

ADRIANCE AND BUCKEYE

HARVESTING

MACHINERY.



"All national wealth depends upon
an enlightened agriculture."

Webster.

ADRIANCE, PLATT & Co.,

NEW YORK OFFICE,
165 GREENWICH ST.

POUGHKEEPSIE, NEW YORK, U.S.A.



"BUCKEYE"
(TRADE MARK.)

TRADE MARK
ADRIANCE

"TRIUMPH"
(TRADE MARK)

HARVESTING MACHINERY.

ADRIANCE, PLATT & CO.,

POUGHKEEPSIE, NEW YORK, U. S. A.

CABLE ADDRESS: "ADRIANCE, NEW YORK."

GENERAL AGENCIES.

ADRIANCE, PLATT & CO., **ADRIANCE, PLATT & CO.,**
HAMBURG, GERMANY. **PARIS, FRANCE.**

ADRIANCE, PLATT & CO., NEW YORK,

AND

BANGOR, ME.	ROCHESTER, N. Y.
PORTLAND, ME.	ELMIRA, N. Y.
CONCORD, N. H.	TRENTON, N. J.
BOSTON, MASS.	HARRISBURG, PA.
NEW HAVEN, CONN.	PITTSBURG, PA.
SCHENECTADY, N. Y.	LANSING, MICH.
WEEDSPORT, N. Y.	CHICAGO, ILLS.

ALSO

MANSUR & TEBBETTS IMPLEMENT CO.,	ST. LOUIS, MO.
DEERE, WELLS & CO.,	COUNCIL BLUFFS, IOWA.
THE SPENCER & LEHMAN CO.,	DECATUR, ILL.
DEAN & CO.,	MINNEAPOLIS, MINN.
BAKER & HAMILTON,	SAN FRANCISCO, CAL.
	SACRAMENTO, CAL.
	LOS ANGELES, CAL.
CHAS. H. DODD & CO.,	PORTLAND, OREGON.

ADRIANCE PLATT & CO.

POUGHKEEPSIE, N. Y., U. S. A.,

January 1st, 1897.

For the season of **1897** we issue our **Fortieth** annual catalogue, and with the close of the season will have completed four decades of years devoted to the manufacture and sale of Harvesting Machinery exclusively.

Such a marked period of time naturally suggests review of the past. These years include the entire period of the commercial success of the Mower; **our Buckeye** having been "the **pioneer** in the path of the great improvements which have popularized mowing machines." Very few indeed of those who started in the race with us remain to-day as active competitors.

We think we may take an **honorable pride in our record**, and in the fact that our work in the development of Harvesting Machinery has been of such **incalculable value to our Country**, in stimulating and making possible its gigantic progress in the development of that "enlightened agriculture," on which Webster declared, "all National wealth depends."

The **secret of our success** may be found in some of the very early catalogues issued by us, which we quote:

"Believing that the best way to secure the patronage and support of the farmer was to **deserve it**"; and "thoroughly aware of the importance of good mechanism in the construction of a machine which has to undergo as hard usage as a Mower, we will spare no pains to produce a machine which in excellence of workmanship and material shall be unequalled." We have persistently followed these convictions with a result highly gratifying to ourselves and our patrons.

From the first, the increase each year, in the number of our sales for the first decade, was **greater and greater**. For the second decade it was **more than double** the first, for the third **fifty per cent** greater than the second and for the fourth decade will show an increase of above **thirty-five per cent** over the third. Now that our sales are counted by **hundreds of thousands**, and for many years there has been no increase in the territory where we offer our machines for sale, these figures are convincing that we have **attained our ambition**, and have **fairly earned** the success we have achieved, as symbolized on our front cover.

On our back cover is depicted the location of our Manufactory near the mouth of the magnificent Hudson, the great gateway of the Continent for foreign trade.

We tender our sincere thanks to the World of farmers who have appreciated and sustained our efforts, and renew to them our promises of the **best machines constructed in the best manner**.

ADRIANCE, PLATT & CO.

MOWERS & HARVESTERS.

ADRIANCE PLATT & CO.

What is Best? Most Economical?

That which renders the most efficient use for the longest time at the least expense—is the **Best**—and the most **Economical**.

In mowers it is the **Adriance Buckeye**.

How may you know?

This is established by its history. In the report by the Judges of the greatest **National Field Trial** ever held in the United States we find, referring to our Buckeye, "For several years past every new mowing contrivance has gravitated more and more toward the Buckeye principles until all the machines are grouped around this central type."

They keep it up.

That the **appropriation** by others, of **Buckeye** features has not yet ceased is apparent from a comparison of present mowers with those of the same manufacturers of only a few years back, and even more forcibly by considering the following special features, every one of which was **originally introduced** on the **Adriance Buckeye**, which was the

What a list this is.

First mower with

Two Driving Wheels, both free from gearing.

Double-Jointed Finger-Bar and a Lever for handling it.

Cutter-Bar in front of driver's seat.

Malleable Steel-lined Guard.

Fully folding Cutting Apparatus.

Driving Pawls and Ratchets.

Independent action of either Driving Wheel.

Leading Wheel, adjustable on the inside shoe.

We have never abandoned one of these essential features.

You can tell.

Are there **any** successful mowers to-day which have not copied nearly, if not every one of the **features we introduced**?

Not all "Ancient History."

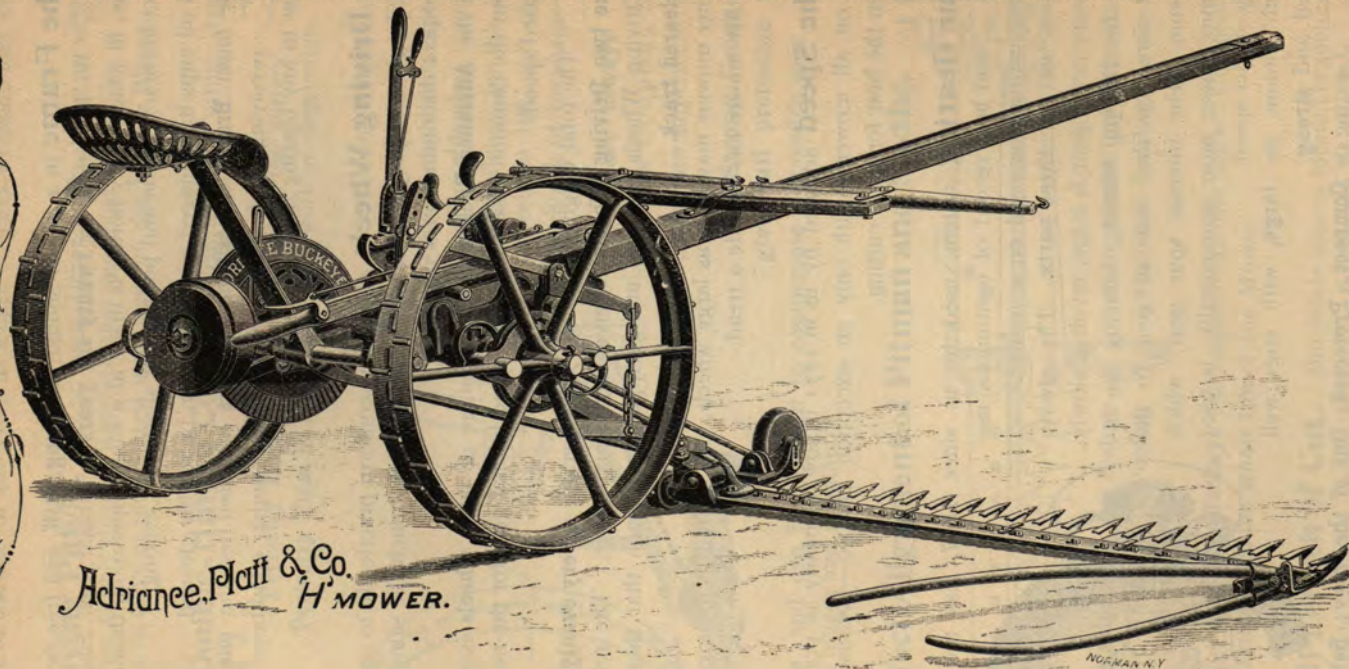
Having started in the race for supremacy with a long lead, our early attained reputation for excellence has been maintained by us and never equalled.

"Extras" have a history.

Our continuous progress in one direction, while others have **changed repeatedly** their entire machines, makes a great difference in regard to getting proper Extras for worn machines.

MOWERS & HARVESTERS

ADRIANCE PLATT & CO.



Adriance Platt & Co.
H. MOWER.

ADRIANCE BUCKEYE MOWER.

MOWERS & HARVESTERS

The Adriance Buckeye Mower.

The Frame in a mower should be **strong, stiff**, and free from bolts.

A long time.

We have used for **twenty-six years** a Tubular, cast, Single Piece Frame, in which every boring is made at a single operation, thus attaining perfect accuracy in line and position for shafts and gearing.

All oil cups have hinged covers and can be readily cleaned.

The finest **Brass Composition Bushings** are used for the **one** rapidly

Not a Bicycle.

revolving shaft. Mowers are used under conditions quickly ruinous to any bearing not the most substantial.

In **Driving Wheels** all mowers conform practically to one standard. In **general proportions** mowers **appear** very much the same, but in this respect discrimination is necessary.

On the **Adriance Buckeye** the advantage of **large wheels** is obtained without the common disadvantage of an additional gear for the necessarily increased speed.

To think about.

The total weight of machine and operator is **very evenly divided on the two Driving Wheels** to give each equal power. The relation of the Driving Wheels to the Cutting Apparatus is such that they **run in the cleared track**.

Other mowers may have as large wheels, and yet fail in these essentials. No other mower has as wide a tread.

The Speed adopted by us in 1871 is now, as nearly as practicable, used on all mowers—with only an exception or two—because it has proven the best for grass cutting.

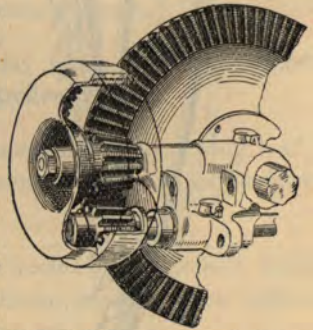
Our Gearing system, used by us since 1857, has the **longest**

The Test of Time.

and **best** record of continuous use of any gearing ever used on a mower.

There are but **three parts**. The always necessary bevel gear is large, revolves slowly with the Driving Wheels, reducing the indirect force on that style of gear to the minimum. The internal spur gear, which transmits power most economically, is used for the higher speed.

Both pinions are **large**, with cogs well formed and **strong**.



Location is right.

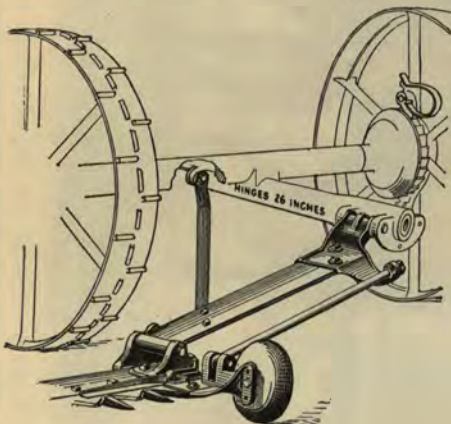
Gearing is **Compact; Protected; Out of the Way; Behind the Axle**, assisting in balance; **Close to left Driving Wheel**, helping to equalize it in power.

Shafting is of cold rolled **Steel** and fully covered. The **Crank Shaft** extends to the rear of the axle; its length obviates vibration and wear.

Driving Pawls, two on each Driving Wheel, are so adjusted to two large, closely divided Ratchets, that one must always be in position to drive at the slightest movement of the Driving Wheels. **No lost motion.**

A Double-Hinged Coupling carries the Cutting Apparatus so that it is

Perfectly Pliant and free to follow the surface. **You mow on Uneven Ground and meet Obstructions.**
Perfectly Firm to resist strain from work or obstruction.



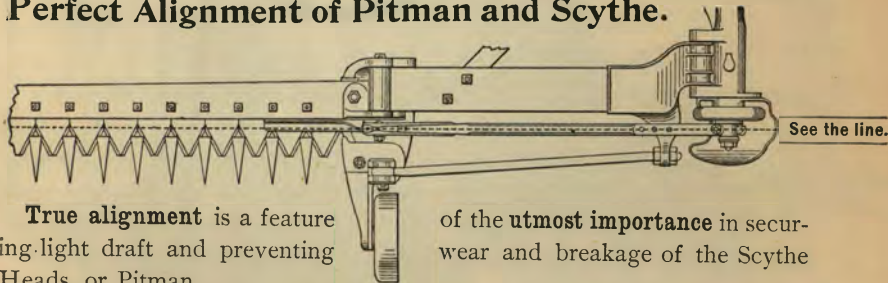
Should the Finger-Bar strike a fixed object the **diagonal** rear brace diverts the shock largely **sidewise**, minimizing any tendency for the Driving Wheels to **lift**, and obviating much risk of breakage.

We have **always** **Evidently Good.**
used this Coupling System;
others now imperfectly copy it.

The Strong Front Brace
gives full protection to the

Pitman, and can be adjusted to compensate for possible wear **And more.**
on the hinges and maintain a

Perfect Alignment of Pitman and Scythe.



True alignment is a feature
ing light draft and preventing
Heads, or Pitman.

of the **utmost importance** in secur-
wear and breakage of the Scythe

On the **Adriance Buckeye** you can maintain the perfect alignment, with
its advantages, for the **whole life** of the Mower.

It's a long time, too.

Full Length of Cut. Our inside shoe is located in such relation
to the pole that we secure a cut the **full length of the Bar**,
yet ample room is given for the off horse, and the machine is
free from side draft.

It tells on a Day's Work.

MOWERS & HARVESTERS

6



ADRIANCE, PLATT & CO.

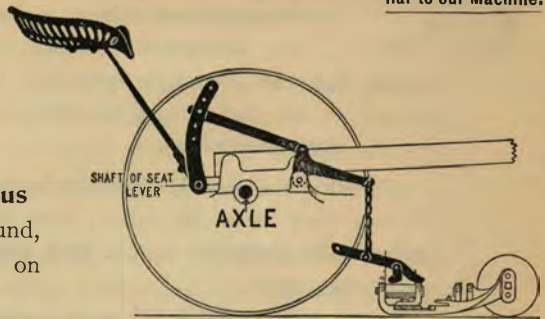
THE ADRIANCE BUCKEYE TURNING A CORNER—FINGER BAR LIFTED BY THE FOOT.
THE AUTOMATIC BALANCE RENDERS IT A VERY EASY OPERATION, FOR EITHER HAND OR FOOT.

Our Automatic Balance is equivalent to a lever

Patented and peculiar to our Machine.

whereby the weight of the driver, in the rear of the axle, is applied to balance weight in front of the axle.

The effects are to
carry the cutting apparatus
free of friction on the ground,
Lessen Draft, and to place on
the Driving Wheels and



utilize for power every pound of weight

See what it does.

of driver, seat, frame, gearing, etc., and of the pole and cutting apparatus, not required to keep the pole steady and the cutters down to their work.

The device can be adjusted in a moment for a driver of any weight, and **a lift of desired amount placed on the cutting apparatus.**

The entire Bar is carried. A gag-lever carried by the lifting chain bears down on the inner side of the shoe-hinge, and exerts a lifting force on **Bar** outside the hinge.

It goes to the end.

This offsets any tendency of the bar to sag in the middle and maintains a **true line for the scythe.** The lift on the outer end of bar is so proportioned as not to interfere with the **closest cutting through hollows and ditches.**

Should the driver leave his seat the weight he has balanced falls on the ground, not on the team.

Don't forget it.

No system devised by others in the attempt to accomplish the functions of our Automatic Balance have done so. They all place a portion of the weight on the team and it's **always there** while the team is attached.

They can't do it.

The Most Powerful, Steadiest Cutter. The power which operates the scythe, on any mower, **is all derived from the driving wheels;** its **amount** depends upon the weight placed upon them; its **effective use** upon the methods of transmission, and the quality of the workmanship.

A matter of examination and comparison.

Carrying upon the driving wheels a **greater proportion of the total weight,**

the Adriance Buckeye is the most powerful Mower made.

This power we **utilize to the fullest extent** by scientifically designed gearing and cutting parts.

In quality of workmanship we challenge comparison.

Adequate provision of power, its mechanical application, with our wide truck, secure the **stadiest running machine.**

Operating Levers. Our Lifting Levers are novel, and operated

**So very Easy.
There is a Reason.**

with **exceptional ease** by either hand or foot.

The **Automatic Balance**

assists, and the operator's force is exerted in the direction of his seat, thus his **power is doubled**.

Ordinarily the hand lever stands upright a "long reach" from the driver; ours rests **horizontally alongside** within **easy reach** of his right hand.

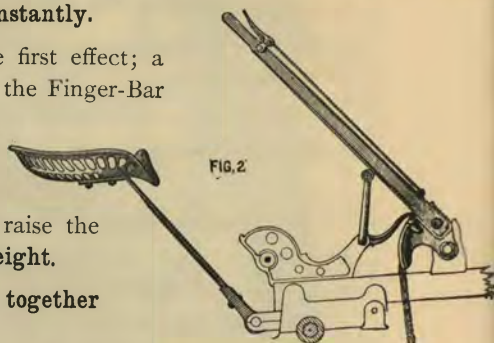
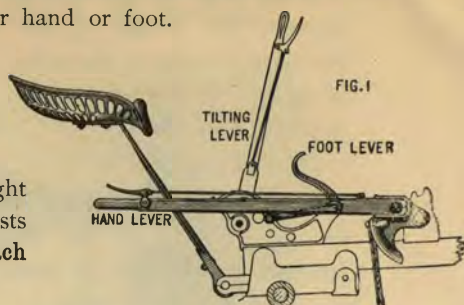
Our foot lever stands upright **close to** the driver's right foot, where he can press it **instantly**.

**You want to Use
them Quickly.
Take your Choice.**

Either lever has the same first effect; a touch on the **foot lever** raises the Finger-Bar

enough **for all ordinary purposes**, and at the same time raises the **hand lever** to the most **convenient possible position** for the driver to push it forward and raise the cutting apparatus to the **greatest height**.

Foot and Hand Lever may be used **together** or **separately**.



**These are "handy"
too.**

The **Gear Shifting Lever** is conveniently placed, to be operated **by either the hand or foot** of the driver.

The scythe can be **instantly stopped or started**.

The **Tilting Lever**, located close to the driver's right hand, is quickly operated to throw the points of the Guard Fingers up or down, and lock them in any desired position.

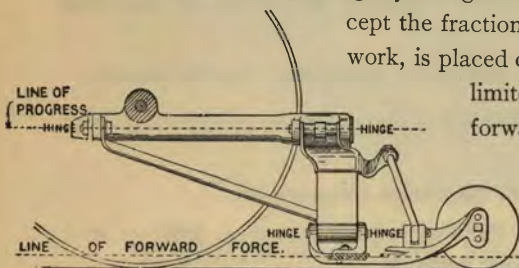
Self-Adapting Finger-Bar. We have already referred to our original introduction of this feature by our Double-hinged Coupling, now imperfectly copied by nearly every manufacturer.

We do not stop.

Our Patented Automatic Balance was another advance, and we now **carry our entire Cutting Apparatus**,

even to the outer end, lightly alongside the machine. All the weight except the fraction desirable to keep the bar to its work, is placed on the Driving Wheels. The very

limited force required to move the bar forward we apply **directly in line of desired movement**, and **low down** to secure the full benefit of the leading wheel in surmounting obstacles.



Hung so flexibly, with downward pressure impossible, forward force applied in proper line, and carried so lightly over the ground, our Cutting Apparatus is

Smooth Cutting
assured.

Absolutely free to adapt itself to all variations of the surface.

Our perfectly independent action for the Finger-Bar can not be attained on mowers drawn from the Finger-Bar connections, or with drooping frames, or with push bars hinged about the axle or above the plane of the bar.

Direct Draft. In operating a mower all the power for moving the gearing and scythe, and for cutting, comes from the driving wheels. The major resistance to be overcome is at the point of their impact with the ground. The power is obtained by rolling the driving wheels, which must be done through the axle. We therefore draw directly from the axle.

Have you thought
of it?

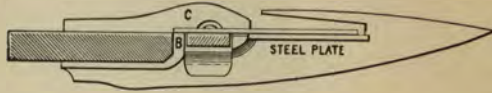
Manufacturers in advertising mowers having draft attachment to, or near, the cutting apparatus, convey the impression that at the cutting apparatus is the point of greatest resistance and that such draft is "direct." On the contrary, 'tis most indirect.

Not true "by a large
majority."

Our method of applying draft to the machine and carrying the cutting apparatus thereon is the right method.

No doubt about it.

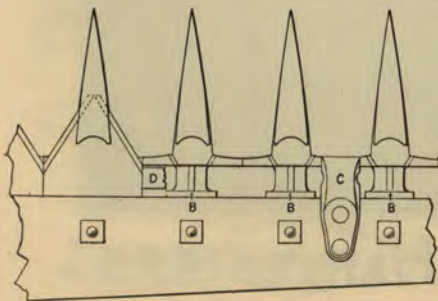
Perfect Shear Cut. The Malleable Iron, Steel Plate, Guard Finger we were the first to introduce and have used since 1859. Nearly every manufacturer now uses it, which is sufficient testimony as to its merit.



Superiority proven.

These Guard Fingers, as still used by us, are provided with oil tempered plates carefully ground to an accurate bevel, and the finished Guard Fingers are formed to an exact gauge; have a firm bearing against the planed edge of the Bar, and, braced by the side projections (see cut below), are held securely in accurate line by one carefully fitted bolt.

On the carefully aligned ledger plates the scythe rests perfectly flat, producing a perfect shear cut. The section is supported at its rearward edge



by a shoulder of the Guard Finger (marked B in cut), which with the malleable arched buttons C, bearing on top of the section more forward, retains it in the cutting position.

The Cap can be adjusted without removing; its arch is kept clear by projecting rivet heads on the scythe.

MOWERS & HARVESTERS



ADRIANCE PLATT & CO.

HAYING SCENE WITH ADRIANCE BUCKEYE MOWERS, ON THE BORDEN HOME FARM,
WALLKILL VALLEY, NEW YORK.

The light steel scythe rod D, passes through a channel in the Guard Fingers, having a bearing on its back edge only.

Clearance for escape of gum and grit is provided for, both **under the scythe rod** and back of it **between the shoulders of the fingers**.

Of no little consequence.

Worn fingers are very easily replaced.

The farmer can always line up the scythe
by inserting new fingers at necessary points.

For over thirty years we have made our own Mower sections.

Bear this in mind.

On no **one** thing is the success of a mower so dependent, and we have the **strongest incentive** to make the **best section without regard to cost**. A very large number of manufacturers **buy** their sections from one concern which has no interest in the mower.

Pitman Rod and Crank=Wheel. The length of the Pitman, and the **direction of rotation** of the Crank=Wheel, have important relations to the **economical transmission of power** for cutting, and to the wearing and **breaking** of scythe heads.

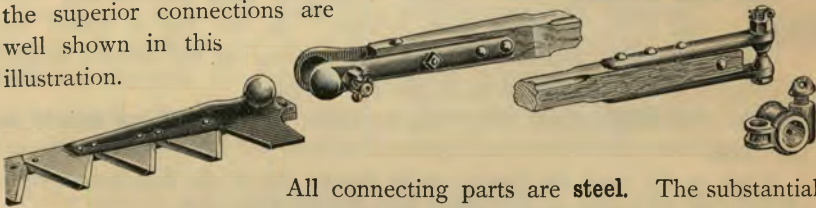
Important, but not often considered.

Our long Pitman reduces the angle of action to the minimum; and the direction of crank revolution makes the Pitman at its **greatest angle, tend to press the scythe down** to the cutting edges. On the return stroke, the Pitman is at its lowest point, and the lifting tendency on the scythe is as slight as possible.

Our Pitman Connections. As the Pitman transmits the motion and power from the gearing to the scythe, and moves at a very high speed, it is of the greatest importance that it should have not only the perfect alignment described on page 5, but should have also the most **secure and durable connections**.

They must be good.
Ours are very good.

Our rod of **choice second growth hickory** is exceptionally long and the superior connections are well shown in this illustration.



All connecting parts are **steel**. The substantial crank-box is **tough brass composition**. The angle of cone projections and sockets is carefully designed and **tooled to an accurate fit**. The concave jaws are as accurately fitted to the ball of the scythe head. Such wear as may occur **can be taken up** and a close fit maintained by means of the lock nut bolts.

Nothing else on a Mower is of equal importance to a good pitman. Our pitman is the **best that can be made**.

The Leading Wheel, one of our old-time features, has in our

But a good thing yet. modern machines lost its carrying function, but it is still **important.** It is so **carefully adjusted in position** relative to the points of the guard fingers, that it guides them through hollows and over ridges without catching.

Height of Cut is quickly adjusted at the leading wheel and at the outer shoe. It can also be varied, while in motion, by the Tilting Lever.

No Patent on a Wheel.

Our steel runner at the outer shoe is more durable than a wheel at that place, and carries the bar more **steadily and easily.**

Light Draft is the result of the nearest approach to **perfection in plan and development.** We will not summarize the description

Have we not shown it?

of our Machine, the excellence of which in **every** respect results in the **lightest draft attained on any mower.**



On the Road. The Cutting Apparatus **folds horizontally** over

Like Light Draft good for the team.

the Pole, where it rests securely. As the Bar is folded our Automatic Balance increases the leverage of the driver's weight, to balance the Bar and prevent weight on the pole.

Ours is the **only** mower which can be folded **without adding weight on the team.**

When on the road, the Pawls can be thrown out of the Ratchets, saving all wear on the bearings used when the machine is at work.

Material and Workmanship. All stock is selected and tested with care. Cold, or hot rolled iron or steel, malleable, or grey iron, or wood, are each used **where they are the best material for the purpose.**

Just Examine.

We have **always** maintained the best reputation for workmanship and **challenge comparison.**



Adriance Buckeye Mower, Size C.

FOR ONE HORSE.

This machine is so like our two-horse **Adriance Buckeye** Mower that it is practically covered by the foregoing description.

It **has the foot and hand levers** working together or independently, and the entire cutting apparatus is carried in the same way, except that the machine being lighter, the weight of the driver balances the machine and bar without the power increasing levers.

This Mower is made **entirely from patterns specially designed for a small machine** and is so proportioned as to secure all **necessary strength** for the **heaviest work** without danger of breakage.

Not a Two-Horse
with Short Bar.

Our size C gives better satisfaction than any other **One-Horse Mower**, and its popularity and the number we manufacture steadily increases.

Many farmers find it **convenient and profitable** to own **two One-Horse Mowers** in preference to **one larger machine**; particularly where the amount of work to be done is large, but on rough or obstructed ground, where team and a **very long bar Mower** makes less **satisfactory work**, and are **more troublesome to manage and operate**.

Did this ever occur
to you?

The "C" Mower is also used on many lawns too large for hand mowers, and will leave a clean, neat stubble, even in short grass.

This page seems at first glance a digression from our subject, but is as truly descriptive of our **Machines** as are the balance of our pages.

"Between the Lines"

is a **Photographic Copy** of a Postal-Card order for an "extra part for repair" with our "checks" showing that the order was **promptly filled**.

H. W. GORDINIER,
SEEDS,
Agricultural Implements,
GRAIN, HAY and FEED,
357 & 359 River St.

Troy, N. Y.

July 24 1896.

Dear Sir:

Please find by first express

1 No 84 for mowers bought

29 years ago 25/252

A.O.V.C.



Yours truly,

H. W. GORDINIER.

"Between the Lines"

you read not what we say about our machines, but

What our machines say about us

and about themselves.

They tell of "**Honest-made Machines**" and durability and good long service.

29 years and still in use.

Such an order to us is not an exception; we are constantly receiving them, and we fill them too, and promptly.

The House sending the above order has sold our **Machines** about 35 years.

There is food for thought in these facts. It is not what we say alone, but what our works say for us.



HARVESTING WHEAT IN CALIFORNIA—A COMBINED HARVESTER, HORSE POWER.

Weight, 12000 lbs.; width of cut, 18 to 24 ft.; crew, 4 to 5 men; team, 26 to 32 horses; cuts, threshes, cleans and bags 25 to 45 acres per day. A season's run from 3000 to 3900 acres. No rain falls during Harvest season. (See inside back cover.)

What constitutes the **Best** and most **Economical** is the same in Binders as in Mowers.

Again the **Adriance** Machine fulfills the requirements.

History again.

Our **Adriance Binder** has not as long a history as our Mower, but it is a history of as **great success**. When introduced it was as great a departure from established types and **stood alone against the experience of all other manufacturers** who had for years eagerly but vainly sought such a machine.

It withstood the influence of every representative of all other binders by successfully meeting the most severe tests the farmer could give it.

It Won its Way

the **World over**, winning numerous **Honors** from its introduction; including many **Grand National Prizes**. An unbroken record. It won highest award at

every European State Binder Trial for the last three years.

Trials under **Government auspices** and supervision of **Government Officers** and Committees, giving absolute assurance that it **won on Merit.**

The Special Features of the Adriance Binder.

Simplicity: Lightness: Slow Movement of Working Parts:

Well Proportioned, Well Balanced, and Elegant Appearance:

Peculiar and Limited Elevation of the Grain:

Novel Rear Discharge of the Bundle:

Perfect Separation: Gentle Handling of Grain: Clean Delivery:

Great Capacity and Range of Work:

Adaptability for Side Hills:

Economy of Power: Economy of Twine:

Light Draft:

Durability:

Portability.

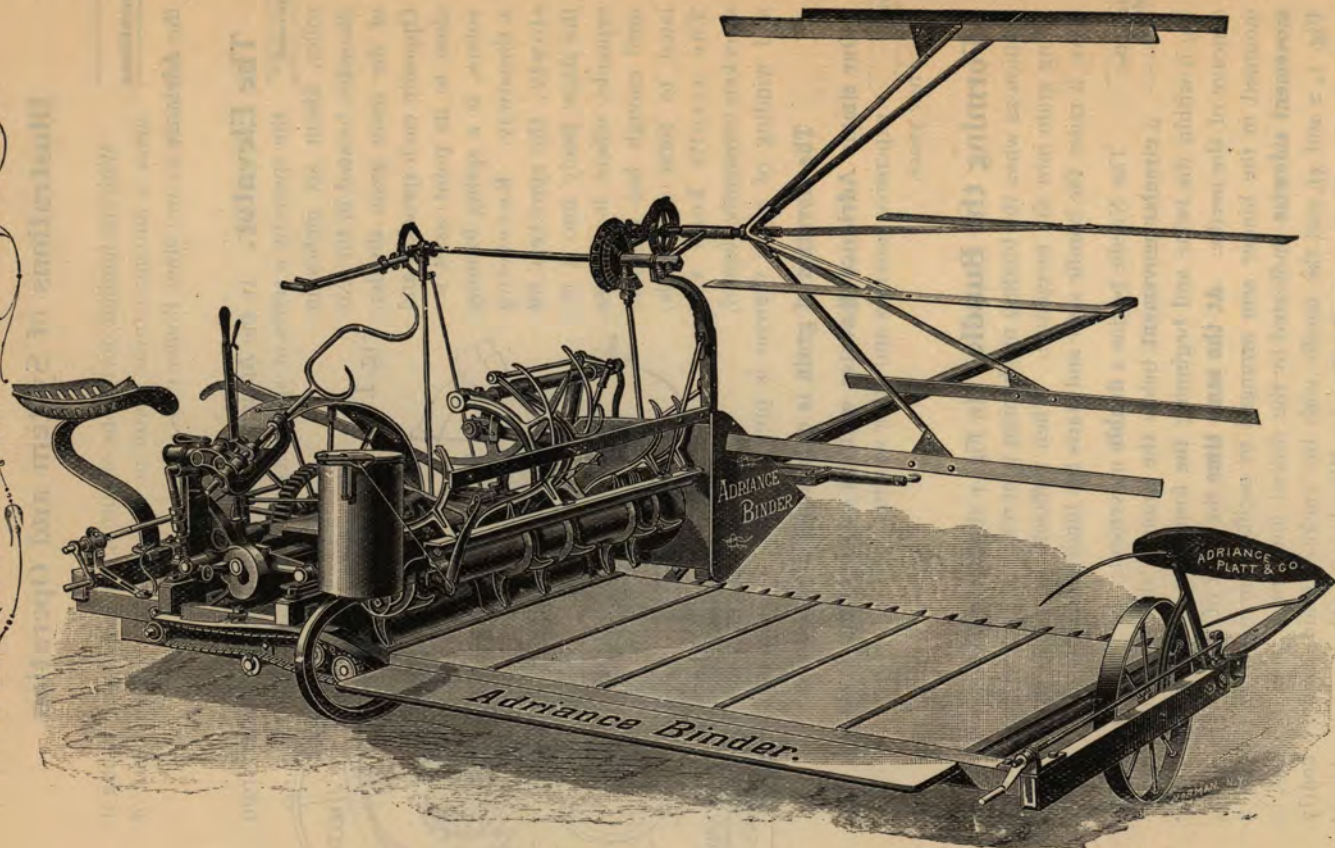
Thoroughly protected by Patents, it still remains the **only** successful Binder without high canvas Elevator.

Its influence.

The influence of this binder on all others has been very great. The high elevating machines have been reduced in proportions and made more attractive in appearance, but not always perhaps improved, as some **good features have been sacrificed** to meet the demand we established for lighter Binders, with less elevation and lighter draft.

A single instance: The **Driving Wheel**, formerly as large as our own, on nearly all binders is now reduced until some are **less than 32 inches**, and yet such Binders approach **only a little** closer the limited elevation of the **Adriance**.

ADRIANCE PLATT & CO.



MOWERS & HARVESTERS

ADRIANCE REAR DISCHARGE BINDER.

The Adriance Binder.

Illustrations of System and Operation.

**The only
resemblance.**

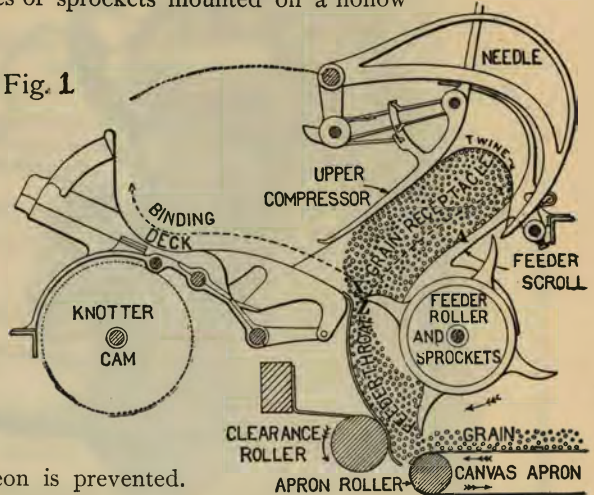
With the familiar operations of cutting the grain, and reeling it upon a moving canvas apron on the platform, all similarity of the **Adriance** to any other Binder ends.

The Elevator. In the **Adriance** system the grain is received from the apron by a series of sprockets mounted on a hollow

First "Open-end."

roller, about six inches in diameter, located in the rear of the inner grain divider. Opposite each sprocket and close to its point as it revolves, is a spring forming a throatway. Revolving slowly, the sprockets lift the straw freely into a receptacle, where it remains until enough has accumulated to form a bundle. The scrolls keep the sprockets constantly cleared, and winding of grain thereon is prevented.

Fig. 1



The elevation of grain is only about fifteen inches.

Our simple **Adriance Elevator** with its two bearings saves you two

A big saving. expensive canvases and other wearing parts of ordinary elevators every few years.

Forming the Bundle. In Fig. 1 above, the parts are shown in position as when the binding mechanism is at rest, and the feeder sprockets lifting grain into the receptacle. When sufficient grain has accumulated there, it raises the bundle sizer and starts the binder mechanism.

**Watch this on the
machine.**

The Needle begins a **double** movement; the point passes with a **circular movement** below the grain in the receptacle, enclosing it within the twine and beginning the formation of the bundle in the concave of the needle. **At the same time** the shaft of the needle, being mounted in the binder arm arranged to oscillate on a center, begins a **movement sidewise** (indicated by the dotted line, drawn from its shaft, in Fig. 1, 2 and 3), and the needle with the enclosed grain is moved **boldly** to the Binding Deck, near the Driving Wheel and on the opposite side of the feeding-throat, **well away from the grain receptacle**.

No interruption occurs in feeding the grain into the receptacle.

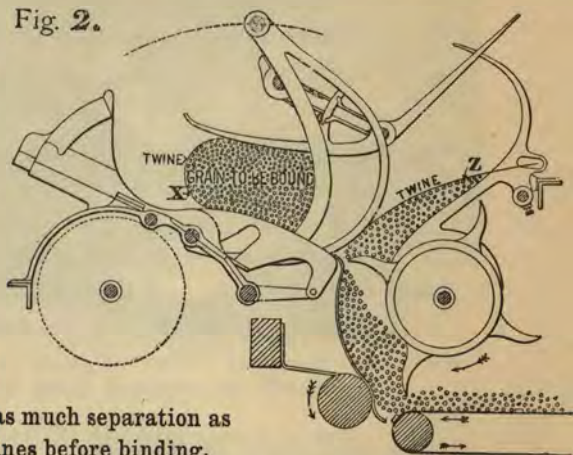
The unique movements of the **Binder Arm** and the **Needle** are radical features of our **successful separation**. Every motion of the parts in making the bundle and returning to position, is controlled by **one crank** and a simple connection of only two parts. **Harmony of movement is inevitable.**

The needle does not have to be forced through a mass of incoming, sometimes tangled, grain, as on all other Binders, but when it

A Passage Opened.

crosses the throatway a sprocket will be in position at the top, as shown in Fig. 2, making a clear way for the needle point, which passes just below the sprocket point. Fig. 2 shows the needle about **half way** in its movement carrying the partially compressed bundle to the Binding Deck, already **having accomplished about as much separation as is ever made on other machines before binding.**

Fig. 2.



How slow and easy is our needle movement compared with flying, thrashing "packers" and the flash-like movement of the needle on all other binders.

You should see the operation.

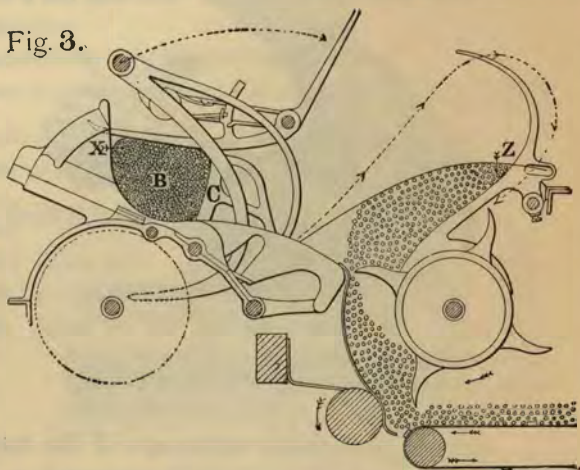
Compression and Tying take place while the Needle is relieved from work and backing a way from the bundle,

and the Discharger Fork at rest and using no power.

Not by the Needle.

In Fig. 3 the forward movement of the Needle is completed and the side compressor (C), which **relieves the Needle** from strain, is holding the bundle (B) fully compressed on the Binding deck and ready for tying.

Fig. 3.



See the **wide separation** of the grain being bound from that feeding in the **opposite direction** into the receptacle.

Other Binders interpose only the width of the needle, and continue to feed against the **Needle-back**.

The Return of the Needle, to the starting point for a new

A change of route.

bundle, is made **while the knot is being tied** and is not over the track of downward movement, but the point follows the dotted line shown in Fig. 3, **passing above the grain receptacle.**

This peculiar movement is **a great novelty**, by which we **avoid** giving the Needle the **great speed, necessary in all other binders** to get it out of the way in preparation for the next bundle.

Our **continuous** elevating obviates most of the "choking" so common in canvas elevators.

The Knotter has proven to be **very reliable, durable, and not liable to get out of order.**

It is located directly under the thin, malleable iron Binder deck, which alone is interposed between the Knotter and the bundle, to which **the tie is closely made.**

Its **advantages over others** are noted under the heading "Economy of Power" and "Saving of Twine" on page 23.

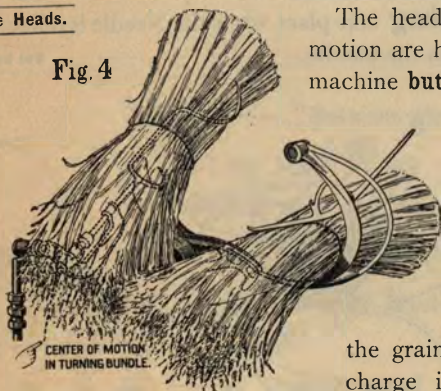
Rear Delivery of Bundle. A Discharger Fork is pivoted on

Very Distinctive.

a standard at the rear of the binder frame. When the needle commences to move a bundle toward the Binding deck, the Fork lifts the last bound bundle from the deck, and turning it over to the rear, **drops it gently on the butts** out of the way of the Binder on the next round.

Not on the Heads.

Fig. 4



The heads being held near the centre of motion are handled very gently, sliding off the machine **but a few inches above the stubble**; the Fork then returns, the tines pass below the new bundle, ready to make another delivery.

This Rear Discharge presents a most favorable comparison with the system of all other Binders, which elevate

the grain over the driving wheel and discharge it sidewise, to fall several feet and strike the ground, at least as much, and generally more, on heads than on the butts.

Some of the **many advantages of the Adriance Binder** secured by the novel construction described, are noted in succeeding pages, but a just appreciation of all advantages can be best secured by seeing the machine in the field.



Great Capacity and Range of Work.

So small, light and simple does the **Adriance** appear in comparison with other Binders that its **capacity for work** is always **astounding**.

It is big enough.

Long, Heavy and Tangled Crops it is specially adapted to handle, because the **grain is not forced through any confined space**, and there is no doubling or packing of the straw.

For Short Grain. The Needle, accompanied by a supporting scroll feeder sprocket and throat spring is **easily shifted** to place the band as required, and several sets of sprockets are **grouped closely near the cutter bar** as shown in cut below.

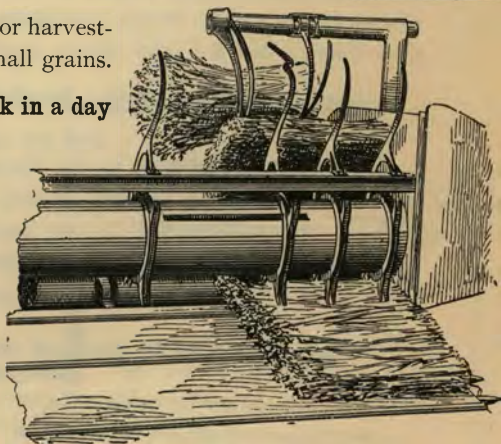
"It has no equal for handling any grain that grows,"

is the testimony of farmers who have used it in all crops.

Good authority.

Many owners use the **Adriance** for harvesting their ensilage corn as well as small grains.

The **Adriance will do more work in a day** than other binders designed for same width of cut, because it is more compact, more easily handled by the team, more easily operated by the driver, and a full swath more uniformly cut, and it turns corners and is taken from place to place more quickly.



Perfect Separation of the bundle from the unbound grain is the most difficult attainment involved in the construction of binders.

Nearest the Goal.

The **Adriance** has made the **nearest approach to perfection.**

In all other binders the method of handling the cut grain tends to compact and mass it together.

In the **Adriance every operation** from the beginning tends towards the final **perfect separation.**

This statement is easily understood to be an important **fact** by reference to some of the preceding figures. At the point A, on the feeder scrolls (see Fig. 1, page 18), the sprocket ceases to lift the straw. That sprocket which first caught any turned straw, first ceases to lift it; thus the sprockets begin by **straightening the grain in the receptacle.**

This too helps do it.

In making a bundle, the grain at X, **just above** the sprocket point, is caught by the Needle and carried to the Binding Deck, while the grain at Z, **immediately below** the same point, is moved in the **opposite direction** to the top of the receptacle.

Thus the **portions of the two bundles** which pass through the feeder throat the **closest together**, and therefore most likely to be **tangled, are most widely separated** and bound in different bundles.

The movement of this grain is indicated in Fig. 1 by dotted lines, and its position, as the separation continues, is indicated by the letters X and Z in Figs. 2 and 3, page 19.

Final Separation and the beginning of the discharge is shown by Fig. 4, page 20. One bundle **held securely** by the needle, upper compressor and twine is approaching the binder deck while another, **tightly tied**, is lifted from the deck, and the **butts turned over** to the ground.

If grain was so badly tangled that parts of different bundles still remain attached, turning the bundle completes the separation in the most natural way, drawing tangled grain slowly apart, as by hand.

Separation is so thorough that, **bundles rarely hang together** in any grain.

Clean Delivery.

**No chance for
Gleaners.**

As the discharge of the **Adriance** bundle is not necessary to tighten or strip the knot, **one bundle** after tying **lies undisturbed** on the binder deck **until another is secured**. **At the time of discharge, both are firmly held**, and the second is interposed between that being discharged and the incoming grain, there is

No loose grain to be dragged out by the bundle discharged.

If a bundle is about to be discharged on a corner, in the way of the team on the next round, the driver can easily throw it behind him out of the way.

Economy of Power is the great essential of light draft, the **Adriance** compared with any other Binder, makes a **great gain** Saves everywhere. in nearly every operation. The grain is moved only about **half as far**, **elevating requires far less power**, and **less speed**.

All the **power of unnecessary compression is saved** and a **stiffer and better bundle is obtained**, because Saving in compression.

On other binders the twine is measured off, and the end held before the knot is tied; several inches of slack twine for forming the knot must come largely from the twine around the bundle. To secure a tight band compression must be excessive, that the slack may be taken up by expansion of the bundle after tying.

The **Adriance measures the twine around the properly compressed bundle**; slack is yielded by and again taken up by the "take-up lever."

Also, by **any other system** than ours, after making a bundle the knot must be tied, the needle returned to starting position, and the bundle delivered, before any more grain can be placed for another bundle. This **necessitates the most possible rapid movement of the mechanism**, which requires greater power and increases the draft.

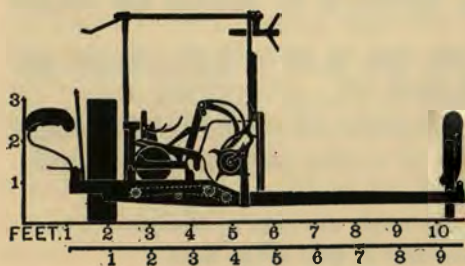
On the **Adriance**, the **three operations** of feeding, making a Saving in Speed. bundle, and discharging **proceed simultaneously**, and we economize **power by slower movements**, as well as in methods.

The Saving of Twine. The **Adriance** bundles are **round**, and the same amount of grain is **inclosed by less twine** than is required for flat bundles, as made by all other binders. The **Adriance knot also requires less twine**, and **none** is cut off and **wasted** in the end holder.

An **Adriance Binder will save for you** Tells on a big crop.
about one and one-half balls of twine in every bale.

The band on a round bundle does not, as on a flat one, become loose as the bundle dries, and this, as well as its shape, renders our round bundle much better for shocking and stacking.

Portability. Without the seat, an **Adriance** cutting full five feet, has an **extreme width of less than ten feet**.



With the seat in place it is a little over ten feet.

Excepting the reel, **no part is much above the driving wheel**.

It requires no truck, but in full working condition can be driven through ordinary gates, and is conveniently stored.

Balance and Adaptability to Work. Weight in the **Adriance** is largely on the **Driving Wheel** with which the grain wheel is in line. Balance is excellent and the machine is **easily** tilted.

Platform and frame can be easily raised or lowered by means of cranks.

All weight is carried low. In this respect, as well as in its **light weight**, and **draft**, the **Adriance** is adapted for **hillsides**,

where no other Binder can be successfully operated.

Light Draft. The great economy of power, light weight, and use of a large driving wheel and the perfect balance secure so light a draft that the **Adriance** is as easily handled by two horses as is any other Binder by three.

Ease and Comfort for Operator. On the **Adriance** the driver has a comfortable, safe seat, and he can step directly to the ground. His weight assists to balance. His team is within easy reach, and every operation of the machine in sight and easily controlled.

By levers convenient to his right hand he can operate the reel, lower, tilt, or throw the machine out of gear, or change the position of the band on the sheaf. The **ease and quickness** with which this change can be accomplished is most noticeable, and its importance is well understood.

The needle is easily threaded, every leader for the twine is in plain sight and easy to reach.

Simple Gearing. A spur-gear bolted to the Driving Wheel gives motion to a spur pinion and bevel wheel, in one part; carried on a stud of the frame. This bevel wheel meshes with a pinion on the crank shaft, which carries also the clutch for throwing in and out of gear, and a spur pinion which drives the Binder and Discharger.

The Apron and Feeder, or Elevator, are driven by the short chain shown in the rear, on the illustrations.

An Adjustable Wind Guard is provided with each Binder.

A Bundle Carrier is furnished at a moderate price when desired.

Durability. Our Binder is constructed with our usual great care in workmanship, and in selection of the **material best adapted for the use to which it is put.**

The Finger-Bar is cold rolled angle steel, shafts are steel, malleable iron is largely used, and **brass composition** for bearings where desirable.

It is, however, not owing to careful construction only, but to the **simplicity** of the **Adriance**, the **slow movement** of working parts, **its lightness**, which saves much strain and wear, that

the **Adriance** is proving the **most durable of Binders**, and the **most economical** as well as the best.



The Adriance Reaper,

Invented and developed by us in a locality where is grown the greatest variety of crops, and where the most various and severe requirements are placed on a reaper, won its reputation as the **Best of all Reapers**.

Perfectly balanced, simple, strong, of light draft, and easily operated; it is the **Most Serviceable and Reliable** for **satisfactory work in all crops in any condition**.

Owners use it largely as an **ensilage harvester**, for which its thorough bracing, large platform, and long rake-arm renders it **better adapted than any other reaper**.

The Solid Frame, peculiar to the **Adriance**, supports A Firm Foundation, the gearing, shafting, Raking apparatus, Cutting apparatus and Platform. **Two bearings are provided for each shaft**, and shafts and gearing are well covered and protected. The **Rake Standard** is securely braced and furnishes two bearings for the upright shaft carrying the Rake Arms.

The **Platform** is exceptionally well made, and rigidly supported by the frame well back from the Finger-Bar, is carried steadily and it is prevented from sagging or dragging at the rear in turning or backing, a fault common in other reapers. The **Driving Wheel** is large and **free from gearing**.

The Widest Range of Work, in height of cut, and freedom

Goes to all lengths. to tilt without change in the relative position of parts, or in stroke and line of pitman; is secured by use of our novel **double crank axle** connecting the Driving Wheel and Frame.

The **Grain Wheel** is nearly in line with the Driving Wheel, rendering the Reaper **easy to turn** and hold up to its work on side hills.

The team has ample room and a **full swath** is cut without crowding.

The Cutting Apparatus is in line just forward of the driving wheel axle, the most favorable position for passing through ditches and over obstructions.

Good as for a Mower. The Finger-Bar is of cold rolled angle iron. Guard fingers secure the **perfect shear cut** as described for our Mowers. Either smooth or sickle-edged scythe may be used, and is **easily** taken out and replaced.

Our Automatic and Controllable Rake can be set by a

Just as you please. convenient lever to **automatically** deliver the gavel by either every second, third, fourth or fifth rake. At the same time the driver by his foot can control and vary the operation of **any arm** at pleasure; using it either for **reeling** or **raking**, and delivering the gavels **at will**. The moment the operator ceases to control it, the Rake **resumes** its Automatic action, beginning again its **count from the last arm operated as a rake**.

The serviceable size of the few parts in our "Counting device" is notable.

In most of the so-called controllable or automatic rakes, although they lack the simplicity and durability of our device, if a rake is allowed to pass as a reel, the gavel must be carried until an arm set as a rake comes around. Note the superiority of the **Adriance**.

A Perfect Gavel. The **Adriance** embodies every feature and

You can get it. adjustment for securing the most perfect gavel possible in any kind or condition of grain.

The Rake Gearing is located on, but high above the frame, with careful reference to securing the best relation of the Rakes to the platform, both in approaching and leaving it. The exceptional distance from the cutting apparatus avoids danger of winding up long or leaning grain.

The Rake-Arm is very long, and thereby a great sweep is given the rake-head, which, with our carefully adjusted relation of rake motion to Finger-Bar, secures the best reeling of grain on to the platform.

The Speed of the Rake, and size of gavels may be increased

this is unusual. or diminished as peculiarity of team or of crop may require.

The Tilting Lever at the right hand of the driver is quickly operated **while in motion**. A single movement adjusts the platform, and for low cutting, causes the rakes to sweep to the ground and lift to the platform straw which is lodged, tangled, or lying in the direction of advance.

Our Deep Platform, with long sweep of the rake over Greatly assists. it, causes the grain to be fully turned and **well straightened**, and enables us to deliver the gavel **with well squared butts, and in good shape for binding on any ground.**

Well Balanced. **Folded or at work**, the machine can be **perfectly balanced**, and is free from weight on the pole and necks of the horses.

Portable. The cut below well illustrates the portability of the **Adriance**. It can be more **quickly, easily and compactly folded** than any other reaper.

Only two pieces are removed from their places for folding, and are securely carried on the machine. The seat and supports can also be folded.

Four feet is the extreme width when fully folded.

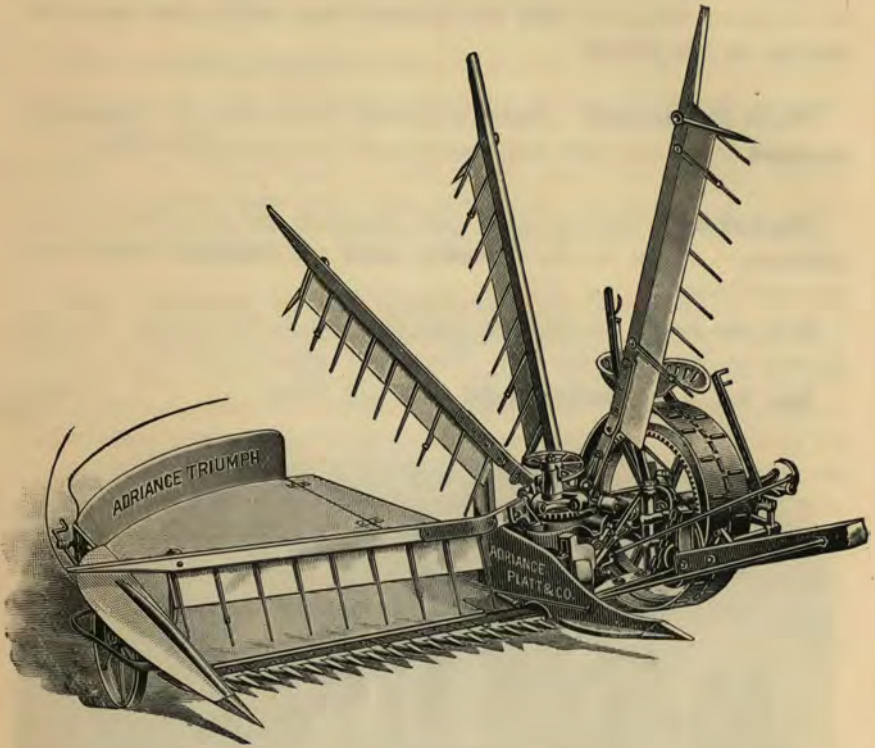
Fine for Winter
Storage.



The Triumph Reaper,

**Better than ever
before.**

which has won all over the world an **enviable reputation** in its class of Light Reapers, for **excellence of work, convenience of handling**, and even to a more marked degree for **light draft**, has been purchased and remodeled by us. Built under the same system employed in our other manufactures, this machine will hereafter be known as the



The Adriance "Triumph" Reaper.

We build it in **two styles**—a **Folding** Reaper and a **Non-Folding**. The same description answers generally, but special features of either style will be referred to.

The Main Frame is of steel and cast iron combined to secure

A good beginning.

in a **light construction** the necessary strength and stiffness. A bearing is provided for the axle on both sides of the wheel, and axle and frame are mutually supported and stiffened.

The Cutting Apparatus is located as in the **Adriance**: construction is practically the same, and it is made in the same thorough manner already described.

The Finger-Bar of angle steel is backed by another of ash, which carries the platform, and is supported at its inner end on a bracket affixed to the lower end of a standing shaft which connects the cutting apparatus to the frame and provides by its movement, up or down, for a **great range in the height of cut**, controlled by a lever hereafter described.

Main Gearing. A spur-gear, within the driving wheel, is distant from the tread and protected by the broad face of the wheel. Little of it.

The cross shaft, pinions, bevel wheel and crank shaft are all **encased by the frame**.

Rake Gearing. The rake is driven independently by a pinion **connected directly to the main axle** by a coupling which adapts itself without cramping to any change in position of the machine. Still less of this.

The entire separation of the rake driving mechanism simplifies the parts and greatly **lessens the draft**.

Convenient means are provided for putting either scythe or rake into action.

The Rake. From the top of the upright sliding shaft, two braces are fixed to the Finger-Bar and Platform, and between these braces, **thoroughly supported**, is the Rake Standard. Each Rake reaches the platform parallel with the Cutting Apparatus, insuring proper **reeling** of grain. The gavel is delivered from the platform cleanly, with butts well squared and in **good shape for binding**. A Notable Construction.

The Rake cam is **very large**, which greatly **lessens the power required** for moving the rakes over the curves and switches. A big Cam.

Rake Heads. The **rake heads are very deep**, with long teeth partly covered by a beater board, a construction which prevents long or tender grain from winding. An extended end of the Rake arm clears the outer divider, and a spring tooth at the outer end of the Rake presses closely against divider and verge board, insuring a **clean delivery** of the gavels.

The **Adriance "Triumph"** is particularly successful in cutting flax or clover seed.

Our Automatic and Controllable Rake, as used on the **Adriance Reaper** and described on page 24, has been adapted to the **Adriance Triumph**; it meets perfectly every requirement. For swathing grain, or cutting ensilage or sowed corn, all four rake heads may be set to deliver automatically. A good thing, we extend its use.

The Pitman. Has universal joints at both ends to prevent cramping, and providing also a convenient means for **taking up any wear**.

Convenient Levers. A lifting lever close at the driver's right hand enables him, on the **non-folding** machine to raise or lower the platform **at the grain wheel and inside simultaneously**; or when cutting a close stubble to raise it over an obstruction.

This is fine

On the folding machine the grain end is adjusted by a crank.

The Tilting Lever is equally convenient, and tilts the platform, dividers and the Rake, so that the rake heads may be thrown well down **for picking up grain that is lodged or leaning from the machine.**

Gathers it in.

The Grain Wheel is so **nearly in line with the driving wheel** that the machine **turns easily**, and **holds well up to its work on side hills.**

The Broad Bracing from the pole both to the frame and the cutting apparatus, gives great strength to the machine.

All Good.

Convenience, Balance and Portability.

The seat of the driver is **easily accessible, convenient for all levers, and for handling his team and watching the operation of the machine.**

The weight of the driver in the seat is adjusted to balance the machine. The horses carry no weight. The extreme width of the Reaper is, in operation, about 10 feet; the seat may be removed so that the machine **easily passes through narrow gates.**

On the Folding Reaper the platform is readily sustained in an upright position much the same as on the **Adriance**. See cut on page 27.

Every Machine we Manufacture is Warranted

Full and Fair.

To be well built, of good material, and capable of doing good work under proper management in operating it.

If, for any reason, the machine should not appear to work properly upon its first day's use by the purchaser, he must give immediate notice in writing to us at Poughkeepsie, N. Y.; and to our agent at his address, through whom he purchased, stating in what respect he deems the machine to fail, and must allow a reasonable time for a competent person; to be sent by us, to remedy the alleged defect, the purchaser to render necessary and friendly aid for that purpose.

If then, it cannot be made to work well, the purchaser shall return it at once to the agent from whom he purchased it, and another machine shall be given and taken in its place; or any payment the purchaser has made to us shall be refunded, and this shall be a complete settlement between the purchaser and ourselves. No provision of this warranty and agreement can be waived, altered, or modified in any respect by any agent.

Continuous use of the machine, or at intervals through the harvest season, or failure to notify us as above, or to return the machine as above provided, shall be deemed positive acceptance of it by the purchaser.

ADRIANCE, PLATT & CO

Sizes of Machines.

Make your Choice.

The Adriance Buckeye Mower, Style H,

4 feet 3 inches, 4 feet 6 inches, 5 feet, or 6 feet Cut.

The Size C, for One Horse,

3 feet 6 inches, or 4 feet Cut.

The Adriance Rear Discharge Binder, 5 feet Cut.

The Adriance Rear Discharge Binder, 6 feet Cut.

The Adriance Light Draft Reaper, 5 feet Cut.

The Adriance Triumph Reaper, 5 feet Cut.

Extras Furnished with Machines.

MOWERS are furnished with Two Complete Scythes, BINDERS or REAPERS with one Scythe and one Sickle (or with two of either if so ordered), and every Machine with Two Extra Knife Sections, Two Extra Guard Fingers, Screw Wrench, Punch, Cold Chisel, Oil Can, Bolts, Rivets, etc., and Whiffletrees and Neck Yoke.

Repairs.

Convenience and certainty of procuring fixtures for repairs are Take Care.
very important points for a farmer to consider when selecting a machine.

Supplies of our extras are kept at Branch Offices and General Agencies, and at several hundred depots located in every part of our territory, and it is an indisputable fact that for no other machine can fixtures be as easily and surely procured.

Beware of Spurious Fixtures.

Do not purchase **imitations** of our Knife Sections, Guard Fingers, Beware.
or other fixtures. **They are all inferior** to our manufacture, which are not only of the **best quality**, but **sure to fit**. It is impossible to do good work with a poor cutting apparatus; see that all sections you purchase are stamped A., P. & Co., and packed in boxes with our name on label.

For further information address the most convenient General Agency.

See inside of front cover.

The Adriance Binding Twine

Every Time. Can be **relied upon** as being just what it is represented to be, **Strong, Uniform, Full Length, Full Weight.** The best in every respect. Each ball of twine has our tag and marks.

Strictly Pure Manilla Twine, just what the name denotes, made from strictly unmixed fiber, not equalled by any other Binder twine made.

Manilla Mixed A. P.
M. **Twine**, { which equals or is better than much so-called pure manilla.

Manilla Mixed A. P.
EX. **Twine**, { is a special mixed twine of excellent quality, running a little shorter than A. P. M.

Standard Twine, a smooth even fiber which will run better than any other twine commonly known as "Standard."

Manilla Mixed A. P.
S. M. **Twine**, { another special mixture, a good twine between A. P. Ex. and Pure White Sisal.

Pure White Sisal Twine, made from pure long fiber, smooth and uniform.

Be safe. Buy our guaranteed Twine and avoid loss in the field.

Extra Parts.

Triumph, Clipper (Morgan's), Seymour.

You can get the goods.

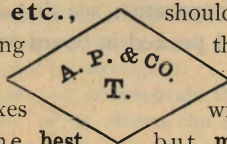
NOTICE TO THE TRADE.

Having purchased from D. S. Morgan & Co., of Brockport, N. Y., all their interest in the Reapers, Binders, and Mowers heretofore manufactured by them, together with patterns, etc., we **keep constantly on hand** Extras, likely to be wanted, for all machines made by them for the last **twenty years**.

Careful attention is always given to orders, and any part **correctly ordered**, can be **promptly shipped**.

These Extras may also be found with our agents, or former agents for the Morgan Machines; or can be ordered by them, and parties wanting anything to repair machines will do well to call on these agents nearest them before writing us or our nearest General Depot. See list on inside of front cover.

Sections, Scythes, etc., should be ordered from us, or you should insist upon having those of our manufacture. **Sections of our make** for **Triumph Machines** are stamped and packed in boxes with **our name on the label**. They are not only the **best** but **more economical** in use.



ADRIANCE, PLATT & CO.



HARVESTING WHEAT IN CALIFORNIA—A COMBINED HARVESTER, STEAM POWER.

Weight of Harvester, 6 tons; weight of Traction Engine, 13 to 15 tons; diameter of wheels, 7 to 9 feet; tread of wheels, 2 to 6 feet; width of cut, 26 to 42 feet; extreme length of outfit over 65 feet; extreme width about same; capacity, 75 to 100 acres per day. (See page 15.)

MOWERS, REAPERS AND BINDERS

