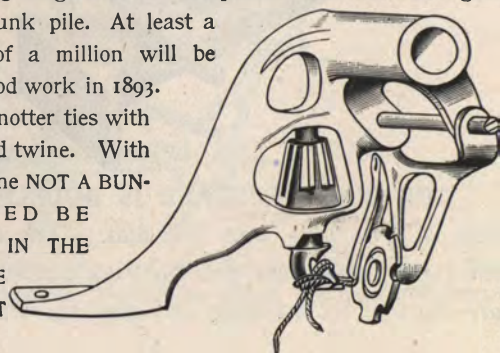
Vibrating Butters have only one merit, and that is **CHEAPNESS**.

* * * *



THE BUCKEYE KNOTTER Keeps right on doing Perfect Tying long after the cheap-made Knotters have gone to the junk pile. At least a quarter of a million will be doing good work in 1893.

Our Knotter ties with any sized twine. With good twine **NOT A BUNDLE NEED BE MISSED IN THE ENTIRE HARVEST**



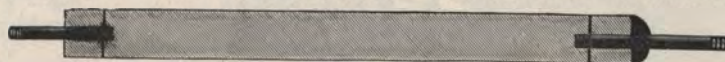
The Solid, Honest Construction

which marks the **Buckeye** from top to bottom, rendering it not only the simplest and handiest binder, but by far the most durable that the world has ever seen, is also illustrated by



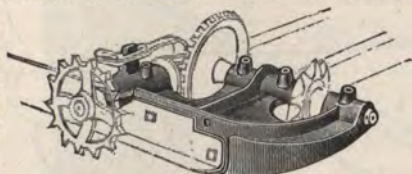
Buckeye Roller with Shaft Running Clear Through.

our rollers, which have iron shaft centers from end to end, instead of the common short gudgeon bearings.



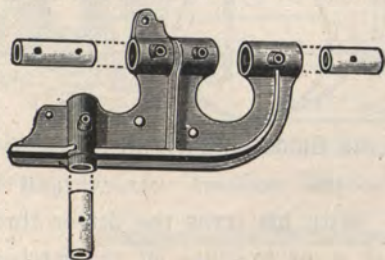
Common Form of Roller with Pins Driven in the End.

The Journals of the Buckeye's Single Gearing run in



THIS ONE LIGHT, STRONG CASTING.

Twist and Break are Impossibilities.



THESE BRASS BUSHINGS

also guarantee long life and easy running. Another good example is



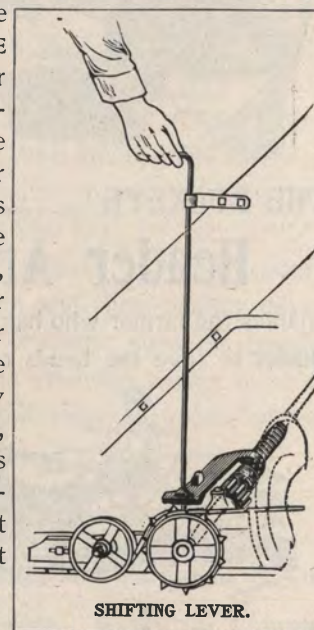
THE BUCKEYE CRANK SHAFT BOX,

which, like the other bearings, shows long boxing, brass lined or bushed.

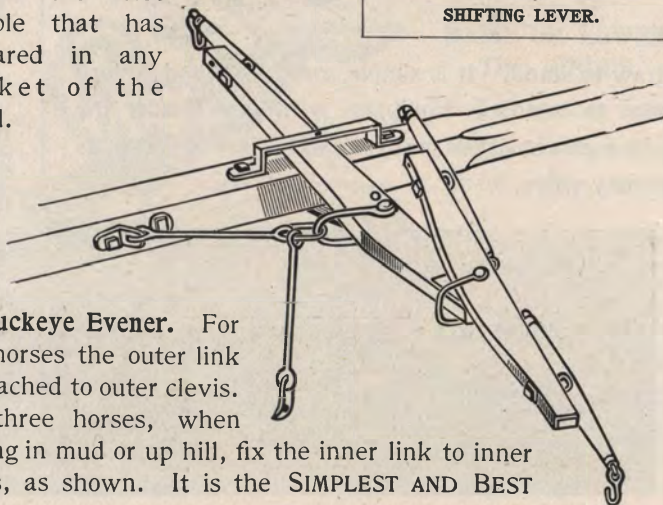
THE JOURNALS

of the Buckeye's Single Gearing run in handy oiling places; in fact, it only depends on the farmer whether his Buckeye Binder, the very best that masterly skill has yet produced in all other respects, shall not also LAST A LIFETIME. For without durability all the other merits are "As Sounding Brass and a Tinkling Cymbal."

A good example of what is meant by durability in binders is our Crank-Shaft Box, with its brass lining. A still more striking illustration is found in the peculiar Gear Frame used on the Buckeye. Long journals, long boxes, brass bushed or lined, handy oiling places. Note also that these gears run in ONE SOLID FRAME or casting. On other binders these bearings are distributed over different parts of the machine. The least racking of their frames, which are of various pieces bolted together at the ends, jams the gears together, or pulls them apart, destroying the binder. The reader can see for himself that twist or racking of the Buckeye Gear Frame is an impossibility. There is only space here to add that this solid, honest kind of work characterizes the Buckeye Binder from top to bottom, rendering it not only the most simple and convenient machine, but by far the most durable that has appeared in any market of the world.



SHIFTING LEVER.



Buckeye Evener. For two horses the outer link is attached to outer clevis. For three horses, when driving in mud or up hill, fix the inner link to inner clevis, as shown. It is the SIMPLEST AND BEST EVENER.



THIS BUCKEYE Clover Attachment

often comes handy in Buckwheat, wet Oats and other crops. Clover can be saved **EASIER** and **FASTER** than in any other way.

A good Binder makes things
Comfortable and
Convenient for
the operator.



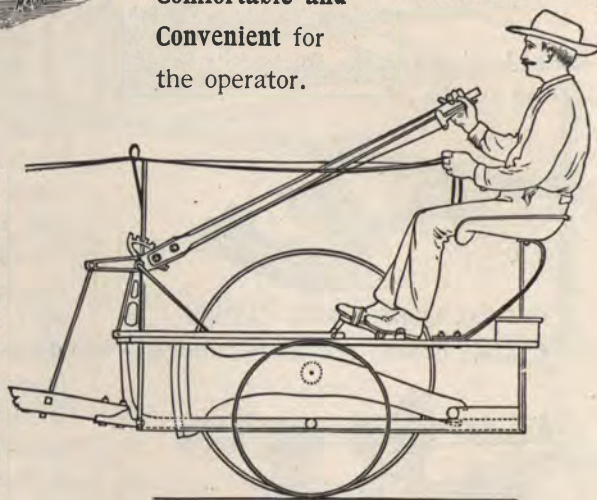
Flax is handled with
Gentle Movements that
cause no loss of seed.
The draft is very light.
A BOY CAN HANDLE IT.

THE BUCKEYE Header Attachment

enables the farmer who has the **Buckeye Frameless Binder** to save the heads of his grain, leaving the



straw to stand. It is simple, runs light and is very easy to handle. Equipped with our **Header** the farmer can head his grain or bind it into sheaves, as he may wish.



Notice the **Line Guide**. Many an accident has occurred because the machine was without this simple device. With **his lever** the driver throws the cutters down so as to shave off the patches of fallen grain. He also puts the band where he wants it. He has **Perfect and Easy Control of the Entire Machine**.

South Dakota, with less than 300,000 population, produced last year 60,000,000 bushels of wheat and 60,000,000 bushels of oats. The following photo-engraving shows how the harvesting was made possible. The **Buckeye** does the cutting, tying and sheaf-gathering. But owing to the vast crop there was a great scarcity of harvest hands **to do the shocking**. Ten years ago this land was unbroken prairie.



THE BUCKEYE BANNER BINDER



.. IS THE
.. MACHINE ..

This is the Binder that fills that "long felt want" on the part of farmers who desire a **HANDY, LIGHT, LOW TWO-HORSE BINDER**. Naturally they want a machine that is the equal of the best elevator binder in working qualities. Such is the Buckeye Banner Binder.

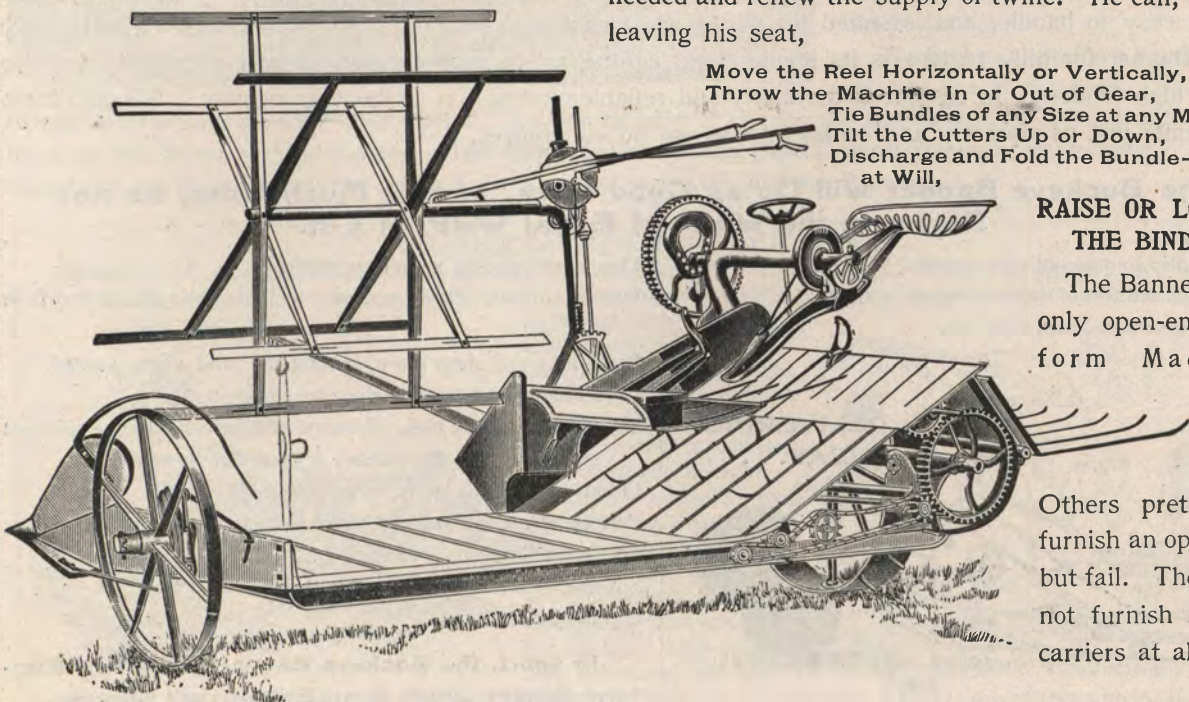
It can truly be said that **NO MACHINE HAS A GRANDER PROMISE OF USEFULNESS THAN THE BANNER**, and it sells itself at sight, because it is exactly what thousands of farmers are resolved to have.

IN FURNISHING THIS LIGHT AND SIMPLE MACHINE, **AULTMAN, MILLER & CO.** DO NOT "SEND A BOY TO DO A MAN'S WORK." It is A PERFECT MODEL OF SIMPLICITY AND DURABILITY, and its field work fills the most exacting farmers with delight. With the possible exception of the exceptional Buckeye Frameless, there is no binder on which an **EQUAL OUTLAY OF HORSE-POWER WILL BE REPRESENTED BY SO GREAT AN AREA OF NICELY CUT AND WELL BOUND GRAIN**. On hilly ground it far surpasses every binder. Its open-end platform and sheaf-making device enables it to perfectly handle the highest rye, as well as short crops. The machine sizes the bundles automatically, so that the driver may go ahead all day, giving the binder no attention except to oil as needed and renew the supply of twine. He can, without leaving his seat,

Move the Reel Horizontally or Vertically,
Throw the Machine In or Out of Gear,
Tie Bundles of any Size at any Moment,
Tilt the Cutters Up or Down,
Discharge and Fold the Bundle-carrier
at Will,

**RAISE OR LOWER
THE BINDER.**

The Banner is the
only open-end Plat-
form Machine.



Others pretend to furnish an open end, but fail. They cannot furnish Bundle-carriers at all.

The Buckeye Banner Binder.

LIGHT, LOW, SIMPLE. THE LIGHTEST AND HANDIEST BINDER. OPEN-END PLATFORM. WILL HANDLE ANY LENGTH OF GRAIN. PASSES THROUGH GATES. HAS NO ELEVATING CANVASES. FIRST-CLASS BUNDLE CARRIER.



VERY MANY FARMERS prefer this form of binder. It is low, light, narrow enough to pass gates, and has the general appearance of a reaper rather than that of a binder. It is readily drawn by two horses, is very easy to handle, and is stored for winter in a comparatively small space. A striking advantage of the Banner for hilly regions is its lowness and lightness. In such territory it will eventually displace all the high binders. In respect to durability and reliable binding it is without a superior. We guarantee the Banner just as squarely and confidently as we do our mower.

The Buckeye Banner Will Do as Good Work, and as Much Work, as any Binder in the World of Equal Width of Cut.

It is handled by two ordinary horses.

It has only ten feet of canvas instead of thirty.

Its main gear is inclosed from dirt.

One lever puts the reel where wanted.

Driver controls whole machine, including bundle-carrier, from his seat.

Binds long and short grain, putting the band where wanted.

Deck tedders and guide make nice square butts.

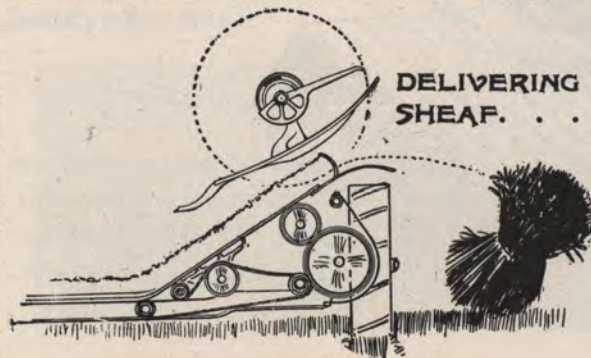
Sheaves are tightly tied. Bundles are delivered at one side, out of the way of the horses, or upon bundle-carrier.

Grain cannot bank up or crowd the needle.

Perfect separation and discharge in tangled grain. No waste; no shelling; no side-shaft; no neck weight.

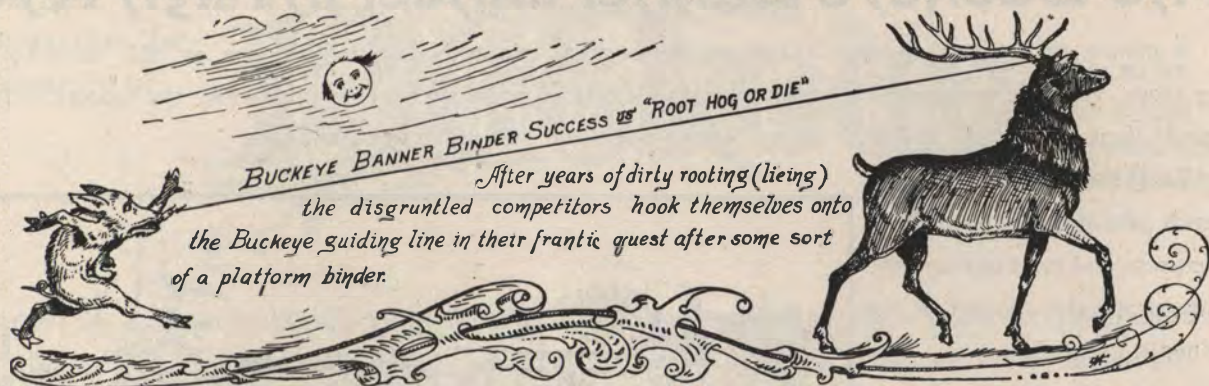
Superior to all for hills and mountains.

Cannot be upset.



In short, the Buckeye Banner is the only Platform Binder which is an Established Success.

THE BANNER is a Universal Favorite ^{with} the Farmer.



IT SAVES MONEY, TIME, TWINE, LABOR, VEXATION AND STORAGE SPACE. The Banner Binder dispenses with the two elevating canvases. Its platform canvas is ten feet long; other binders have to keep up from twenty to thirty feet of canvas. The machine is raised and lowered with the greatest ease. Tedders carry the grain to the binding apparatus,

where it is formed into a neat bundle and bound with absolute certainty. When bound, the bundle is delivered at the side of the machine, and quite out of the way of the team on the next round.

Aultman, Miller & Co. was the first house to invent and build platform binders. The Banner is the only successful platform binder in the world.

The separation of the bundles is complete in all kinds of grain, a feature which widely distinguishes the Buckeye from the several other unsuccessful experiments in the platform binder line.

The Banner, alone, has a Bundle-carrier, and it is one of the finest. The Banner

Bundle-carrier is under the driver's easy control. It saves the labor of carrying the sheaves together by hand, and also saves the grain that is lost by hand carrying. The other so-called platform binders cannot employ a bundle-carrier. In short, there is but one successful platform binder in existence, and that is the Buckeye Banner.

EXAGGERATION IN ADVERTISING.

Farmers must sometimes smile at the frantic efforts made by certain binder concerns in the way of disparaging contrasts. For example, the farmer owning one style of machine is represented as getting through his harvest in the melancholy shape

shown at left; while the concern doing the advertising claims that, with his binder, the heaviest harvest can be cut with the happy effect on horse-flesh shown at the right.

Pictured contrasts are useful in illustrating differences and improvements in mechanism. As to the probable effects of such changes, the man who has a good knowledge of the case can draw his own

conclusions. If mechanical simplicity in a binder lightens draft, then certainly no binder can vie in this respect with the Buckeye.



The Buckeye Banner Binder in High Rye

A glance at the cut on page 15 shows the peculiar adaptation of the machine to the handling of long crops, viz.: the open-ended platform and the short but positive elevation insured by the tedders. The tying is done with that precision which characterizes ALL THE BUCKEYE BINDERS.

This book would not hold a tenth part of the letters which, in express and most enthusiastic terms, praise the conduct of the Banner in tall grain.

**Side Delivery,
Easy Handling,
High Rye and Flat Crops
Saved and Bound
in Best Shape.**

**Little Elevation, No
Lifting Canvas Required,
Perfect Separation.
Simple, Convenient.**



A GRAND MACHINE FOR FARMS OF MODERATE SIZE

Because it will harvest the farmer's crop with the least expenditure of effort to himself and team, and do it in faultless style. It can cut the lowest stubble; it will shave the ground clean; it binds all crops neatly and tightly; it makes the neatest sheaf; it sizes the bundles at the will of the driver; it will bind any length bundle in the middle; it has the most perfect Bundle-carrier; it has Brass-lined Boxes all around; it is a perfectly balanced binder; its knoter is a perfect device. **LIGHTEST IN WEIGHT, FINEST FINISH, EASIEST TO HANDLE.** No neck-weight; no side-draft; no choking or clogging—nothing but straight business; no Binder can equal it in handling down grain. The light, self-tightening, incomparable Buckeye Wheel is used on the Banner.



CUTTING SHORT GRAIN.

We have dwelt a little on the excellent work the BANNER is capable of doing in tall grain. In hilly, rye-raising districts it is rapidly **DISPLACING EVERY OTHER FORM OF BINDER.**

Naturally the BANNER IS AT HOME IN THE SHORTER CROPS. The elevation required is slight and is positive. The REEL AND WIND CANVAS can be put **EXACTLY WHERE WANTED.** A wind canvas is furnished with every Banner



WIND CANVAS

Do not
Underrate the
Capacity of

The Buckeye

Because of
Its Light
Appearance
and Small
Size.

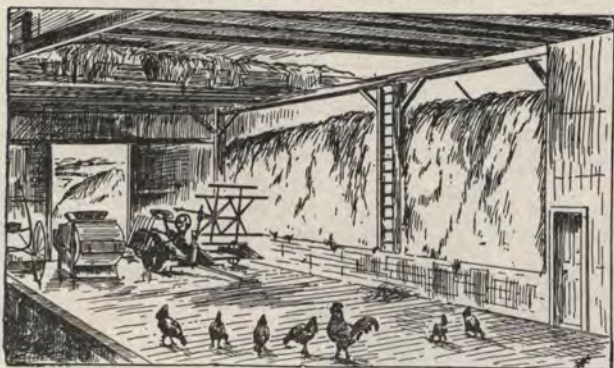
DON'T BE AFRAID TO ASSAIL YOUR HEAVIEST GRAIN with it. It will do as much work, as nice binding, as perfect work in short and tangled crops, and do it with less labor, less twine, less worry, and far greater satisfaction than any old style, girder-frame machine that was ever screwed into existence.

.....
**The Buckeye Bundle-carrier
Dumps Its Load as Easy
As Falling Off a Log.**

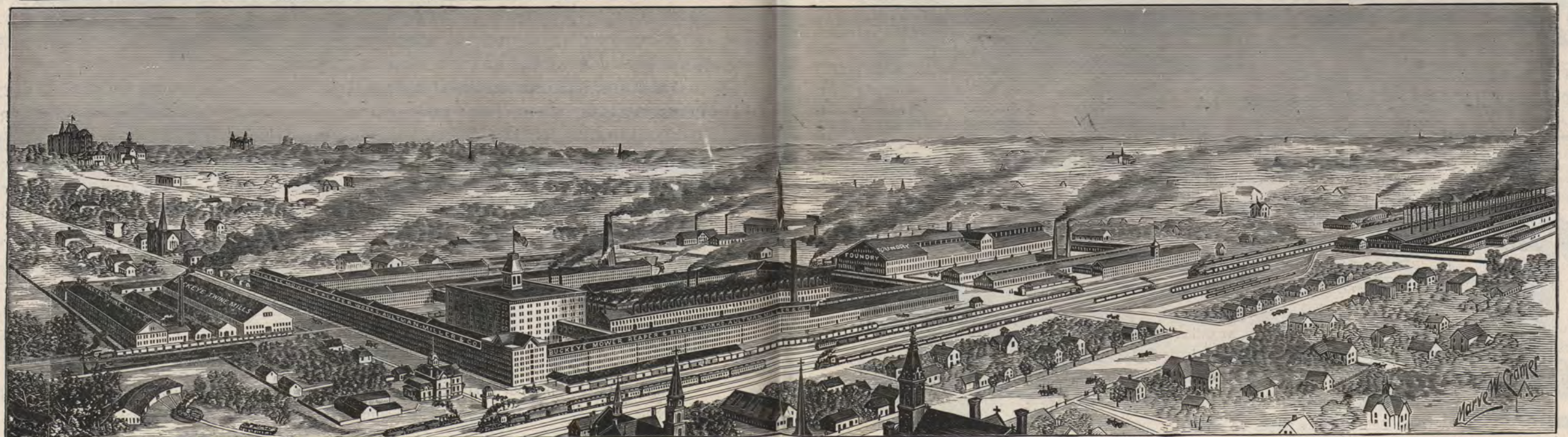
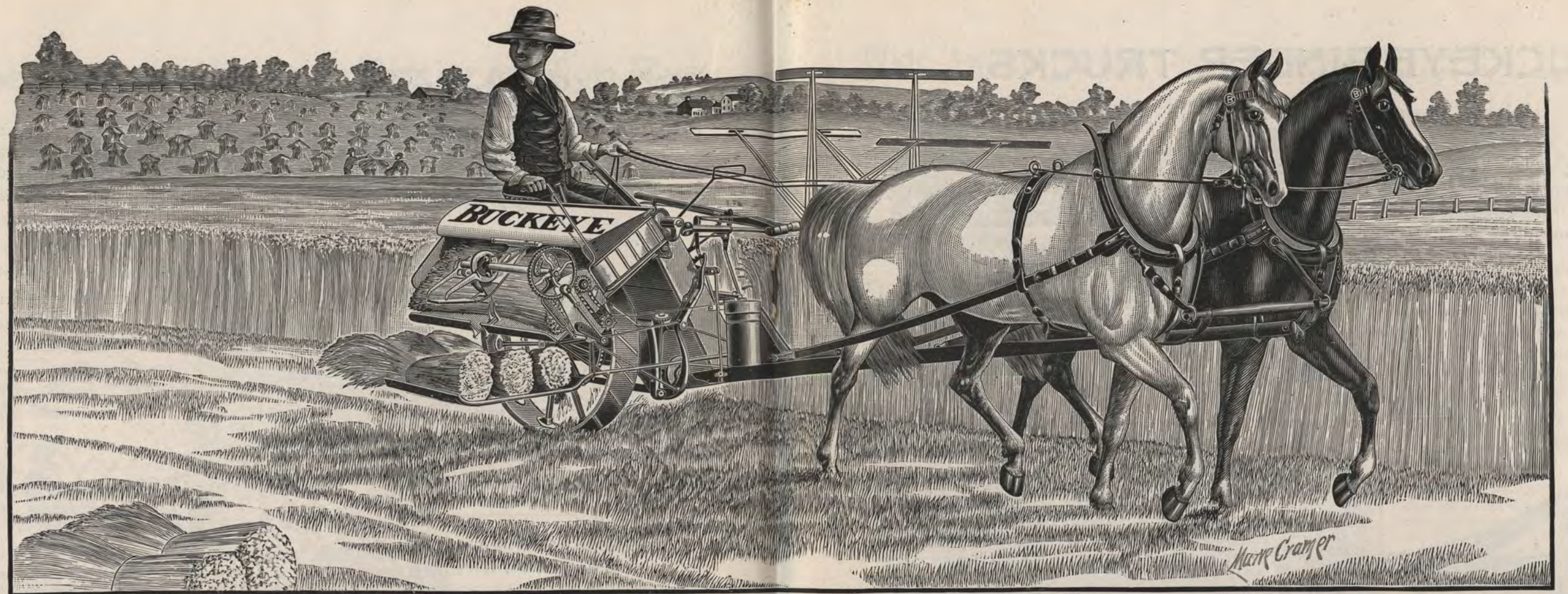
.....
**Easily Handled,
Easy to Move from Place to
Place; Passes Gates, Bars
and Bridges.**



There is no feature of Harvesting Machines which pays the investment better than the BUCKEYE BUNDLE-CARRIER. It receives the bundles as they are bound, and SAVES THE FARMER ALL THE DRUDGERY OF SHEAF GATHERING. In addition to this it saves the shelling out of over-ripe grain in dragging the sheaves over the stubbles. We have been furnishing bundle-carriers for some years, and the rapidly increasing demand proves that they are exactly what the farmers want. The BUCKEYE CARRIER is at every moment UNDER THE COMPLETE CONTROL OF THE DRIVER, and is at once the simplest and most reliable and efficient Bundle-carrier made.



Purchasers of either our Frameless or Banner Binders can have the BUCKEYE BUNDLE-CARRIER with their machines if they desire. The Banner can be stored in as small space as a reaper.



TWINE MILLS.

OFFICE.

MAIN BUCKEYE HARVESTER WORKS.

FOUNDRY.

KNIFE WORKS.

ROLLING MILL.

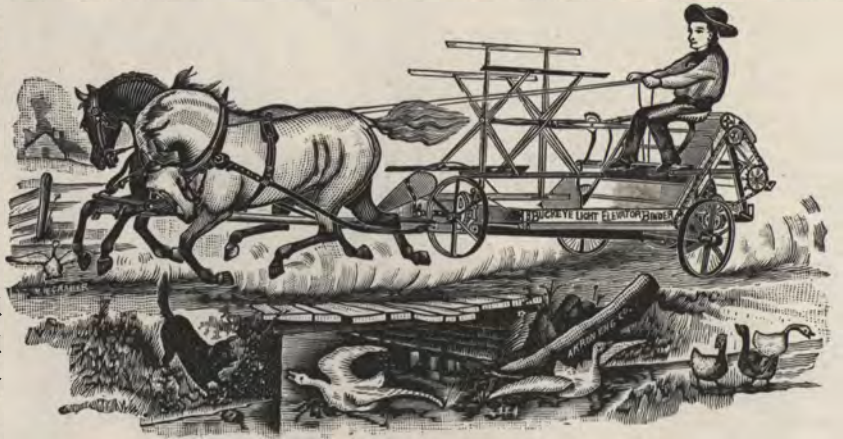
AULTMAN, MILLER & CO.'S BUCKEYE HARVESTING-MACHINE WORKS, AKRON, OHIO, U. S. A.

BUCKEYE BINDER TRUCKS

**Handy, Safe and Convenient
For Moving Binder
For Considerable Distances.**

**The Entire Binder Structure
Is Firmly Supported
From End to End.**

The cut shows the binder loaded on our two-wheeled truck. It is loaded by simply lifting the binder well up by means of the harvester lifting crank, when the truck is run under the platform end to its place beneath the binder. Then use the crank to lower the binder, when the drive-wheel is lifted off the ground and the machine is loaded. The binder tongue being attached to its place, the truck can be driven over the roads, and from field to field as easily as a cart.



The Buckeye Truck is strongly made, and is a perfect model of simplicity and convenience. This truck is adapted to the easy transport of the Buckeye Frameless and Banner Binders.



STRONG OLD-FASHIONED TRUCK (BUILDING OPERATIONS IN SIAM).

A Supply of Good, Reliable Twine is a Very Important Part of Every Harvester Outfit.

Buckeye Twine is unsurpassed in length, strength and uniformity. IN STARTING TO USE TWINE, PULL BY THE TAG, which will be found on every ball of Buckeye Twine.

OUR TWINE-BOX holds two balls. Knot the upper end of lower ball to the lower end of upper ball, then thread the needle from the upper ball. Bad twine, like useless complication in machines, breeds discomfort, vexation and expense. Avoid waste and trouble by securing Buckeye Binder-twine.

Aultman, Miller & Co. don't give their twine a fancy name. They stamp it straight "BUCKEYE," which means "THE BEST." See pages 23 and 24.



Wide Awake Farmers Insure Themselves Against Imposition, Monopoly and Fraud by securing **Buckeye Twine**



MANILLA TREE.

AULTMAN, MILLER & CO.'S twine manufacturing enterprise has proved to be most satisfactory. It has freed our trade from the impositions of hostile interests and monopolies. We buy fresh twine stock from the importers of raw material, and make all popular grades of twine, viz: Pure Manilla, Pure Sisal and Buckeye Mixed Twines.

The experience of our patrons has thoroughly established the fact that by using Buckeye twine the farmer is assured of immunity from the vexations to which he is constantly liable from the use of inferior grades. While it is true that the Buckeye knoter can utilize all grades of twine in binding, we need hardly say that the better the twine the more regular and perfect is the work of the machine. **We guarantee our product**, and invite correspondence from all who desire first-class twine in large or small lots.

Farmers know that Buckeye twine is always as represented, and we are assured of a large demand for 1893.

Get Buckeye Manilla, Sisal, or Mixed, **ALL GUARANTEED**, and you will reap the reward of wisdom.

IF YOU HAVE A BUCKEYE BINDER, put the cap sheaf on your good fortune by securing **BUCKEYE TWINE**. Get Genuine Buckeye Twine anyway, and avoid the cheap-made, high-priced monopoly stuff.

"Aultman, Miller & Co. have Greatly Enlarged their Twine Plant.—Besides adding new machinery, they are erecting a warehouse, 250 x 200 feet, about twice the size of the old one which it is to replace. Part of the machinery will now be run by electricity, furnished by the Akron Electric Light & Power Co."

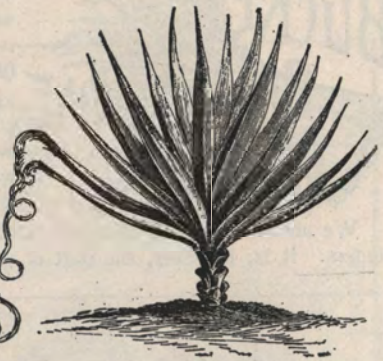
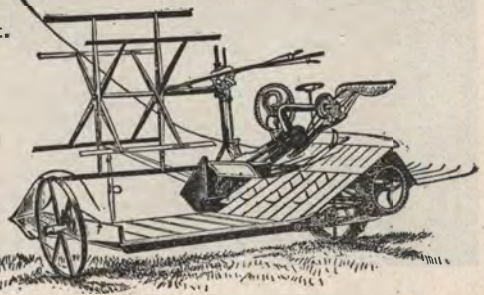
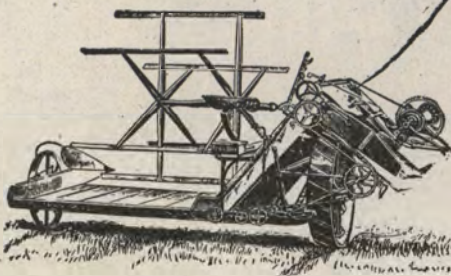
—AKRON BEACON,

July 10, 1892.



Doctored Mixtures, Colored Sisal, and the Other Twine Frauds, have no place in our product.

OUR TWINE, LIKE OUR BINDERS, MUST BE THE BEST.



SISAL PLANT.

CHARACTERISTICS OF BUCKEYE TWINE:

Length and strength.
Freedom from bunches and faults.
Exemption from mildew and insects.
Ample tensile strength.
Uniformity in size and strength.
Careful balling and baling.
Low price for good quality.
Perfect binding qualities.

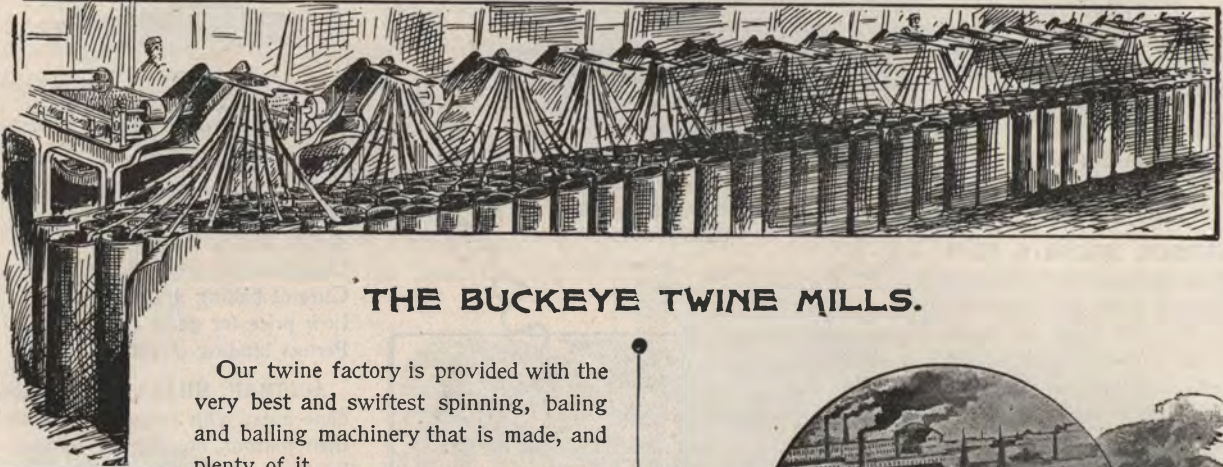
AULTMAN, MILLER & CO. have done away with twine troubles for their patrons, once for all, by making their own twine. We manufacture twine of all the various grades of Manilla and Sisal, and can furnish the same in large or small lots, guaranteeing that it will give entire satisfaction. Persons in want of good twine can save money by buying of us. Since we have commenced to supply our patrons with Buckeye twine, made in our own factory at Akron, there is no more complaint about twine trouble. We are running our works day and night, making every effort in our power to supply all our friends with this splendid brand of guaranteed twine at rock bottom prices. With our Buckeye Binder and an outfit of Buckeye Twine, the farmer can fearlessly assail any crop that grows. **He is master of the situation.**

Our Twine, like our Binders, must be the best. We cannot afford to have it otherwise.



Aultman, Miller & Co. obtain their raw fibers from first hands. The prices of fibers vary, but not so greatly as the trust boom factories pretend. The makers of Buckeye twine have no difficulty in satisfying their customers as to price as well as quality. As makers of twine-binders it coincides with their interest **TO KEEP DOWN THE PRICE AND TO KEEP UP THE QUALITY.** Whereas the trusts, with which pretty much all the other factories are identified, boom the price and cheapen the quality. It is not only natural, but it is correct, to suppose that the most successful builders of twine-binders should also be the best makers of the most reliable material for use on their machines. **We cannot and will not cheapen the quality of our twine** so that breaking has to be constantly feared. or so that large bundles cannot be bound and handled with impunity.

We are running our enlarged plant day and night, and intend to be able, in any event, to supply all who have Buckeye Binders. It is, however, the part of wisdom to secure your supply of Buckeye Twine in good season.

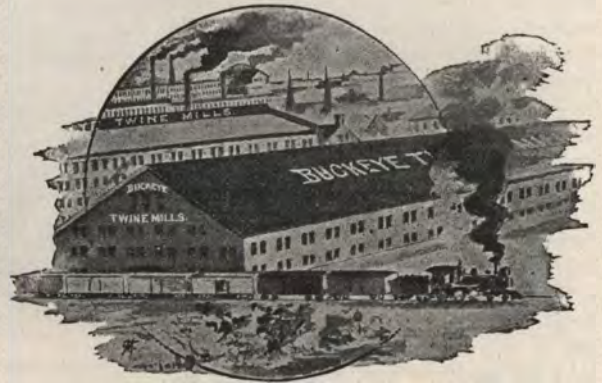


THE BUCKEYE TWINE MILLS.

Our twine factory is provided with the very best and swiftest spinning, baling and balling machinery that is made, and plenty of it.

The photo sketches of several rooms here presented will give the reader some idea of the nature of this very interesting equipment. The operatives are skilled in their work. Using only the best material, the twine produced has made the **Buckeye Brand** justly Famous.

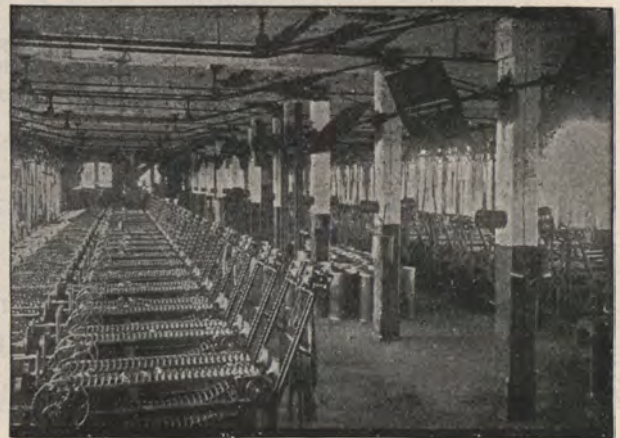
We ask special attention to our Manilla Twines, which we consider the cheapest and best for farmers to buy the present year.



ADDITION TO TWINE MILLS, JUST COMPLETED.



TWINE BREAKERS AND SPREADERS.



TWINE SPINNERS.



THE BUCKEYE

FIRST, FOREMOST AND BEST OF ALL GRASS-CUTTERS.



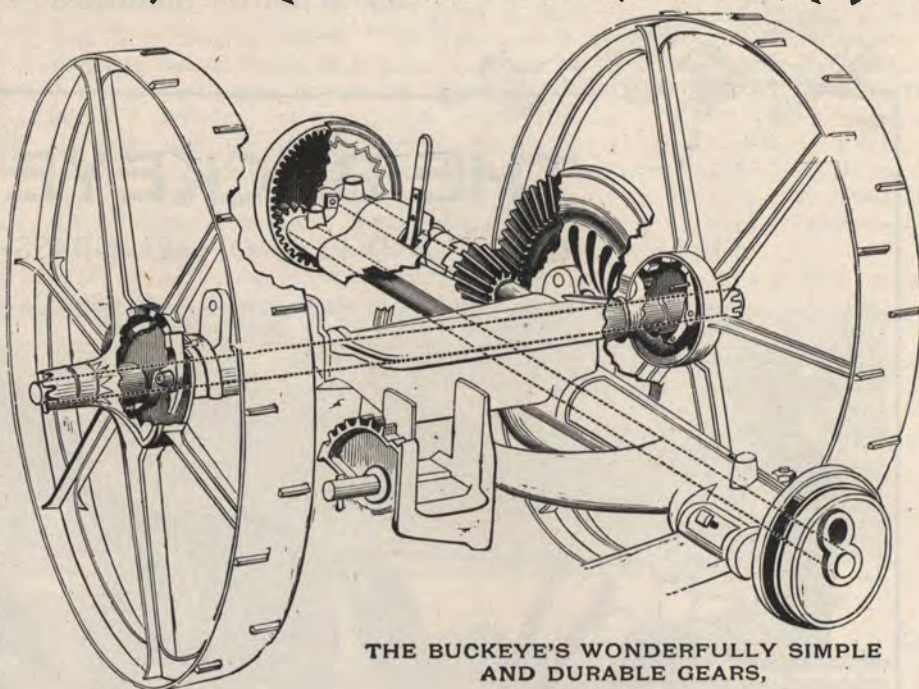
THE HIGHEST SPEED WITH THE LEAST FRICTION. LIGHTEST RUNNING, STRONGEST, MOST DURABLE, EFFICIENT AND CONVENIENT. The Buckeye has been crowned with the GRAND PRIZES and the HIGHEST COMPETITIVE HONORS attainable in THIS WORLD.



The First Successful Mower Was the Buckeye.

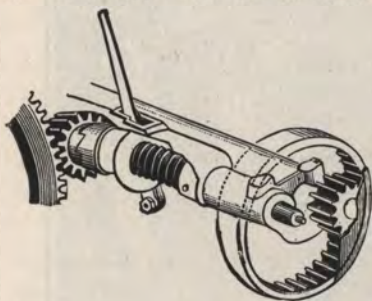
THE GREAT
PRIZE WINNER
IN HOME
AND FOREIGN
LANDS.

HIGH WHEELS,
WIDE TREAD,
SAFETY,
DURABILITY,
SPLENDID
WORK.



THE BUCKEYE'S WONDERFULLY SIMPLE
AND DURABLE GEARS,

Relative Place of Bevel and Spur Gears. See how the slow motion is by bevel gears, and the fast speed through spur gears, which will stand twice as much wear as bevel gears. All other mowers are geared wrong in this respect. All wearing parts are amply shielded against mud and dirt. The entire weight of the machine is carried on the driving wheels and is utilized as power. The leading wheel carries all the weight of the cutter-bar which is not needed to hold it down to its work. At the inside shoe the width of the hinge is 13 inches, while at the frame the extreme points of the inner hinge are more than two feet apart. This powerful form of hinge and brace is peculiar to the Buckeye.



The Buckeye is a standard machine of the highest type of excellence, and has, for nearly fifty years, PROUDLY MAINTAINED ITS PLACE IN ADVANCE OF ALL OTHER MOWERS. A glance at the following pages will show that the Buckeye has been equipped with NEW AND MOST VALUABLE DEVICES possessed by no other mower.



PHOTO PRINT OF A WESTERN STATION ON THE BUCKEYE LINE,
FROM WHICH MORE THAN ONE THOUSAND BUCKEYES ARE SOLD YEARLY.

THE BUCKEYE, KING OF THE MEADOW

LIKE ALL KINGS,
VINDICATES SUPREMACY
BY KNOCK-DOWN FACTS.

TUBULAR FRAME AND LONG CRANK- SHAFT of the BUCKEYE.

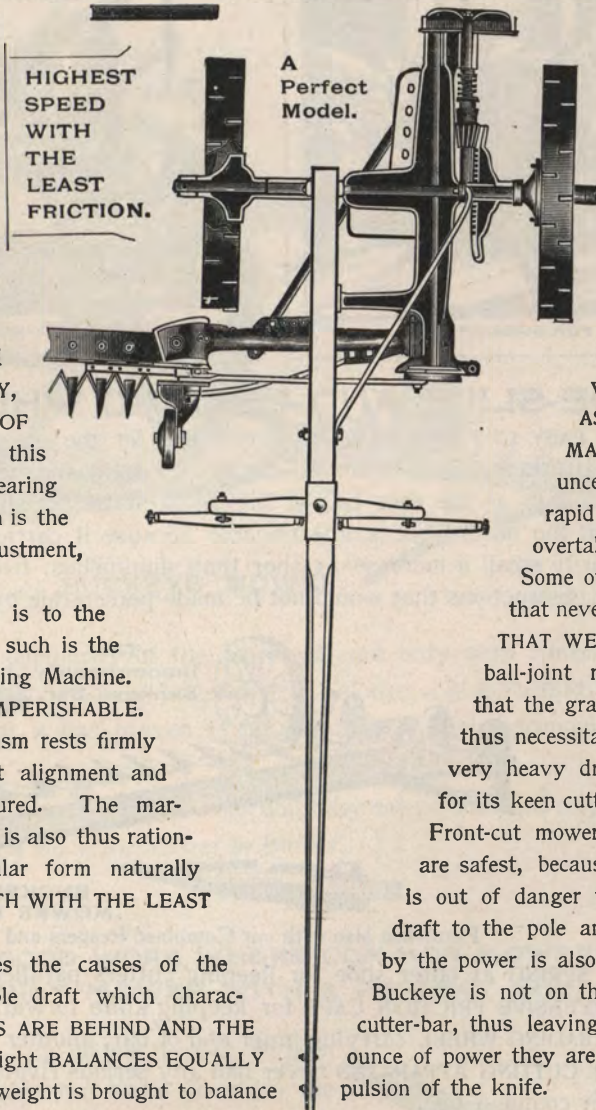
In the face of the universal effort to cheapen the construction of mowing machines, we continue to furnish this long crank-shaft on our New Buckeye Mowers. Experienced farmers well understand the advantages conferred by this long shaft in DURABILITY, STEADINESS AND LIGHTNESS OF RUNNING. The rear bearing of this shaft runs in brass. The front bearing has long, adjustable boxing which is the perfection of convenience of adjustment, solidity and long endurance.

That which the frame-work is to the mill, and the bones to the body, such is the gear frame to the Buckeye Mowing Machine. It is TUBULAR, INFLEXIBLE, IMPERISHABLE.

Every bearing of the mechanism rests firmly against this solid base. Perfect alignment and great durability are thus assured. The marvelous light draft of the Buckeye is also thus rationally accounted for. The tubular form naturally affords the GREATEST STRENGTH WITH THE LEAST WEIGHT OF METAL.

The diagram also illustrates the causes of the perfect balance and the equable draft which characterize the Buckeye. The GEARS ARE BEHIND AND THE CUTTERS IN FRONT. Their weight BALANCES EQUALLY OVER THE AXLE. The driver's weight is brought to balance

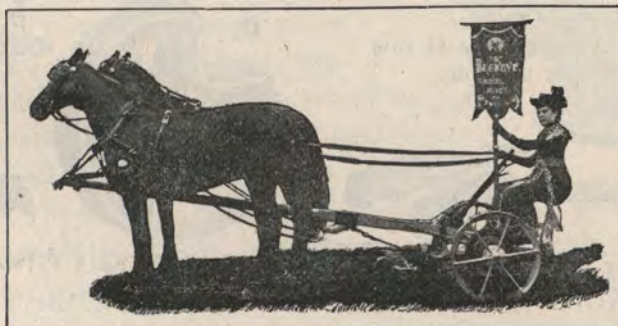
See the Comparative Length of the BUCKEYE CRANK-SHAFT with those on other mowers.



by means of an adjustable seat-spring. The tongue is placed between the gears and the cutter-bar, thus suppressing all side-draft. The motion of the power is imparted to the knife through a pitman WITH PARALLEL BEARINGS, OR HOOKS, AT ITS TWO ENDS, thus giving the knife, while cutting, as FIXED A PLACE AS ANY OTHER PART OF THE MACHINE, and doing away with the uncertainties, the infirmities, and the rapid decay which speedily and certainly overtake mowers using toggle joints. Some of the latter claim to make guards that never wear out. IT IS THEIR HORSES THAT WEAR OUT. The cutting edges of ball-joint mowers are speedily blunted so that the grass is torn off, rather than cut off, thus necessitating stocky guards, and entailing very heavy draft. The Buckeye is celebrated for its keen cutting and light draft.

Front-cut mowers (first made by the Buckeye) are safest, because the driver, in case of a fall, is out of danger from the cutters. Application of draft to the pole and consequent pushing of the bar by the power is also thus avoided. The draft of the Buckeye is not on the pole, but is directly from the cutter-bar, thus leaving the drivers free to apply every ounce of power they are capable of furnishing in the propulsion of the knife.

The Buckeye Mower,
Victorious in every field contest. It has won the highest honors for American invention, and is recognized as King of the Meadow around the whole earth.



The Buckeye Mower.
A thing of beauty in the meadow, and a joy forever to the farmer. Lightest and most graceful of all Grass Cutters.



GETTING READY FOR SUMMER.

THE FIRST BUCKEYE.

Below is a picture of the first Buckeye Mower. It was invented by Lewis Miller in 1856. The most comprehensive of his numerous Buckeye patents, is number 20,180, dated May 4, 1858.



To this machine was awarded the first prize and gold medal at the famous field trial held at Syracuse, N. Y., by the United States Agricultural Society in July, 1857. This is the most important prize ever bestowed upon any harvesting machine in the world.

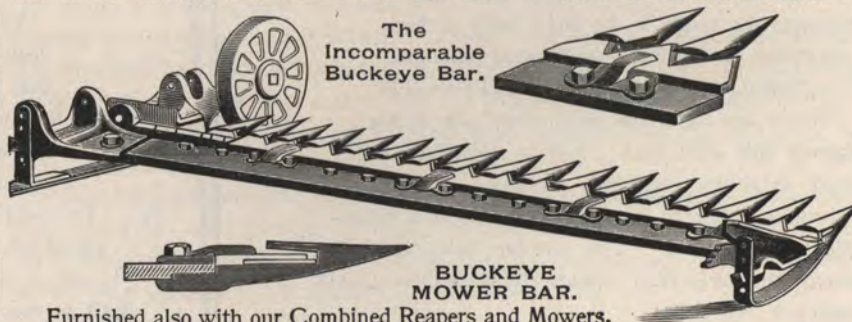
SHOE-SLIDE AND LEADING WHEEL.

To make SMOOTH AND EASY CUTTING the cutters should enter the grass on a line parallel with the surface. This is what the BUCKEYE does, and the bar is placed at the height required by the nature of the ground by means of a bolt at the rear end of the SHOE-SLIDE, as shown in the cut, and by the LEADING WHEEL. A wheel at the outer shoe is objectionable because it carries the bar much less steadily than a slide. Being necessarily small it increases, rather than diminishes, friction by dropping into small depressions and dancing over obstructions that would not be made perceptible by the runner, or shoe-slide.



BRASS BUSHINGS ON THE BUCKEYE.

These guarantee long life and smooth, easy running at most important bearings.



The Incomparable Buckeye Bar.

BUCKEYE MOWER BAR.

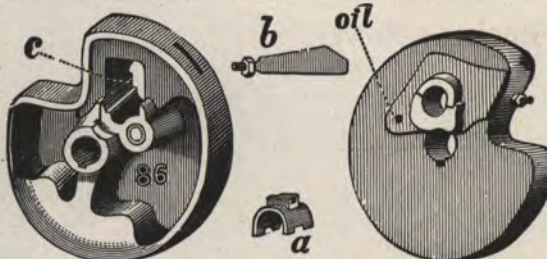
Furnished also with our Combined Reapers and Mowers.

Notice the ADJUSTABLE SPRING at outer shoe for keeping cutters parallel with the surface in high or low stubble. Also, the INEXPENSIVE FRICTION CAPS for keeping knife forward and down upon the cutting edges of grass. Also, the LEADING WHEEL carrying inner end of bar, another GRAND DEVICE invented by Lewis Miller. The BUCKEYE CUTTING APPARATUS never had any serious rivals. The KNIFE-HEEL IS STEEL instead of cheap malleable in common use.



Long Box, Easy Oiling, Perfect Adjustability at this All-Important Bearing.

ADJUSTABLE BOX FOR CRANK-SHAFT.

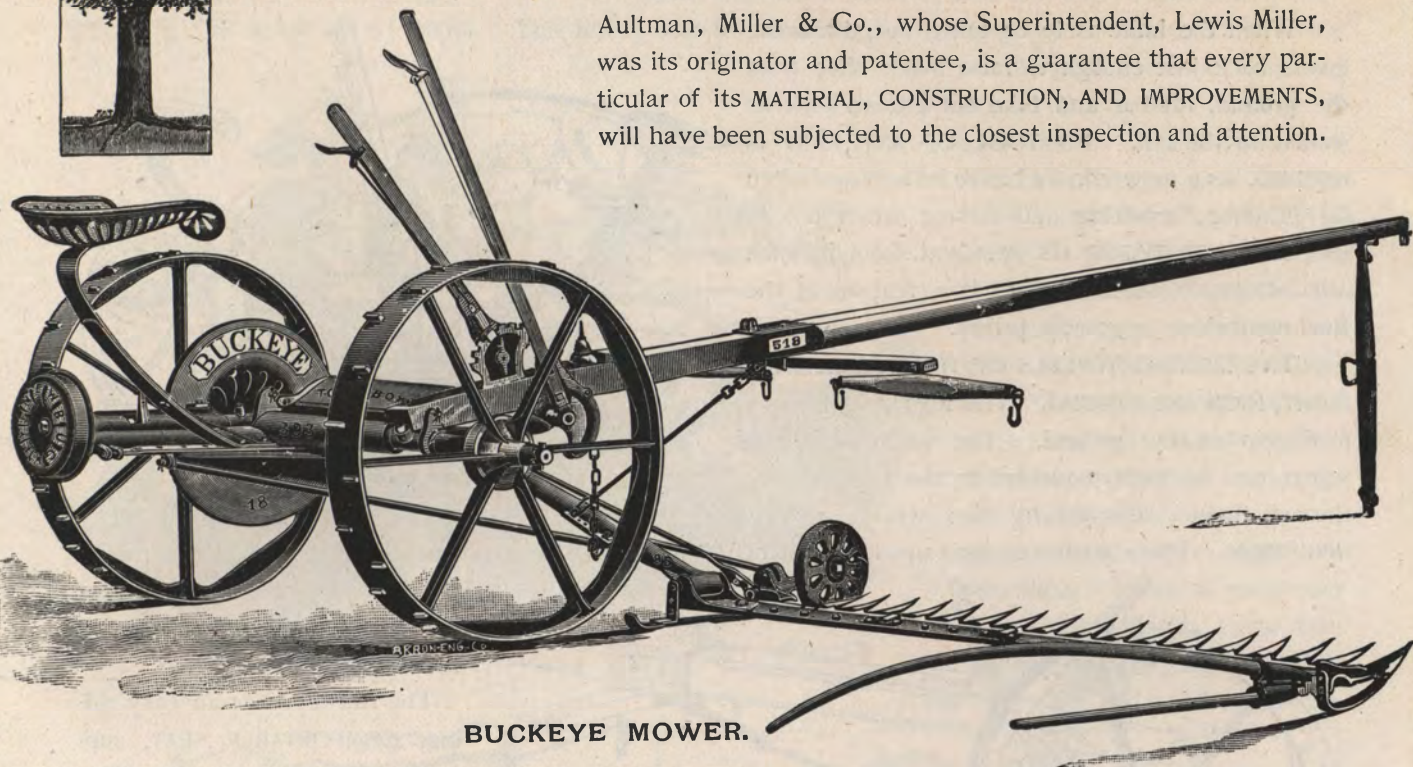


PATENT ADJUSTABLE PITMAN BOX IN CRANK-WHEEL.

THE BUCKEYE DOES NOT WEAR OUT. The wearing parts are adjustable and can, if properly oiled, be kept as good as new for a lifetime.



THE BUCKEYE IS THE HANDSOMEST GRASS-CUTTER EVER PUT INTO THE FIELD. The fact that it is presented to the trade by Aultman, Miller & Co., whose Superintendent, Lewis Miller, was its originator and patentee, is a guarantee that every particular of its MATERIAL, CONSTRUCTION, AND IMPROVEMENTS, will have been subjected to the closest inspection and attention.

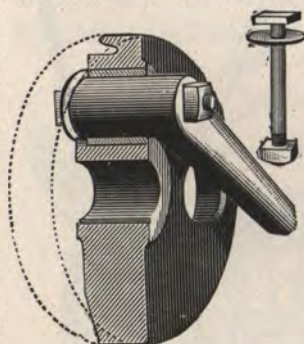


BUCKEYE MOWER.

The immense sale and popularity of the Buckeye, not only with American farmers, but in foreign markets, shows: First, that this mower is superior to all others, in EFFICIENCY, LIGHT-RUNNING AND CONVENIENCE; and second, that it has proven to be the most durable, economical and BEST MADE OF ALL GRASS-CUTTING MACHINES.

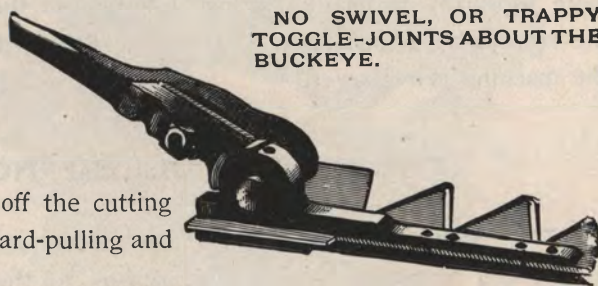
Farmers who strive to make life's labors easy will have taken one sure step in getting the Buckeye. No farmer ever regretted buying a Buckeye Mower or Binder.

THE BUCKEYE DOES GOOD WORK WHERE COMMON MOWERS FAIL, BECAUSE IT IS THE ONLY MOWER WITH A PERFECT SHEAR CUT.



CRANK-WHEEL WITH BRASS BOX.

The double-hooked Pitman holds the Knife down on the cutting edges of the Guards and insures a PERFECT SHEAR CUT. The Knives of ball-joint mowers are easily lifted off the cutting plates, entailing dull edges, hard-pulling and short life.



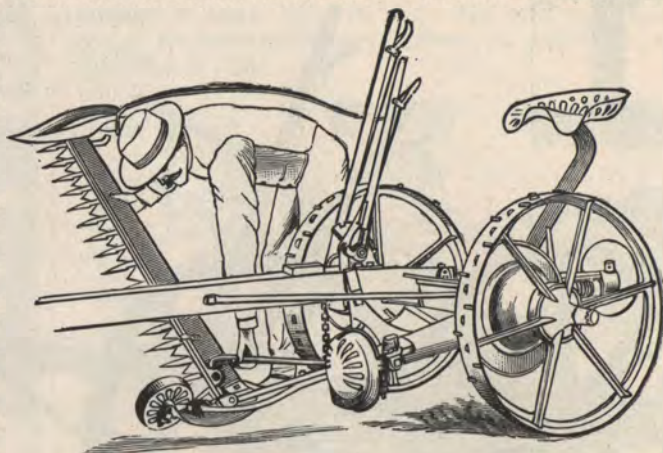
NO SWIVEL, OR TRAPPY TOGGLE-JOINTS ABOUT THE BUCKEYE.

The Buckeye Pitman is double-hooked, in one solid piece, of the best steel, and it is LIGHT, SIMPLE, INDESTRUCTIBLE. Its marked durability is partially due to our long crank-shaft which furnishes a bearing at that most important connection, which is absolutely proof AGAINST ALL QUIVER OR JAR. The crank-wheel is protected by a shield.

SUPERIOR CONVENIENCE OF THE BUCKEYE.

When the knife is to be taken out, throw the levers back just enough to raise inside shoe from the ground, lift bar and take out pitman-hook as shown in the cut. NO TOOL OF ANY KIND IS NEEDED. As a mower knife has to be removed often for grinding, repairing and storing when not in use, this FACILITY FOR ITS REMOVAL from its FIRM AND ACCURATE ADJUSTMENTS is a feature of the Buckeye which is greatly prized.

THE DRIVING WHEELS OF THE BUCKEYE ARE LIGHT, HIGH AND STRONG. The lugs give them a firm grip on the ground. The whole world of Agriculture is deeply indebted to the Buckeye for the advantages afforded by two wheels on Mowing Machines. IT WAS A DISTINCTIVELY BUCKEYE INVENTION. There is no cog gear upon the wheel. Ratchets are so arranged as to give instant action to



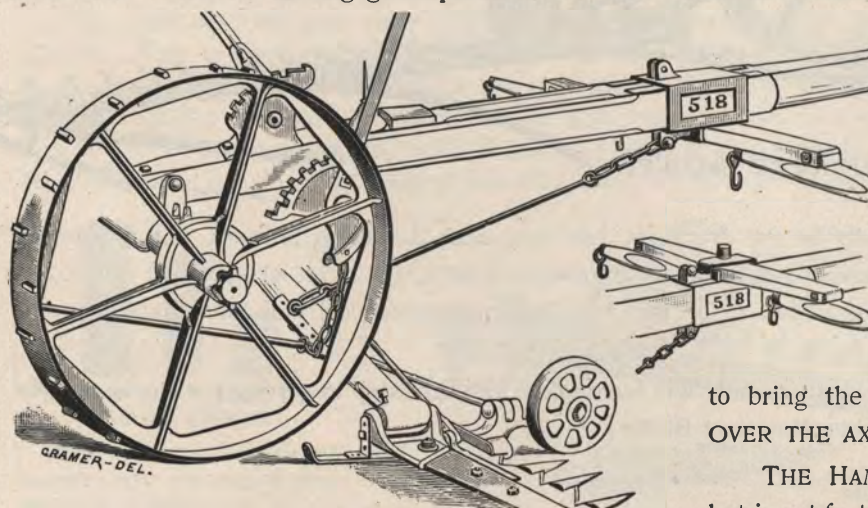
REMOVING THE BUCKEYE KNIFE.

the knife in going forwards, but are always out of gear in moving backwards.

The Buckeye has an easy riding, COMFORTABLE SEAT, supported by a STEEL SPRING. This spring has several key-seats, both at top and bottom, so that whether the driver is heavy or light, his weight may be made

to bring the machine to a PERFECT BALANCE OVER THE AXLE.

THE HAMMER-STRAP slides on the tongue, but is not fastened to the

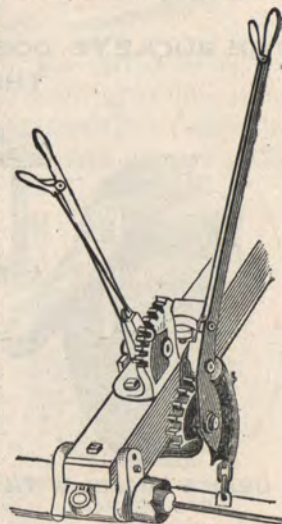


BUCKEYE SLIDING HAMMER STRAP.

tongue. A simple draft-rod connects the strap to the bar. The LINE OF DRAFT, therefore, from the cutters to the hames IS ALMOST A STRAIGHT ONE. The weight, more especially in heavy cutting, is taken off the cutter-bar, and thrown upon the large drive-wheels, thus at the same time reducing the draft and furnishing the machine more power.

THE BAR IS PULLED—NOT PUSHED.

The Buckeye Mower has no more side-draft or neck-weight than a wagon. The farmer may easily satisfy himself as to the correctness of this claim by hitching to the mower, leaving the front end of the tongue outside of and uncontrolled by the neck-yoke, and driving across his meadow. Five minutes of fair comparative trial of this nature ought to outweigh a book full of fine-spun mechanical illustration and assertion.



LEVERS FOR RAISING AND TILTING THE BAR.

Buckeye Lifting Lever.

By means of the Lifting Lever both the coupling and the cutter bars are LIFTED HIGH UP FOR PASSING OVER STUMPS OR LARGE STONES. This lever, and the knuckle-joint, or gag, which renders it effective

for the raising of the bar, constitute part of the inventions of Lewis Miller. It is an indispensable part of every good mower.

THE BUCKEYE TILTING DEVICE IS UNSURPASSED.

In lodged grass it depresses the points of the guards so that even in the worst places ALL IS COMBED UP AND CUT OFF CLEAN, and not a shred left. It also enables the driver to float the bar easily over roughnesses, small stones, tussocks and other slight obstructions. There is no mower made which affords equal conveniences for the perfect handling

of the cutter-bar under all conditions.



BUCKEYE PASSING UNDER TREE.

The Buckeye's folded bar not only renders it a model of portability, but it obviates other serious annoyances, one of which will be seen by a contrast of these two pictures.



A COMMON MOWER PASSING UNDER TREE.

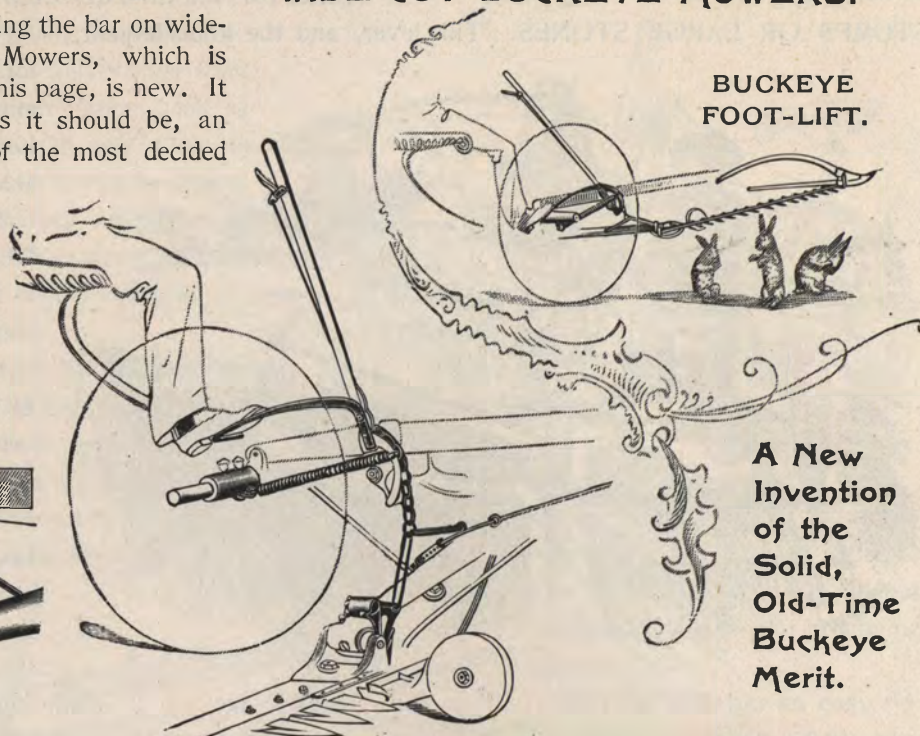


A GRAND DEVICE FOR HANDLING THE CUTTER-BAR ON WIDE-CUT BUCKEYE MOWERS.



THE device for lifting the bar on wide-cut Buckeye Mowers, which is illustrated on this page, is new. It is therefore, as it should be, an improvement of the most decided

character. The lifting-lever and spring remain as heretofore. The chain, instead of being directly attached to the bar, reaches and supports the bar by means of two links, as shown in the cut. The inner link is fastened directly to the bar. The outer link is attached to a rocking-arm to which is pivoted a wedge-shaped fulcrum. When not lifting, this fulcrum is carried loosely on the arm,



BUCKEYE
FOOT-LIFT.

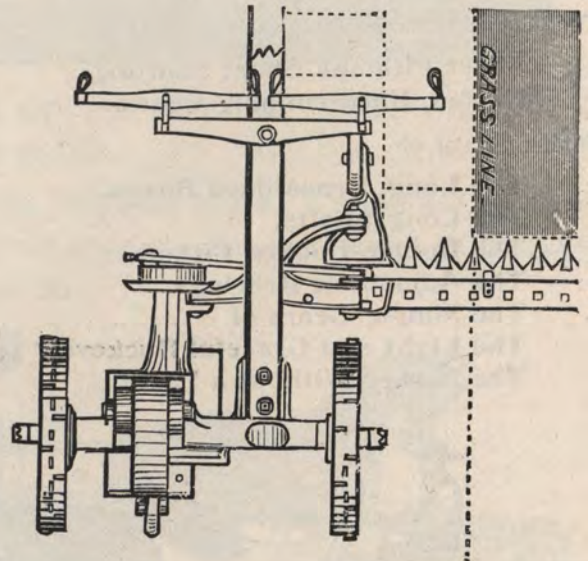
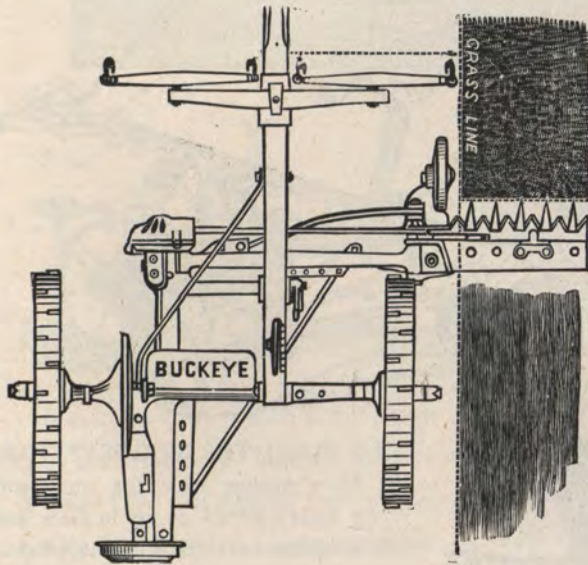
A New
Invention
of the
Solid,
Old-Time
Buckeye
Merit.

and does not in the slightest degree interfere with the free movement of the bar in passing over rough ground. But when the bar is to be lifted this wedge is **instantly pulled into and completely fills the space between the gag and coupling.** It makes no difference at what angle the cutter-bar may be to the machine, the wedge instantly fills the opening between gag and coupling and **there remains immovably fixed** until released by the lifting-lever. The result is that the backward motion of the lifting-lever **takes instant effect in raising the cutter-bar** to its outer end. This occurs, **no matter at what angle the bar may be, or how wide the opening between the gag and coupling-arm.** The weight of the bar being **mainly supported by a spring**, but little effort is required to raise the bar. In case both hands are needed for driving, the bar is also very easily raised **by the foot-lever**, as shown. As pressure on the latter takes **immediate effect in raising the bar**, the range of the lever can be small, and is within **easy scope of the driver's foot** while occupying his seat. The foot-lever and hand-lever move in unison a sufficient distance to raise the bar over ordinary obstructions. The sweep of the hand-lever is the greatest, and it can be depressed to the lowest point, independently of the foot-lever, in case a very high lift is desired. Better work can be done with the Buckeye foot-lever than with any other foot or hand-lever, because, **from the first motion of the foot** the bar commences to rise, while on common mowers the leverage is **always partially, and sometimes wholly, exhausted without doing any raising at all.**

The great advantage of this patented device over every other foot, or hand-lever, must be perfectly obvious. All other hand-levers must be drawn back a considerable distance before the bar is lifted. Space must be left between gag and coupling-bar for the working of the hinge, so that the bar may accommodate itself to the irregularities of the ground. The inner end of their bars must, therefore, be lifted well up so that this space is closed before the lift takes any effect on their outer ends. If the bar is cutting at an angle higher than the mower, **its outer end often cannot be raised at all.** Their foot-levers are even more objectionable. Their range of motion has to be inconveniently large, because **a large share of their sweep is exhausted before any lifting effect is felt on the bar.** In case the bar happens to be raised up somewhat at the outer end when a lift is needed, their foot-lever lifts are practically inoperative and worthless. In folding the bar over on the tongue our foot-lift suffers no derangement whatsoever. While perfectly accomplishing its purpose, **it is SIMPLICITY ITSELF, and adds neither weight nor complication.** The action of our spring is such that its maximum effect is obtained **precisely at the time when the DRAFT WOULD OTHERWISE BE THE HEAVIEST,**



as in a strong, heavy crop. The direct draft is at such times **reduced to the minimum**, while the steady movement and effective operation of the bar, whether cutting **through a strong or light growth**, is perfectly guaranteed. The power of the mower is also increased in the proportion required to do the **larger cutting exacted of a wide-cut bar**. When raising the bar, the support given by the spring permits the bar to be handled with entire ease, by the **use of either the hand or foot**. In short, the Buckeye's Carrying Spring, supplemented by our New Lifting Device, above described, brings the Buckeye much nearer to the point of perfection, as a Wide-Cut Mower, than **has ever before been attained by any machine whatsoever**. The growing preference for wide-cut mowers is naturally due to their larger cutting capacity. A wide cutter, to be successful, necessitates something more than a long cutter-bar. In trying to arrive at this "**something**," which must obviate draft, side-draft, neck-weight, difficulty in manipulating the bar, and at the same time afford the additional power needed, there has been a good deal of experimentation, mostly at the farmer's cost. The New Buckeye Wide-cut Mowers are placed on the market with the confident assurance that **every cause for dissatisfaction has been absolutely suppressed**, and that their performance in the meadow will justify the highest and best expectations. Buckeye Wide-cut Mowers are furnished with bars 5, 6 and 7 feet long.



Observe the point where the line of cut grass crosses the mower-bar on above cuts. Examine other machines in this respect. **THE BUCKEYE'S LONG COUPLING-BAR** ENABLES IT TO CUT A FULL SWATH without the off horse treading down the grass. The inner end of the cutter-bar being well outside of the driving-wheel, the machine cuts its full width, while it is common to see mowers that cut no grass with the inner end of their bars.



ALL BUCKEYES ARE NUMBERED

Every Buckeye Machine, whether Mower, Binder or Reaper, is numbered. The number on each machine is also REGISTERED IN THE FACTORY. Owners of Buckeyes can, therefore, order repairs, giving the number of the piece wanted, and, also, the number on the machine, with perfect assurance that they will get exactly what they want.

Having used great care and costly material in building the Buckeye, the machine is naturally accompanied, on leaving the factory, with the best wishes of its makers. No farmer has ever regretted buying the Buckeye.

The Buckeye Folding Bar

is not IDENTIFIED AT SIGHT, by this most PERFECT FOLDING DEVICE.

WHY IS IT that the BUCKEYE outsells all mowers? It is because it is

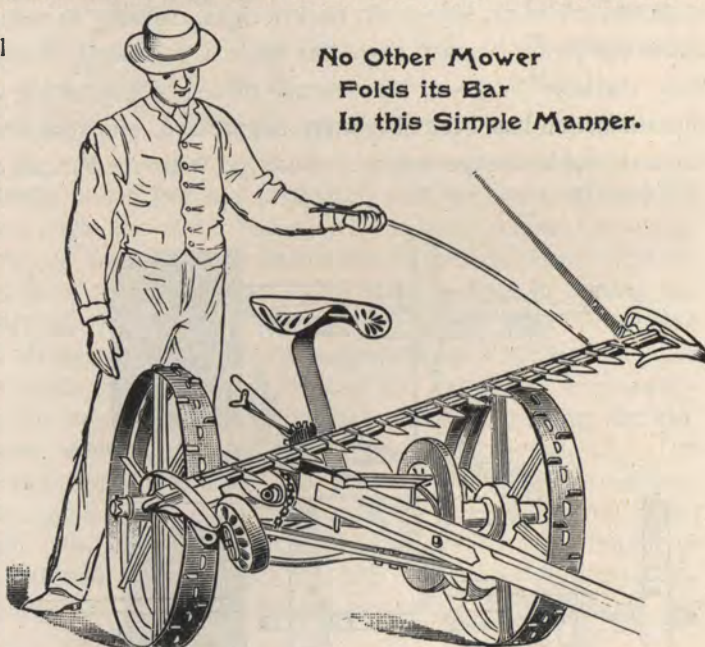
**The Lightest Mower,
The Keenest Cutter,
The Handiest Machine,
The Longest-lived Mower.**

The Farmers have pronounced against

**Short Pitmans, Short Shafting,
Nested, Hard-running Gears,**

And in favor of

**The Long, Brass-lined Boxes,
The Long Shafts,
The Double-Hooked Pitman,
The Adjustable Bearings,
The Simple Gears of
The Light and Graceful Buckeye,
The Mower Without a Peer!**



THE BUCKEYE MOWER ON THE ROAD.

TO FOLD THE BUCKEYE BAR, the driver pushes back the small bolt which holds the track-clearer in place, and then folds the bar over onto the tongue, where a pin, passing through the bar into the tongue, holds it so securely in place that fast driving and rough roads will not displace it. Everything simple, safe, solid and portable as a two-wheeled cart. Unobstructed view. No upright, dangerous, swaying parts.

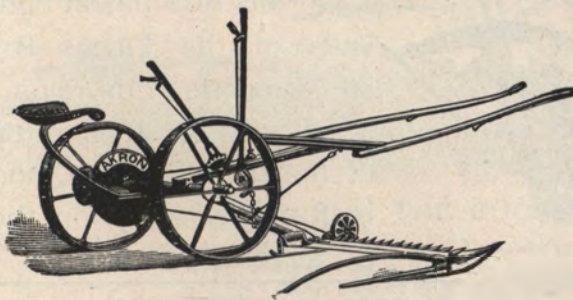
THE BUCKEYE ONE-HORSE MOWER

Is sought after on small farms that keep only a family horse; also for use in cemeteries, lawns, orchards and suburban places. If the horses and men are busy, LET THE BOY OR GIRL TAKE THE PONY



AND DO THE MOWING. THEY WILL DO IT LIKE A TOP.

The One-horse Machine is lighter and more compact, but a genuine Buckeye, MADE FOR GOOD BUSINESS.



It is here shown with a full sized man and horse, to indicate that it is NO TOY MOWER, but can be put to rough, hard work, same as full grown Buckeyes. In fact, it is often put to work in the field along with the two-horse mower, to help out on a long, hard job and WILL DO GOOD WORK WHEREVER USED.



The World's Prize Winner is the Buckeye.

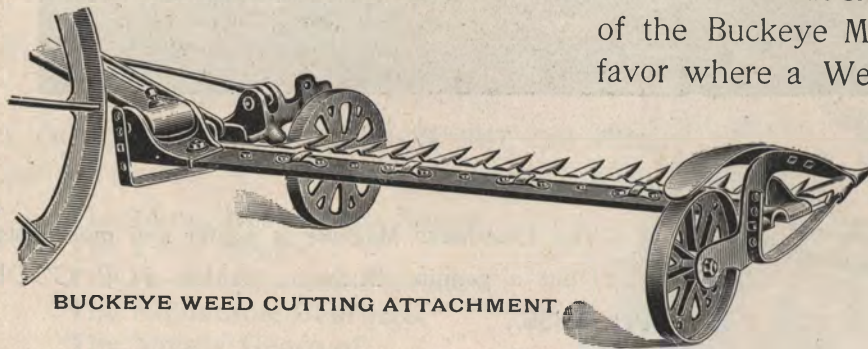
When in doubt, get the
Buckeye and YOU WILL
MAKE NO MISTAKE.

AULTMAN, MILLER & CO.
give prompt attention to all
inquiries. From the splen-
did list of MACHINES and
ATTACHMENTS made by
them, you can make a
selection which is EXACT-
LY ADAPTED TO THE
REQUIREMENTS OF YOUR
CROP.



BUCKEYE WEED CUTTER.

The above cut shows one of the adaptations
of the Buckeye Mower which has won much
favor where a Weed-cutter is needed.



BUCKEYE WEED CUTTING ATTACHMENT.

On this Attachment both
ends of the Finger Bar
are supported on large-
sized wheels. It is often
of the highest utility, and
is furnished only on the
Buckeye.



NEW AMERICAN STYLE.

Statistics show that the most valuable crop raised by the farmer is
not wheat, but hay. More hay is cut by the Buckeye than by any other
instrument made by man. Only the Buckeye bears the royal stamp of
time.



OLD COUNTRY STYLE.



THE Table Rake is an Automatic Side-delivery Reaper, and is built and sold either as a Single Reaper or in combination with the Buckeye Mower. It consists of an ordinary quadrant platform, with a fork on the end of a jointed arm, which sweeps around a vertical axis in the center of the table, so as to allow the fork to follow closely the surface of the platform. The fork, starting into the grain close to the inside shoe, sweeps across the platform in a line parallel to the sickle, gathering and compressing the grain against the outside or circle board, and delivering the gavel in a compact form for binding, and entirely out of the way of the machine on its next round. The fork is entirely independent of the reel.



THE BUCKEYE TABLE RAKE

is made either as a Single Reaper or as a Reaper and Mower Combined. The change of Bars is the work of a few moments. As a Reaper, it delivers the bundles automatically at one side, and out of the way of the machine on the next round.

and is so arranged as to work automatically. It is always under the control of the driver, and can be stopped or started at any point by means of a lever worked by the driver's foot. In thin grain, and at the corners of the field, the bundles can be carried as far as desired before dropping.

The simplicity, the great durability, ease of control and splendid work done by the Buckeye Table Rake, are so widely recognized as to render it unnecessary to dwell upon them here. No reaper has ever succeeded in making so neat a sheaf, and no equal to it in taking up down grain has ever been produced. The Table Rake and Buckeye Mower Combined has long been, and still continues to be, the favorite machine in some of the richest farming districts of the Union.



THE Buckeye Dropper deposits the sheaf in the rear of the machine. The bundles are easily sized by the driver, by means of a foot lever. The cutter-bar being in front, the driver's safety is assured. This brings the slatted platform right under the driver's eye, thus sparing him the straining and tiresome effort required in constantly looking back to ascertain the size of his gavel, while his eye should, in fact, be in front, looking out for obstructions. With farmers who do not raise very large crops the Buckeye Dropper is justly a great favorite, because it is the simplest form of reaper; it is easiest to handle; its work is equal to the best, and it is the least expensive.

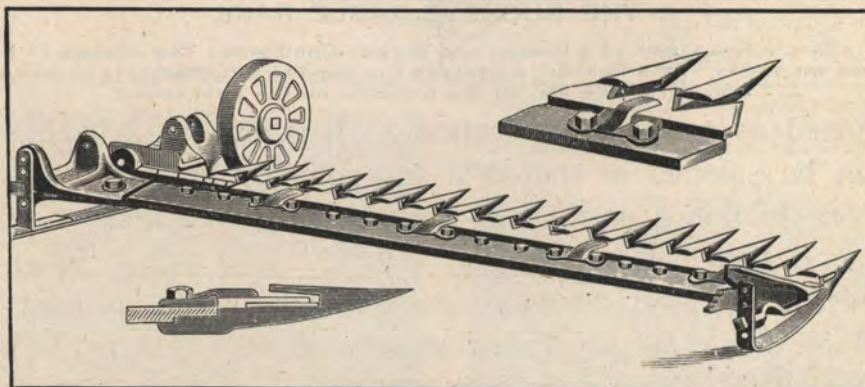


THE BUCKEYE DROPPER

Is at once the Lightest and Simplest form of Harvester. It has two Cutter-Bars, one for Reaping and the other for Mowing.

Our Combined Machines.

We have not hitherto made mention of an important stride in the progress of the mower and reaper industry, which was first made by the inventors and manufacturers of the Buckeye, viz.: the combination into one machine of a good mower and an equally good reaper. Each machine is built as a mower, but is so made that a self-raking attachment or dropping attachment can be added in a few minutes. These attachments can be set to work automatically, and they are under the control of the driver as completely as the mower itself.



To change the Table Rake or Dropper to a Mower, take off the Reaping Attachment and attach the Mower-Bar shown in the above cut. One extra Mowing Knife is furnished with each Buckeye Mower, and with each Combined Machine.

BUCKEYE REPAIRS.



Our manufactory guards the interests of its patrons in respect to possibly needed Repairs with more scrupulous, painstaking effort than Aultman, Miller & Co. Buckeye agencies having a good patronage are now and then surrendered because of the few repairs sold; but it is our inflexible rule that where our machines are sold, there repairs must be kept for the possible needs of the farmers who have bought them. The Buckeye requires few repairs in comparison with the more complicated machines of its competitors; but breaks sometimes occur through no fault of the machine. For these reasons repairs for the Buckeye are kept by all our agents. On the other hand, our customers will save time, trouble and money by making sure to get **Genuine Buckeye Repairs from the Exact Patterns, which are Furnished Only by AULTMAN, MILLER & CO.** Beware of bogus, pretended Buckeye repairs, which are made by schemers who have no interest in preserving the reputation of our machines. Farmers attempting to use these pretended duplicate parts, fraudulently made by the peculators, have seriously injured other parts of their machines. Naturally they are cheap material and badly fitted. The safe way is to get your repairs only from our agent.

PRECAUTIONS.

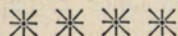
EVERY BUCKEYE IS THOROUGHLY TESTED BEFORE LEAVING THE FACTORY. The machines are speeded high and submitted to severe strains, for they are guaranteed, and if there is any defect, either in material or build, it is best to remedy the defect before the machine is sent out. Undoubtedly this scrupulous inspection in part explains the deeply rooted popularity of our machines. *THE MAKERS OF THE BUCKEYE STAND BY IT, AND IT STANDS BY THEM.

WARRANTY.

Every purchaser of a Buckeye Machine gets the warranty of Aultman, Miller & Co. in these terms:



LIGHTNING flashes are generally pictured as jagged and angular. Instantaneous photography shows that this is a popular error. Our cut is a reproduction. The angles in the course of the electric flash are not sharp, but wide and irregularly curved, like tree branches.



The Buckeye Machine is warranted to be well made, of good material, and, if properly managed, to do good work. The purchaser shall have one day in the harvest field to give it a fair trial, and agrees to see that the machine is properly managed. In case the machine does not do good work, the purchaser is to give written notice, both to the agent from whom he received the machine, and to Aultman, Miller & Co., Akron, Ohio, stating wherein it fails, and shall allow reasonable time to get to it and remedy the defects, if any; and the purchaser shall render necessary and friendly assistance to the person sent to look after the machine, and shall furnish a suitable team for making further test of the machine, and if it cannot be made to do good work, he shall return it to the place where he received it free of charge, in as good condition as when received, excepting natural wear, and a new machine will be given in its place, or the money will be refunded. Continued possession of the machine, or failure to give notice as above, shall be conclusive evidence that the machine fills the warranty, and no one has any authority to change this warranty in any manner whatever.

AULTMAN, MILLER & CO.

CONDENSED TABLE OF SIZES AND CHARACTERISTICS OF BUCKEYE MACHINES.

Buckeye Mower. Light, tubular frame; long shafting; brass boxing; adjustable bearings; simplest gears; double hook pitman and shear cut; direct draft; close cutting; light of draft; handsome in finish; durable. Folding the bar for transport. This mower is built in the following sizes:

Buckeye One-Horse Mower. Built with shafts; 3 feet 9 inch cut.

Buckeye Light Mower. A very light mower for two horses; 4 feet 3 inch cut.

New Buckeye Mower. Standard size; 4 feet 6 inch cut. This size is also built to combine with Table Rake and Dropper.

Buckeye Wide Cut Mower. 5, 6 and 7 feet cut. Same as above in principle, but with the stronger powers required by the greater width of cut; Carrying-Spring and Foot-Lift for easy raising of bar.

Buckeye Frameless Binder. 5, 6 and 7 feet cut. No heavy frame-work; perfect simplicity and reliability; no sectors; no loose-ended axles. No possible twisting of bearings or gears; unapproached portability over soft ground; chain drive; only one gear; cuts through two guards; best reel, no posts, no chains; wide range of adaptability; easiest managed, easiest on team, best work; excellent bundle carrier; handy truck.

Buckeye Banner Binder. Dispenses with elevator canvases; open end platform; low; light; a favorite over every binder in hilly farming; very light draft; clean cutting and saving; ready for large and long work in any crop; positive separation; bundle carrier equal to the best; best and simplest reel; handy truck.

Buckeye Table Rake. 4 feet 6 inches in grass; 5 feet 2 inches in grain; delivers sheaves at side; makes any sized sheaf; makes best-shaped sheaf; no superior in down grain.

Buckeye Dropper. 4 feet 6 inches in grass; 5 feet 2 inches in grain; simplest reaper; delivers sheaves in rear.

Buckeye Twines. Pure Manilla; pure Sisal; Buckeye Mixed twines. We make our own twine and guarantee it.

Buckeye Attachments. Buckeye trucks for all sizes of all Buckeye Binders; Buckeye Bundle Carriers for all Buckeye Binders; Buckeye Flax and Clover Dump; Header Attachment; Weed Cutting Attachment.

Repairs. Complete stocks of repairs for Buckeye Machines are kept on hand by our branch houses and principal agencies, and are thus made quickly available to purchasers of our machines in all parts of the country.



This stack of 35,000 wheat sacks was erected by a grain buying firm at Caltowie, South Australia. Storage facilities in that country are limited, and the plan shown in our illustration is in common use.

In order to be prepared for the prompt distribution of Buckeye Machines and Repairs to their patrons everywhere, Aultman, Miller & Co. keep full supplies of their goods at their following

BRANCH HOUSES IN THE UNITED STATES:

AULTMAN, MILLER & CO.....DALLAS, TEXAS.
 AULTMAN, MILLER & CO.....KANSAS CITY, MO.
 WM. KOENIG & CO.....ST. LOUIS, MO.
 AULTMAN, MILLER & CO.....WICHITA, KAS.
 AULTMAN, MILLER & CO.....DENVER, COLO.
 TRUMAN, HOOKER & CO....SAN FRANCISCO, CAL.
 AULTMAN, MILLER & CO....COUNCIL BLUFFS, IA.
 AULTMAN, MILLER & CO....MINNEAPOLIS, MINN.
 AULTMAN, MILLER & CO.....DES MOINES, IA.

AULTMAN, MILLER & CO.....CEDAR FALLS, IA.
 AULTMAN, MILLER & CO.....CHICAGO, ILL.
 AULTMAN, MILLER & CO.....INDIANAPOLIS, IND.
 AULTMAN, MILLER & CO.....CINCINNATI, O.
 BUCKEYE MACHINE CO.....LANSING, MICH.
 AULTMAN, MILLER & CO.....ROCHESTER, N. Y.
 AULTMAN, MILLER & CO.....BALTIMORE, MD.
 AULTMAN, MILLER & CO., }
 (Eastern Export House), 18 Warren St., } NEW YORK.

Persons in want of Machines or Repairs, or Agencies for Machines, can apply to either of the above houses, or to Aultman, Miller & Co., Akron, Ohio.



COLUMBUS BEFORE FERDINAND AND ISABELLA.



COLUMBUS FIXING HIS SHIP'S COURSE.



COLUMBUS IN CHAINS.

FIVE EPOCHS IN THE LIFE OF COLUMBUS.

-1492-



THE MOMENT OF TRIUMPH.



LANDING OF COLUMBUS.



BUCKEYE