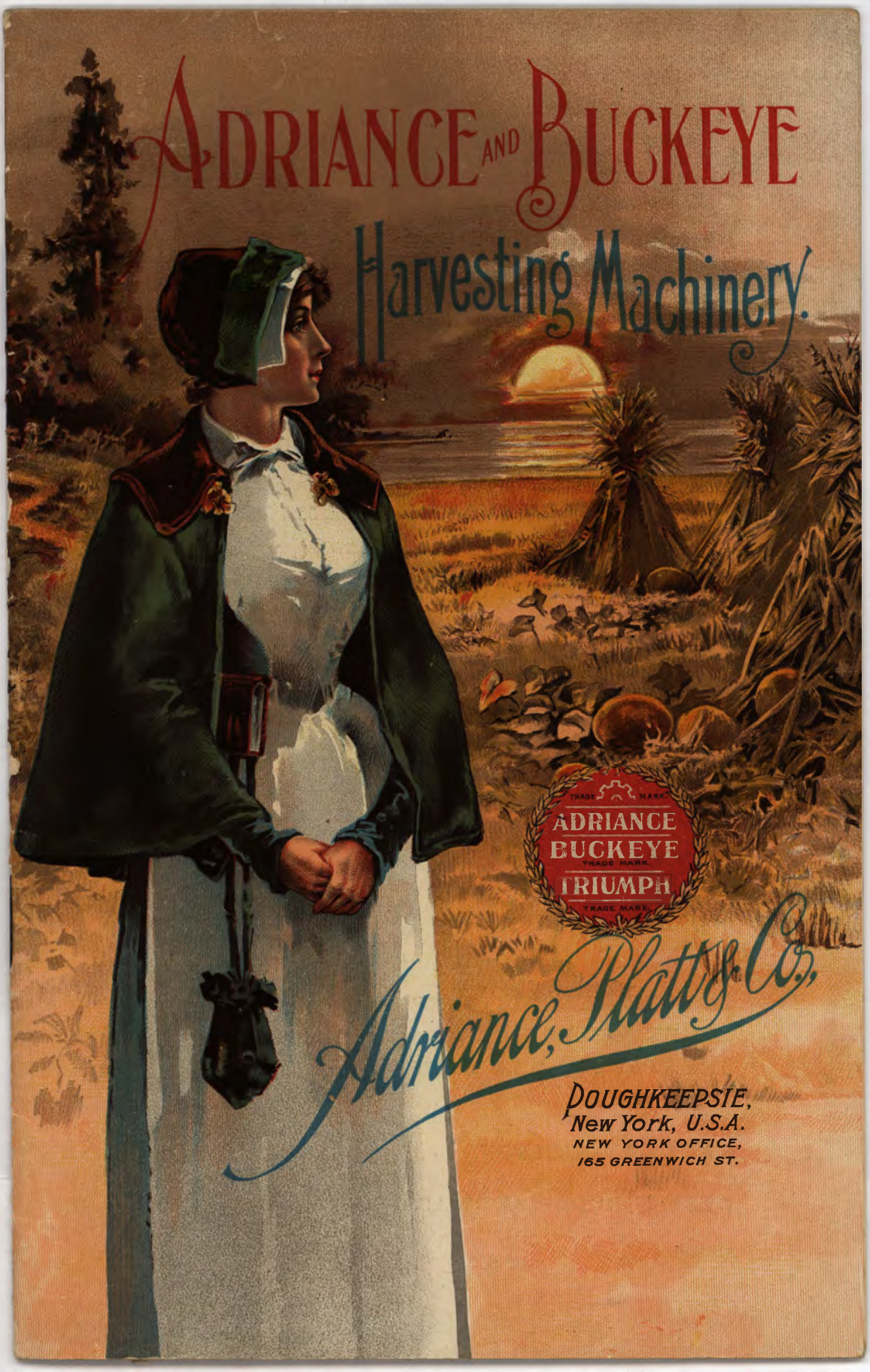
ADRIANCE AND BUCKEYE

Harvesting Machinery.



Adriance, Platt & Co.

POUGHKEEPSIE,
New York, U.S.A.
NEW YORK OFFICE,
165 GREENWICH ST.

"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."

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ADRIANCE, PLATT & CO.,
HAMBURG, GERMANY.

ADRIANCE, PLATT & CO.,
PARIS, FRANCE.

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CHAS. H. DODD HARDWARE CO., . PORTLAND, OREGON.

ADRIANCE, PLATT & CO.

POUGHKEEPSIE, NEW YORK, U. S. A.,
January 1st, 1898.

Our general Catalogue for 1898 will be of **special interest,** and will repay the careful examination of all intending purchasers of

Harvesting Machinery or **Implements,** and **accessories,**

While we have maintained in our products the successful basic principles which have given our machines such an unequalled record, we have been ever **progressive** in bringing out **true improvements,** in model, methods of construction, and features of utility. This catalogue will embody an **unusual number of innovations** in our Machinery Line as well as brief reference to other goods for which we issue Special Circulars.

Former Purchasers will learn that they can place orders with us to fill a greater variety of their wants, assured from experience that we offer

the safest and most economical for them to buy.

To the large army of our old friends we hope to add a greater number of new ones than for any past season, not only on account of the additions to our line, but because of the **greater opportunity for choice** in machines of our build, through the introduction of features which we have not before presented because not heretofore developed in a form which our experience, extending back to 1855, had shown to be truly desirable.

OUR TWO NEW MOWERS,

the **No. 8 Buckeye Gear** and the **No. 7 Chain Drive,** with Spring Draft and Roller and Ball Bearings, have given exceptional satisfaction.

Our **Style H** and **Style C Mowers,** and **Adriance,** and **Adriance Triumph Reapers,** are built for 1898 better than ever before.

Our ADRIANCE BINDER, the only real two horse Binder, is built with **Roller Bearings,** adding still more to its advantages over any other.

Our NEW ADRIANCE BUCKEYE BINDER,

with Canvas Elevator, is also built with Roller Bearings, and is **modern** and **up to date** in every respect, and has our **"Straight Away"** Binding Attachment and Simple Knotter.

Hay Rakes, Harrows and **Field Rollers** we offer in various styles and sizes.

Adriance Twine from the **famous Plymouth Mills,**
and **our own A., P. & CO. Sections** to fit **all machines.**

What we offer as **New** is in no case Experimental, but the result of many experiments **long continued to success,** backed by over **forty years** of experience, and **made sure** by a season in the hands of **practical users,** in widely separated localities and under all conditions.

To all we extend our heartiest **New Year's Greeting,** with our best wishes that 1898 will be a year of bountiful harvests and remunerative returns.

ADRIANCE, PLATT & CO.
ESTABLISHED IN 1855.

MOWERS & HARVESTERS.

ADRIANCE, PLATT & CO.

The Adriance Buckeye Mowers.

The No. 8 Buckeye Gear,

The No. 7 Buckeye Chain Drive.

Automatic Spring Draft, **Roller and Ball Bearings,**

and other improvements.

About two thousand of these mowers were included in our sales for 1897, with **perfect success** most gratifying to the purchasers and to us.

Seen at a glance. The **Simplicity** and **Symmetry** of both machines is instantly impressed upon the observer. Following this general impression, the particularly striking features are the

large Driving Wheels, wide apart,

the light Open Frame,

the **very long Pitman** and Bar connections;

and the **Spring Draft, an entirely unique feature** in Mowers.

Improves on Acquaintance. The favorable impression created by the appearance of the **No. 7** and **No. 8** is confirmed by a **practical test** of the **exceptional ease** with which they are **handled from the seat,** and an examination of their individual features is convincing that

The Adriance Buckeye is the epitome

of all that is best in the Art to-day.

Nothing to confuse in choice. The two mowers are the **same in every respect,** except the method of actuating the scythe, and the few differences in detail made necessary thereby. One description, therefore, covers both the **No. 8** and the **No. 7,** except as to the driving mechanism, of which both systems are described and illustrated.

Our Record. Our Adriance Buckeye was the **first** of all **successful mowers** and has to-day the record of the

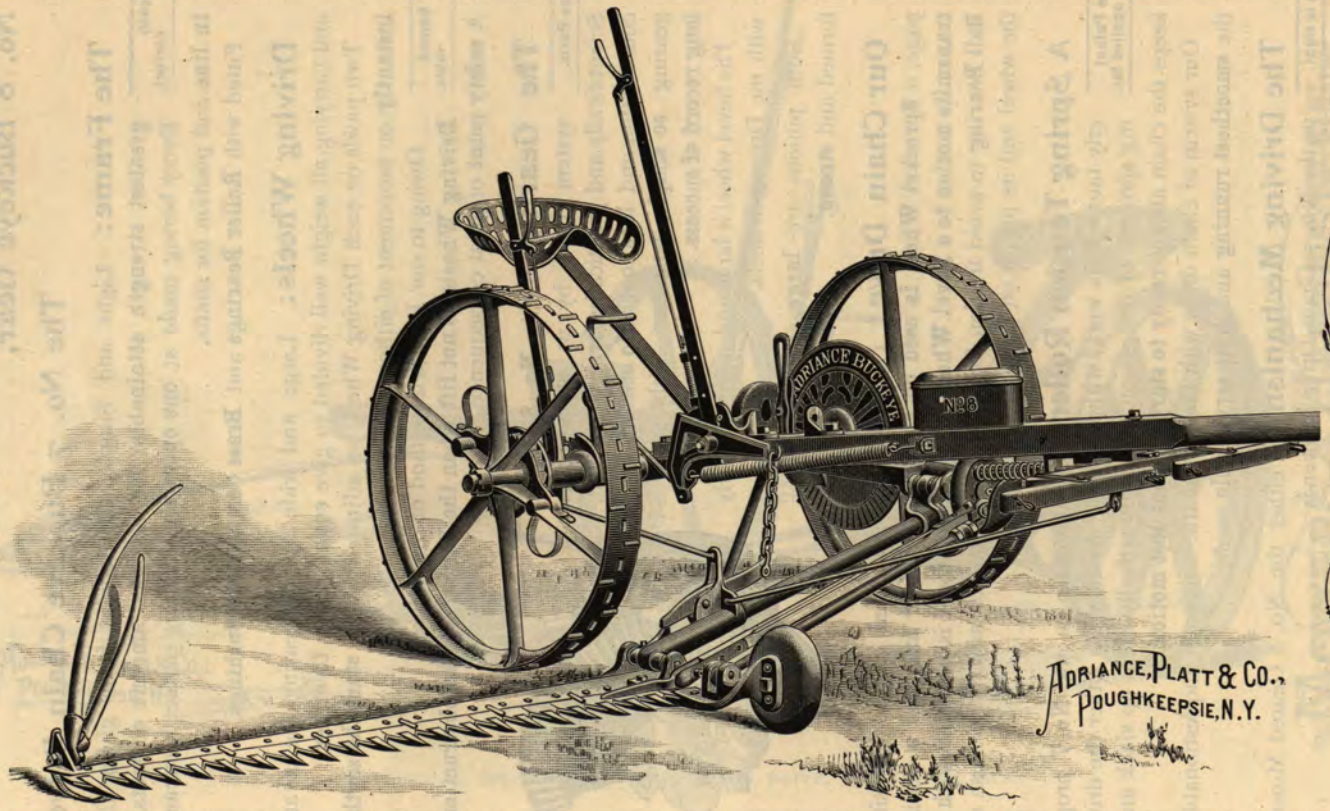
only mower continuously successful from its introduction.

We have **held fast the principles of proven superiority and success, and the changes have ever been improvements.**

Our latest Mowers embody the best of all the past.

MOWERS & HARVESTERS.

ADRIANCE, PLATT & CO.



ADRIANCE BUCKEYE NO. 8, AUTOMATIC SPRING DRAFT, SPRING BALANCED BAR.

MOWERS & HARVESTERS.

The Adriance Buckeye Mowers.

The No. 8 Buckeye Gear,

The No. 7 Buckeye Chain Drive.

The Frame: Light and Simple, the tubular forms giving the **greatest strength attainable for a given amount of metal.** Every boring made at **one operation,** securing perfect **accuracy in line** and position for shafts.

Scientifically correct.

Fitted with **Roller Bearings** and **Brass Composition Bushings.**

Driving Wheels: Large and wide apart, clearing the swath and carrying all weight well divided to give **equal power to either.**

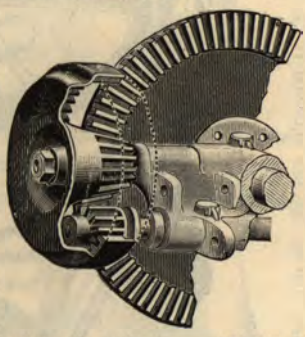
Two pawls on each Driving Wheel, so adjusted as to **start the scythe instantly** on movement of either wheel.

Possibly beyond value.

Owing to our Patented method of draft the **Driving Wheels do not lift when the Bar strikes an obstruction.** A **safety point** of great consequence.

The Gearing on the **No. 8** is the system used by us **since 1857.** Scientifically and practically **correct** in design, construction and location. **No other** mower gearing **so simple, no other** with such a **long record of success.**

Only Three Parts.



The bevel wheel is large and revolves slowly with the Driving Wheels.

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

Our Chain Drive: On the **No. 7,** illustrated on the opposite page, a **Sprocket Wheel is used on the main shaft or axle and a Chain transmits motion to a Bevel Wheel.** The Bevel Wheel is **provided with a Ball Bearing** to avoid friction from side thrust and to adjust the mesh of the wheel and its pinion on the Crank shaft.

A Spring Tension Roller keeps the chain on the **No. 7** properly taut for its work, without undue friction, on either the driving sprocket or the pinion. It automatically takes up slack and keeps the chain always **ready to start without lost motion.**

Exclusive Patent applied for.

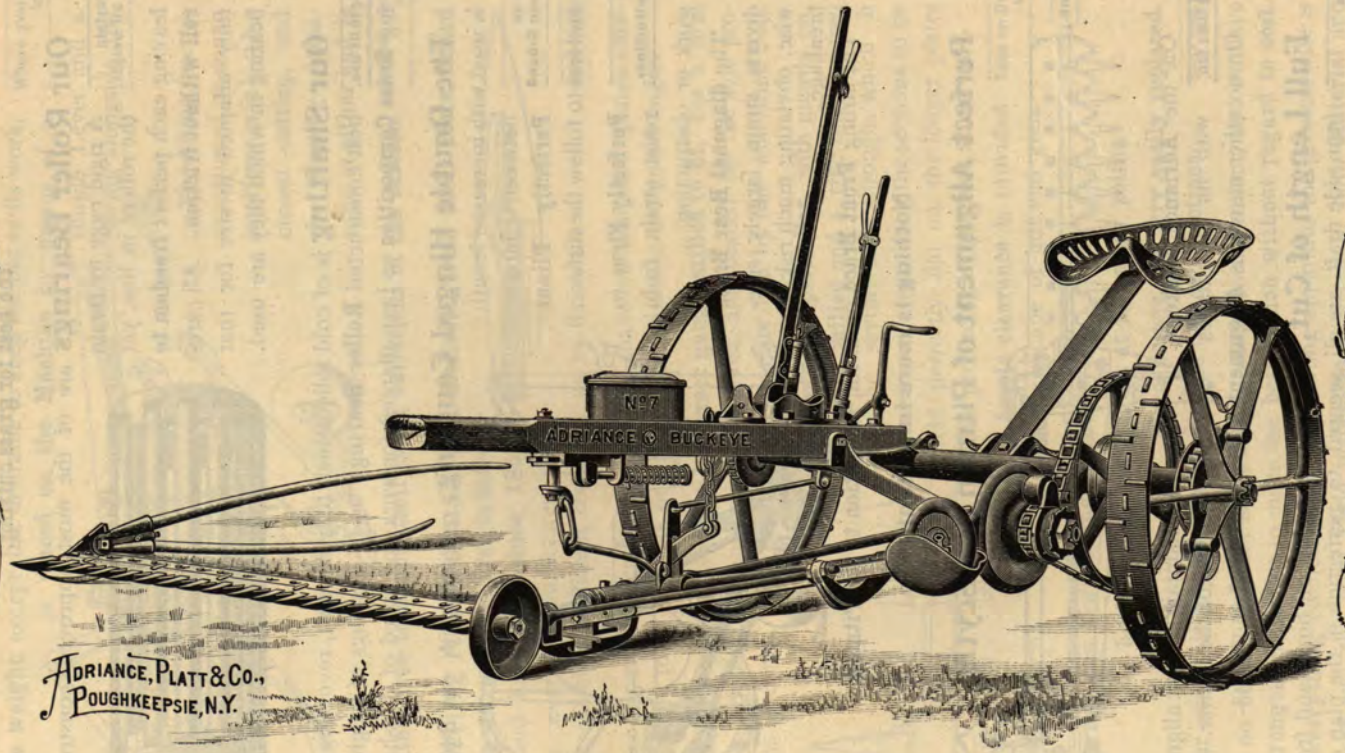
Our system of chain drive with the automatic tension is unquestionably the **smoothest running** and **most serviceable** made.

The Driving Mechanism on either the No. 8 Geared Mower or the No. 7 Chain Drive Mower is

Location is right.

Compact; Out of the way; High above ground;
Close to left Driving Wheel, helping to equalize it in driving power.

ADRIANCE, PLATT & CO.



MOWERS & HARVESTERS.

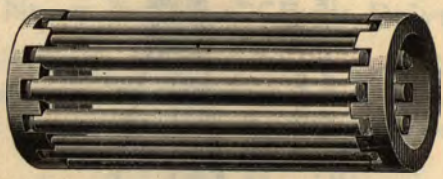
ADRIANCE BUCKEYE NO. 7, STRONG OPEN FRAME, CHAIN DRIVE, PERFECT BALANCE.

The Speed on both the **No. 7** and the **No. 8** Mowers is that proven by over four decades of successful experience, to be **the best for grass cutting.**

The Test of Time.

Our Roller Bearings are of the most approved construction. A rigid cage to retain the rollers in line, yet leaving each perfect **freedom to roll without friction.** All carefully adapted in size for that bearing in which they are used.

Rollers Sustain all weight.



Our Shafting is of cold rolled steel, fully covered, revolving in the best constructed **Roller Bearings** or in bushings of tough wearing **Brass Composition** as best adapted for work and speed of the shaft.

Everything to its use.

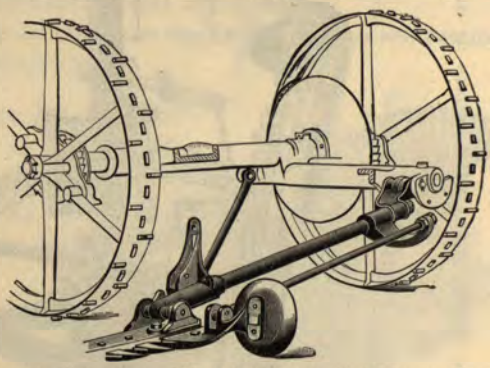
The Double Hinged Coupling, original with **our Buckeye;** is used with increased length between hinges. **Perfectly Pliant** and free to follow the surface.

You mow on Uneven Ground

Perfectly Firm to resist strain from work or obstruction.

And meet obstructions.

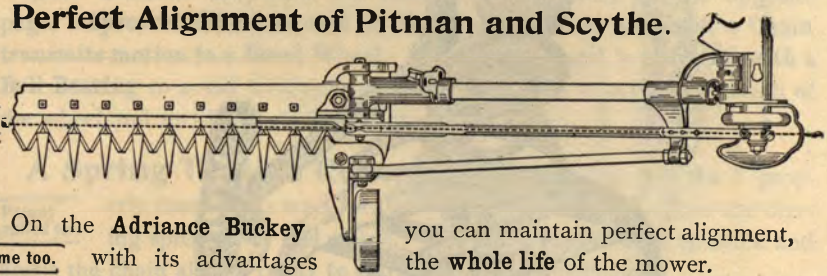
The **diagonal Rear Brace** diverts strain largely sidewise, obviating much risk of breakage.



The strong **Front Brace** gives full **protection to the Pitman.**

Nothing is more important than

Perfect Alignment of Pitman and Scythe.



See the line.

On the **Adriance Buckey** with its advantages you can maintain perfect alignment, the **whole life** of the mower.

It's a long time too.

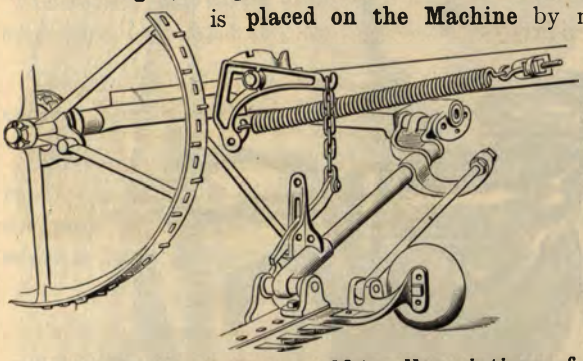
On no other mower is **Alignment** and **Adjustment** as perfect.

Full Length of Cut, ample space for the off horse, and freedom from side draft, are all secured to perfection in the plan of the **Adriance Buckeye.**

Tells on a Day's Work.

Self-Adapting Finger Bar: We do not **drag,** but **carry** the Couplings and entire Cutting Apparatus, **even to the outer end,** lightly. **All the weight,** except that desirable to keep the bar to its work, is **placed on the Machine** by means of a simple Lever and a Spring alongside the pole.

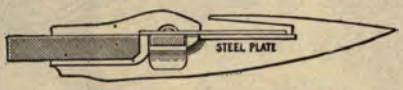
Where available for power.



The lifting force is so adjusted as not to interfere with the closest cutting, and the Cutting Apparatus at **either end is absolutely free to adapt itself to all variations of the surface.**

Smooth cutting assured.

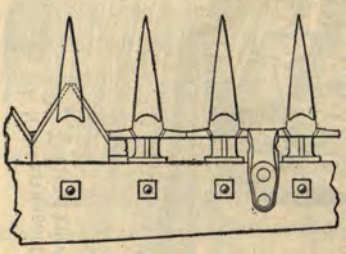
Cutting Apparatus: The **Malleable Iron, Steel Plate, Guard Finger we were the first to introduce** and have **used since 1859.** Nearly every manufacturer now uses it, which is sufficient testimony as to its merit.



Superiority proven.

These Guard Fingers, as used by us, have oil tempered plates carefully ground to an accurate bevel and firmly fixed to the guard finger.

Every Guard is finished to an **exact gauge, milled to fit,** has a firm bearing against the planed edge of the Bar, and braced by the side projections (see cut), is held securely in accurate line by one well-fitted bolt.



Every complete Bar, with guards on, is **again milled** and a true line prepared for the scythe rod, through which it passes freely, permitting the sections to be held perfectly flat on the ledger plates thus producing a **perfect shear cut.**

Ample clearance is provided for the escape of grit and gum.

Tells on Draft and Wear.

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

Worn fingers are very easily replaced.

For over thirty years we have made our own 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.**

In **everything** connected with the cutting apparatus the greatest care is exercised and the most **rigid inspection** is given to both **Material** and **Workmanship.**

Pl. 405 H.

THE ADRIANCE BUCKEYE MOWER, EASY FOR DRIVER AND FOR TEAM.

Direct Draft: The total resistance, nearly, in drawing a Mower is at the point of impact of the Driving Wheel on the ground.

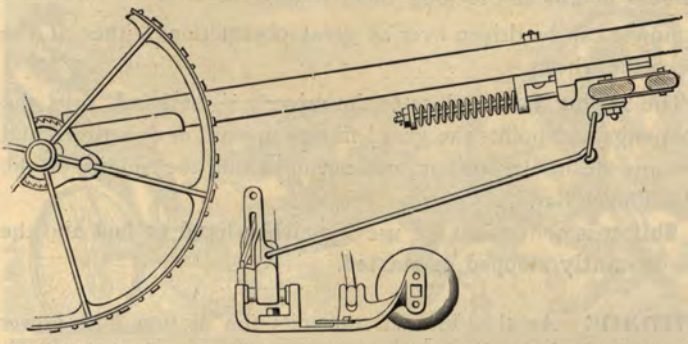
Therefore, **true direct draft** is necessarily **from the Axle,** for by means of the Axle only can the wheel be rolled. — Must be so.

This principle of draft by the pole we have successfully used from the earliest days of Mowers.

The invention of **our Automatic Spring Draft** and **Draft Rod** enables us to adhere to the **true principle** of Direct Draft and, at the same time, **secure to a greater extent** than others **the advantages** which a Draft Rod sometimes gives; as we are able to connect it — Gets all the advantages.

lower and closer to the cutting apparatus.

Under ordinary conditions of work our Draft Rods hangs — The Pole does its work.



loose and inoperative. In event of the Bar striking an obstruction, the whiffletrees compresss the spring against which they draw, slide forward, and the draft is **instantly transferred** to the Draft Rod, and **directly** from the whiffletrees to the Cutting Apparatus; thus avoiding all unusual strain upon other parts of the machine and reducing to the minimum the liability to breakage. — The Draft Rod does its work.

Under all varying conditions the Draft is where it should be and is shifted as the work requires for the best results.

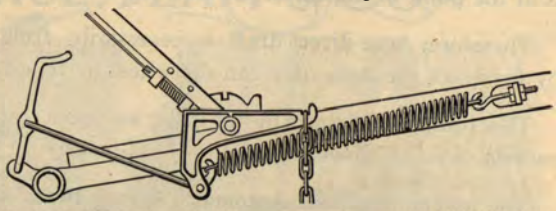
The **Draft Spring** makes the work **easier for the team,** saving them from many shocks in rough mowing.

On rough, heavy, or up-hill work the Draft Rod **acts automatically to the required degree** and assists in carrying the Cutting Apparatus.

The Leading Wheel, one of our old-time features, has in our 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. — But a good thing yet.

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

Easily Operated: The Lifting Levers are used with **exceptional ease by either hand or foot,** as the **Bar carrying Spring assists.**



The **Hand-Lever,** when not in use, is held upright and steady, in easy reach.

Don't "flop" around.

The **Foot Lever** is where the driver can **instantly use it** and, as its movement is forward, his **power on the Lever is doubled,** and his position in his seat is not rendered insecure.

Don't lift driver out of seat.

The **Lifting Levers** may be used **together** or **separately,** as each has the same effect on the Finger Bar and Couplings, carrying them to an **exceptional height** and locking them if desired.

Right for quick use.

No other mower can be driven over as great obstructions either at the bar or between the wheels.

All Levers are "handy."

The **Tilting Lever,** close to the driver's right hand, rolls the Couplings and points the guard fingers upward or downward and locks them in any desirable position, without impairing the rigidity of the bracing of the Finger Bar.

The **Gear Shifter** is convenient for use by **either hand or foot** and the scythe can be **instantly stopped or started.**

The Pitman: As the Pitman transmits the motion and power from the gearing to the scythe, and moves at high speed; it is of the greatest importance that it should have **perfect alignment, direct action, secure and durable connections,** and **no lost motion.**

It must be good. Ours is very good.

Nothing on a Mower is of greater importance than a good pitman. Our pitman is the **best that can be made.**

Our rod of **choice second growth hickory** is exceptionally long, all connecting parts are **steel.**

The substantial crank-box is **tough brass composition.**

Every part is carefully designed and **tooled to an accurate fit.** Such wear as may occur **can be taken up** and a close fit maintained until entirely worn out.

Important, but not often considered.

The length of Pitman, and **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.

The great length of our Pitman

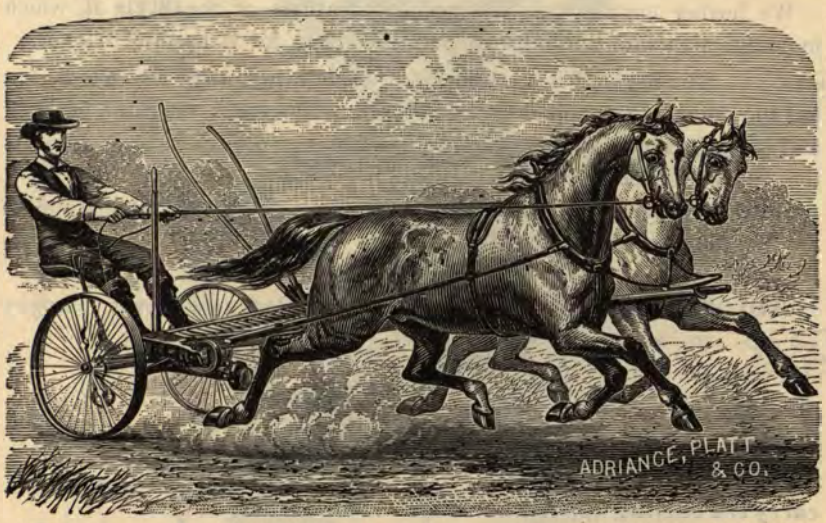
reduces the angle of action to the minimum; and the direction of crank

revolution makes the Pitman at its **greatest angle, tend to keep 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.

As the **Scythe Head** and its guide **become worn** the parts can be brought together to a proper fit by removing thin steel washers.

Light Draft is the result of the nearest approach to **perfection in plan and development.** We will not summarize the description of our Machine, the excellence of which in **every** respect results in the **lightest draft attained on any mower.**

Follows of course.



ADRIANCE BUCKEYE MOWER. BAR FOLDED OVER THE POLE.

On the Road: The Cutting Apparatus **folds over the Pole,** where it rests securely.

An unique feature.

No other mower compares with our **Buckeye** in the **readiness with which the Bar can be folded,** or in its **safety after it is folded,** and consequent **convenience** in going from place to place.

Material and Workmanship: All stock is selected and tested with care. Cold, or hot rolled steel, malleable, or grey iron, or wood, are each used **where they are the best material for the purpose.** We have **always** maintained the best reputation for workmanship and **challenge comparison.**

Just examine.

The Adriance Buckeye Mower, Style H.

Opinions differ.

This exceedingly popular Mower holds its place strongly, and continues to take preference, in some markets, over our later modeled Mowers.

The preceding description of our **Adriance Buckeye No. 8** covers also, in nearly all points, the **Style H.** Reference to the illustrations shows minor differences without change of principle; and it is not necessary to repeat the description of advantages over the machines of others, common to all our mowers.

We further explain only the **peculiar features** of the **Style H,** which in conjunction with those mentioned, have **won for it hosts of friends.**

Often desirable.

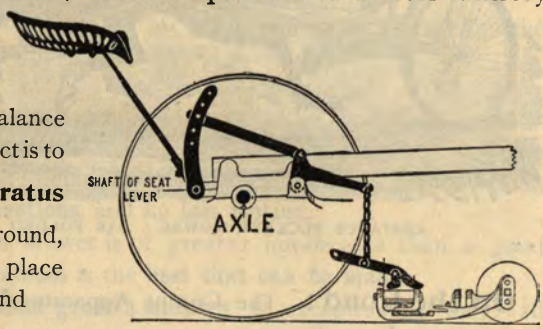
The **Style H** is a somewhat heavier Mower than the **No. 8,** but has the same cutting apparatus and system of hinging it, the same gearing, and is of the same general plan and proportions; though in some respects the details of construction are different.

Instead of the Spring to transfer weight from the Cutting Apparatus to the Machine, we use on the **H Mower** our

Automatic Balance, which is **equivalent** to a **lever** whereby

Patented and peculiar to our "H."

the weight of the driver, in the rear of the axle, is applied to counter-balance weight in front. The effect is to



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

See what it does.

utilize for power every pound of weight

except the little necessary 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

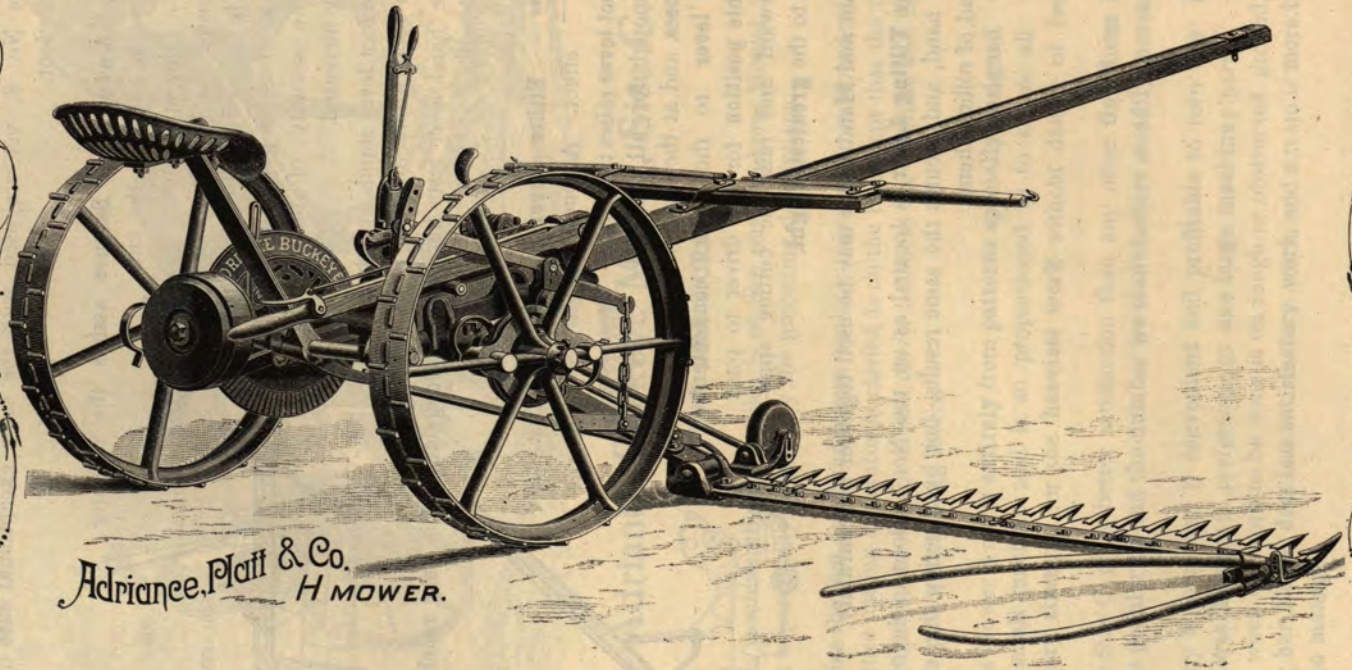
a lift of desired amount placed on the cutting apparatus.

The lifting force on the Bar is adjusted proportionately at inner and outer ends, so as not to interfere with the

closest cutting through hollows and ditches.

The Frame of the **H Mower** is constructed on the same tubular principle as that of the No. 8, but is without the roller bearings for the Axle. It is somewhat heavier and more strongly braced than the No. 8 frame, as the **H Mower** is used without our spring draft rod and the draft is always through the Pole and Frame.

ADRIANCE, PLATT & CO.



MOWERS & HARVESTERS.

ADRIANCE BUCKEYE MOWER, STYLE H, WITH AUTOMATIC BALANCE,

The Operating Levers on the **Style H** also differ from those on the No. 8, yet are used with the same **exceptional ease** by either hand or foot.

So very Easy. There is a Reason.

The **Automatic Balance assists** the operator in handling the cutting apparatus.

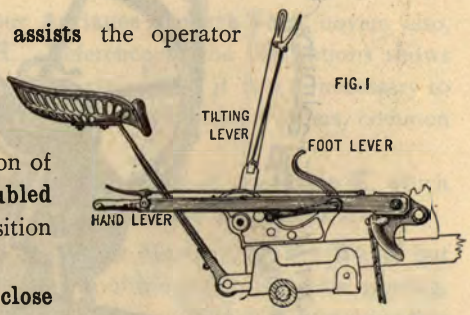


FIG. 1

In using the Foot Lever his force is exerted in the direction of the seat, thus his **power is doubled** and the security of his position greatly increased.

The foot lever stands upright **close to** his foot, where he can press it **instantly.**

The hand lever rests **horizontally alongside** within **easy reach** of his right hand.

For Quick Use. No danger of mistake.

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.**

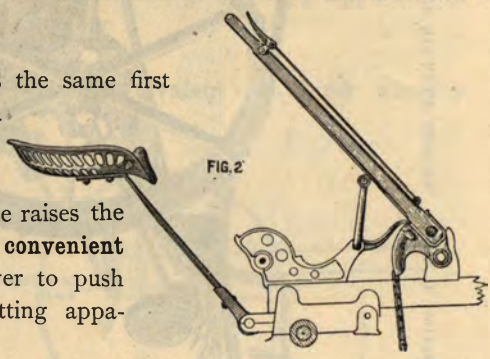


FIG. 2

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

The Tilting Lever is located as on the No. 8, close to the operator's right hand, and secures the same results, but by lowering the couplings instead of rolling them.

Adriance Buckeye Mower, Size C.

FOR ONE HORSE.

This machine, though smaller, is so like our two-horse Mower, Style H, that it is practically covered by the preceding descriptions.

It **has the foot and hand levers** working together or independently; and the entire cutting apparatus is carried as on the H, 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 large machine**; particularly when the work to be done is on rough or obstructed ground, where **a long bar Mower does less satisfactory work**, and a team is **more troublesome to manage.**

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.

Pl. 414 H.

In **Binders** we offer

A choice. **Two Standard Machines of Entirely Distinct Types.**

Our **Adriance Binder**
with a low revolving Elevator, delivering the bundle in the rear.

Our **Adriance Buckeye Binder**
with Canvas Elevator, delivering the bundle at the side

Our Adriance Binder

We have built for many years. Thoroughly protected by Patents, it still remains the **only** successful Binder without canvas Elevator.

It differs in Principle **from all others** in every respect, except in cutting the grain and reeling it on to a canvas apron moving over the platform.

The principles and methods of construction are unique and to be clearly understood the machine itself should be examined. The aim is to give

more satisfactory results by simpler methods.

The **Adriance** is the **most compact, lightest** and **handiest Binder made** and much **better adapted to the wants of a great number of farmers than any other type.**

This machine has secured, the world over, a very high reputation among the farmers, by **successfully meeting the most severe tests.**

It has won also **most numerous prizes** in the great **Government Trials of Europe** under the supervision of **Government Officers** and Committees.

An unbroken record. It won **highest award** at

every European State Trial, three years in succession.

For 1898 it is better than ever and **Roller Bearings** will add to the popularity it now has from its **lightness of Draft.**

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:

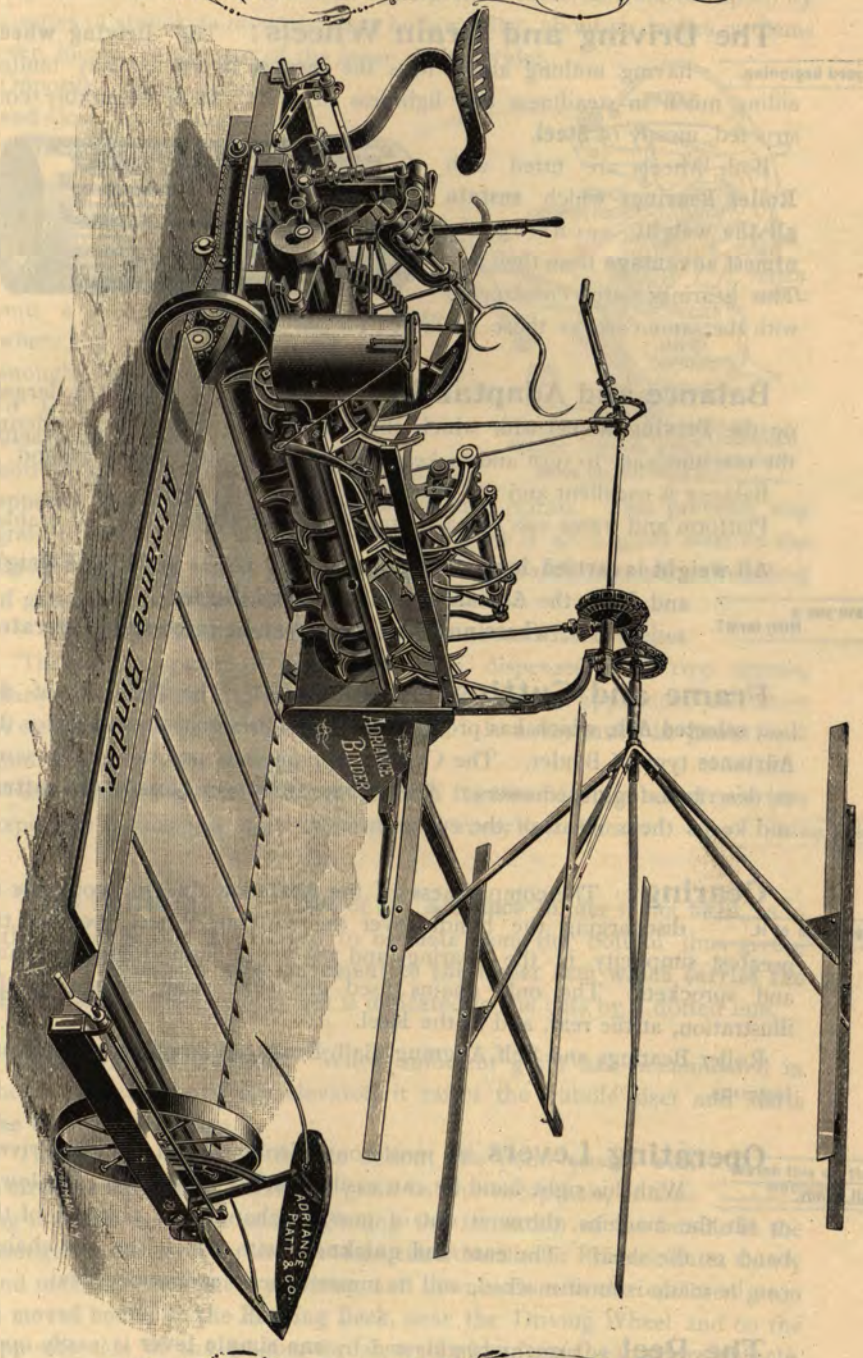
Great Capacity and Range of Work:

Adaptability for Side Hills:

Economy of Power: Economy of Twine:

Light Draft: Durability: Portability.

ADRIANCE, PLATT & CO.



THE ADRIANCE REAR DISCHARGE BINDER. THE MOST COMPACT BINDER MADE.

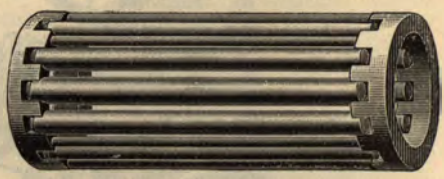
MOWERS & HARVESTERS.

Pl. 259 H.

The Adriance Binder.

The Driving and Grain Wheels: The **Driving wheel,** having nothing above it, is the **largest in use** on any binder, aiding much in steadiness and lightness of draft. It is admirably constructed, mostly of **Steel.**

A good beginning.



Both wheels are fitted with **Roller Bearings** which **sustain all the weight,** securing the **utmost advantage** from their use. The bearings are constructed with the same care as those described for our Mower.

Balance and Adaptability to Work: Weight is largely on the **Driving Wheel** with which the grain wheel is **in line;** rendering the machine easy to turn and to keep up to a full swath on any ground.

Balance is excellent and the machine is **easily** and **evenly** 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.**

Have you a Hilly farm?

Frame and Cutting Apparatus: The frame is of the best **selected Ash,** which has proven far more satisfactory than steel for the **Adriance** type of Binder. The Cutting Apparatus is practically the same as described for our mowers. The Apron runs very **close to the cutters** and keeps them clear of the cut grain.

Gearing: The compactness of the **Adriance,** due to avoidance of discharging the bundle over the Driving Wheel, permits the greatest simplicity in the gearing and the most limited use of chains and sprockets. The only chains used are very short, shown on the illustration, at the rear, and at the Reel.

Not much of it.

Roller Bearings and Self Aligning Ball Boxes are used where advantageous.

Operating Levers are most conveniently placed for the driver. With his right hand he can easily raise or lower the reel, lower or tilt the machine, throw it out of gear, or change the position of the band on the sheaf. The **ease and quickness** with which the last change can be made is most marked, and its importance is well understood.

All handy.

The Reel is large and light, and by **one simple lever** is easily operated to secure a good delivery of the grain to the Apron.

The Elevator on the **Adriance** is one of the most marked departures from other systems. The grain is received from the apron by a series of sprockets mounted on a hollow roller, about six inches in diameter, located in the rear of the inner grain divider.

First "Open-end."

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 through this throat into a receptacle above, where it remains until enough has accumulated to form a bundle. A **Clearance Roller** at the bottom of the throatway revolves in the **opposite direction** from the Sprockets and Apron. This prevents any grain from being carried downward and gives it all a good start up the throatway. The scrolls keep the sprockets constantly cleared, and winding of grain thereon is prevented.

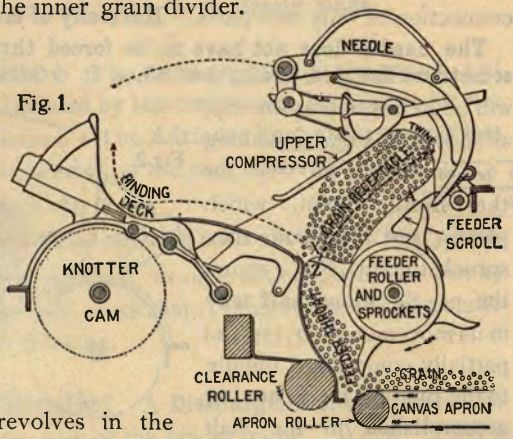


Fig. 1.

The elevation of grain is only about fifteen inches.

This simple system of limited elevation dispenses with two aprons, many rollers, butter and head board and many other appliances necessary in elevating grain over the driving wheel. It **saves much in power** and gains much in quiet working.

Our simple Adriance Elevator with its two bearings saves you **two** expensive aprons and other wearing parts every few years.

A big saving.

The Binder: The **Post** of the **Adriance Binder** is not **fixed,** as in other binders, but is arranged to oscillate from the bottom thus giving **a very considerable side movement to the upper arm which carries the Needle shaft.** This movement is indicated in the cuts by a dotted line.

Forming the Bundle: When sufficient grain has accumulated in the receptacle above the elevator, it raises the bundle sizer and starts the binder mechanism.

Watch this on the machine.

The Needle begins a **double** action; 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 Binder Post oscillates slowly and makes its **movement sidewise,** and the needle with the enclosed grain is **moved bodily to the Binding Deck,** near the Driving Wheel and on the opposite side of the feeding-throat, **well away from the grain receptacle.**

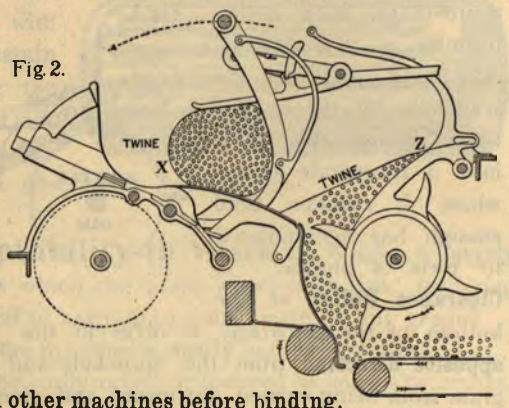
No interruption occurs in feeding the grain into the receptacle.

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, but when it 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, **having accomplished** in the half movement **about as much separation as is ever made on other machines before binding.**

A Passage Opened.

Fig. 2.



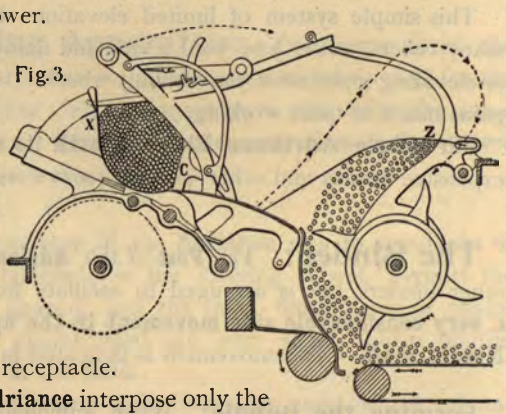
Compression and Tying take place while the Needle is relieved from work and backing away from the bundle, and the Discharger Fork at rest and using no power.

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 fully compressed and ready for tying.

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

Fig. 3.



Other Binders than the **Adriance** 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 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.**

A change of route.

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 to the greatest extent the danger of "choking" usually incident to that operation.

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.**

Most Economical of Twine.

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 many binders. The **Adriance knot also requires less twine,** and **none** is cut off and **wasted** in the end holder.

Tells on a big crop.

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

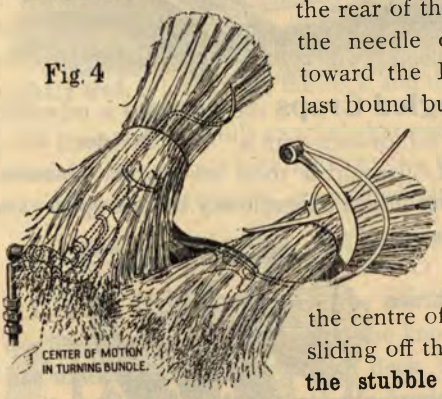
The band on a round bundle does not, as on a flat one, become loose as the bundle dries; and this, as well as its shape, renders our round bundle much better for shocking and stacking.

Rear Delivery of Bundle: A **Discharger Fork** is pivoted 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 swath.

Very Distinctive.

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, and the tines pass beneath the new bundle, ready to make another delivery.

The Bundle Carrier being hung at the rear has only to be lowered to deliver the bundles. It is very simple and is easily operated. A moderate additional charge is made for the carrier.

Useful Attachments.

Wind Guard: An adjustable wind guard is provided with each binder. It is hinged for turning out of the way when necessary.

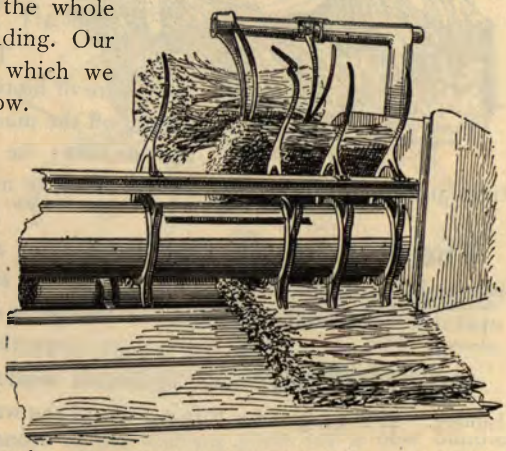
Great Capacity and Range of Work: So **small, light** and **simple** does the **Adriance** appear in comparison with other Binders that its **capacity for work** is always **astonishing.**

It is big enough.

Some of the **many advantages of the Adriance Binder** secured by the novel construction described, may be fully understood from description, but a just appreciation of **all its advantages** can be best secured by seeing the machine in the field.

Long, Heavy and Tangled Crops the **Adriance** is especially adapted to handle. It is furnished with a **"Rye Divider,"** which is easily attached to the regular divider and is most efficient in operation in such crops. The grain is **never forced through any limited space** and may overhang throughout the whole process of conveying and binding. Our **separation** is a feature to which we make special reference below.

It takes them all.



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 and scrolls are **grouped closely near the cutter bar** as shown in cut.

"It has no equal for handling any grain that grows," is the testimony of farmers who have used it in all crops.

Good authority.

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; every operation,** from the first, tends towards the final **perfect separation.**

This statement is easily understood to be an important **fact** by reference to the figures on pages 19 and 20 and the following description.

At the point A, on the feeder scrolls (see Fig. 1, page 19), 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 20.

Peculiar to the Adriance.

Final Separation and the beginning of the discharge is shown by Fig. 4, page 21. 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 the tangled grain slowly apart, as by hand.

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

No chance for Gleaners.

Clean Delivery: On the **Adriance** the discharge of the 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.

Saves everywhere.

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

It is considerable.

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

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

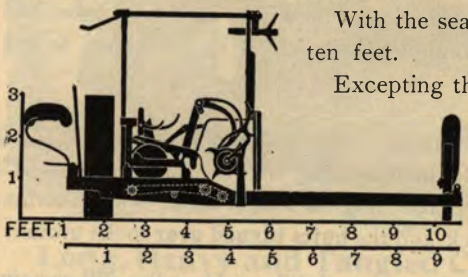
By **any other** than the **Adriance system,** after making a bundle, the knot must be tied, the needle returned to starting position, and the bundle delivered before any grain can be placed for another bundle. This **necessitates the most rapid possible movement of the mechanism,** which requires greater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

Saving in Speed.

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

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

Notice the figures.



With the seat in place it is only 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.

Does More Work: 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.

Light Draft: The **great economy of power, light weight,** use of a **large driving wheel, roller bearings,** and the perfect balance secure **so light a draft** that the

Saves a horse.

Adriance is as easily handled by two horses as any other Binder is by three.

Comfort for Operator: On the **Adriance** the driver has a comfortable, safe seat, and he can step directly to the ground. His team is within easy reach, and every operation of the machine is **in sight** and **easily controlled.** The needle is easily threaded; every leader for the twine is in plain sight and easy to reach.

Durability: Our Binder is constructed with our usual great care and in selection of **material** and in workmanship.

Last, but not least.

It is not, however, owing to careful construction only, but to the **simplicity** of the **Adriance,** the **slow movement** of working parts, and **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 Buckeye Binder,

An Apron Elevator Machine

Strictly **up-to-date** in every particular, Not 1897 but 1898.

Design, Material and **Construction.**

With all the niceties of **convenience** and **adaptability** to the wants of the farmer which our experience, from the beginning of the Harvesting Machinery business, has taught us to secure.

Without anything that is "trappy" uncertain, or only "to talk about."

Has our **"Straight Away" Binding Attachment,** Surest and Simplest

Simple Knotter and other **special features.**

Though we place the **Adriance Buckeye Binder** in our Catalogue for the first time this season we shall describe it, as we do our other machines, but briefly.

We call attention to various points of **superior merit** as suggestions to the careful purchaser, that he may the more critically and intelligently **examine the machine itself.** Better than Pictures.

No number of detail illustrations can convey to him so **comprehensive** an idea of the perfection of the complete machine and of its ability to cope with the difficulties of the Harvest field.

All of this type of Binders **appear** much alike yet there are **differences worthy of careful study** as the machines **do not all work alike.**

Our Binder is designed to do the

best work under all varying conditions. What it is for.

The construction is almost wholly of **Steel** and **Malleable Iron,** but for each member is selected that material known to be the **best for the purpose.**

The **Adriance Buckeye Binder** is **very compact** and though **light,** will be found to have embodied by scientific construction the

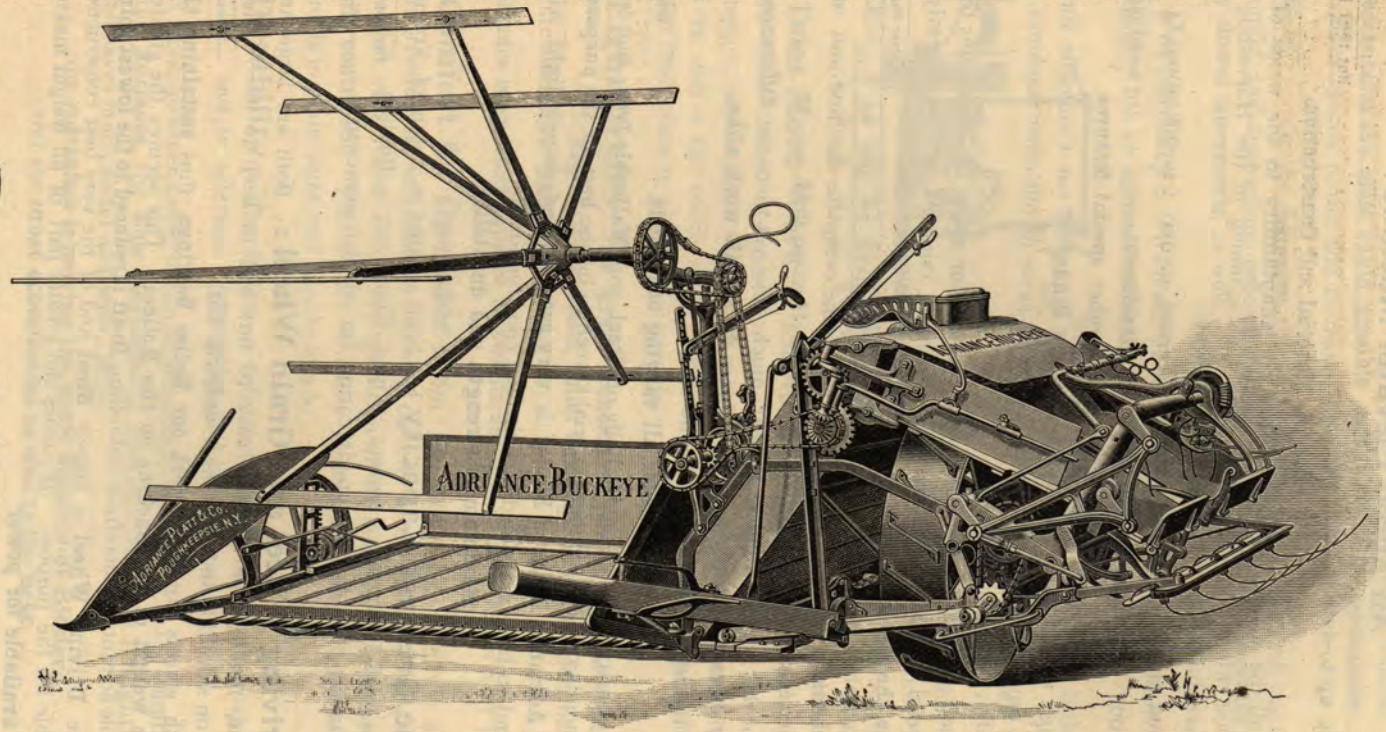
maximum of strength and durability.

The Greatest Capacity has been secured in depth of Frame, Aprons, and Elevators, a perfect "Open End" and a Binding Attachment capable of properly caring for all that comes to it. For any grain that grows.

Driving Wheel and Grain Wheel : Both are large and **in line,** making the machine easy to turn and to keep to its work on side hills and securing a **uniform tilt.** Helps team and driver.

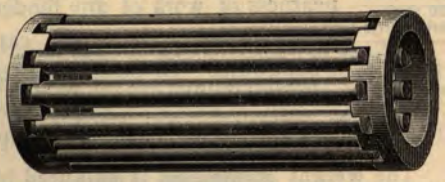
Both wheels are **fitted with our Roller Bearings,** thus **sustaining the entire weight of the machine on the Rollers.** This secures the greatest possible advantage therefrom and rolling **Draft is reduced to the lowest point.**

The **Driving Wheel** is largely **Steel** and of the very best construction possible for the purpose. It carries the greater part of all weight making it all **available for power**



THE ADRIANCE BUCKEYE "STRAIGHT AWAY" BINDER.

Our Roller Bearings are similar to those described for our Mowers. The Best.



A rigid cage to retain the rollers in line, **leaving each perfect freedom to roll without friction.**

Every complete bearing is carefully adapted in size to the shaft with which it is used, that the best results may be secured.

The Main Chain is kept **always evenly taut** by a **self acting roller** which swings from the **same center as the chain pinion,** and is automatically controlled by any movement of the frame. No slack or lost motion.

The Steel Frames are **forged with turned corners** to avoid splices. The main and platform frames are forged to join and, though no brackets are interposed, the main frame is well above the ground even when cutting the closest stubble. Carries gearing clear of dirt.

Where brackets for other parts are attached to the frame they are formed to increase the stiffness.

Double diagonal bracing holds both frames rigidly in line.

A **steel support** is provided for the Upper Elevator, Reel and Driver's Seat.

Cutting Apparatus and Platform: Our cutting apparatus is up to our ever high standard. The Pitman is long, has direct action and is well protected. The guard fingers and bottom of finger bar and platform are designed to secure the very **closest cut,** without dragging or undue tilt. The platform bottom is of **sheet steel** protected by **steel girts.** The Platform may be raised or lowered through the greatest range of cut **by means of Cranks** at each wheel, and the cut further changed, while in motion, by use of the Tilter. Much the Same described for Mower. Easily too.

Gearing, Shafting, Etc. is carried well clear of the ground. Gearing, or Chains and Sprockets are used as best for the purpose in view. The plan of the machine is such as to reduce the amount of both to the minimum and to the simplest forms. The result is an astonishing simplicity in this respect. We select according to use.

Shafts are **Steel** and revolve in **Roller Bearings** and **self aligning ball journals** wherever their use is advantageous. No cramping in bearings.

The apron rollers are driven from the rear end of the crank shaft and the packers and binder, as well as the scythe, from the front end.

A separate short chain drives the packers, thus wear and strain is distributed. The Elevator chain, particularly, is relieved from a great amount of work which is thrown upon it as used by others.

Oil Cups are supplied with spring covers to exclude chaff and dirt.

The Reel: On the proper handling of this feature much of the neatness of work of any binder depends.

You can do your part easily.

We provide a large reel, capable of adjustment up or down, forward or backward. Its base is located firmly on the front of the steel seat support and its post is broadly hinged. Gears or Sprockets are on the hinge centers and do not in the least impair free operation of the levers.

The **weight of the reel is balanced** by a spring concealed in the post. **One Convenient Lever** operates the Reel for every movement, so there is nothing to confuse or hinder the driver in its **instant adjustment** for the best delivery of the grain to the apron.

So simple and so easy.

The Apron runs very close to the cutters, keeping them clear of the cut grain butts and with proper use of the reel the very best delivery can be made to the Elevator.

The Elevator, One of the most important features of this type of machine, is very capacious. It extends forward in **advance of the scythe** and both lower and upper aprons are **very deep.**

Gets all the grain.

The Aprons are made of heavy duck; the slats are well attached by rivets and flat staples closely driven. The edges of the aprons where most subject to wear are protected at each slat by a piece of leather. Billet and buckle straps are of good sound leather and well affixed.

All the rollers are large and protected from winding at the ends.

A particularly **big throat roller** feeds most positively and in giving the grain a good start up the elevator is notably superior to the small rollers particularly in grain which is dry or fluffy.

Carries all the grain.

The Aprons are sufficiently close together to **carry up the lightest grain** in continuous flow, and have expansion space to **take up the heaviest grain** just the same.

A **clearance Roller** at the top conveys the grain **over to the packers.** The table is well inclined so as not to retard free flow of grain.

Delivers all the grain

Clogging anywhere would appear impossible.

The whole Elevator is lightly constructed, but firmly supported and braced, and tied with steel rods. The upper section is supported at the rear by the steel seat bar.

Head Board and Butter Board: The Head Board or adjuster may be set to the desired angle and pressure and, as it **moves with the Binder,** it is always where you want it without constant attention.

Secure a continuous flow.

The **Butter Board is independent of the Binder.** Hung to catch the butts properly its angle is easily adjusted by the driver in his seat, to do the most effective work according to the grain.

Binder: Our "**Straight Away**" drive dispenses with all the Gears, Chains, Sprockets, Cams, Levers and Spring so familiar at the front of other binders. Recall the old kind.

The work of these well known complicated mechanisms, as used by others, is done on the **Adriance Buckeye** by the simple device here illustrated; which has naturally given the name "straight away" to our Binder. Patent applied for.

Working from the driving shaft

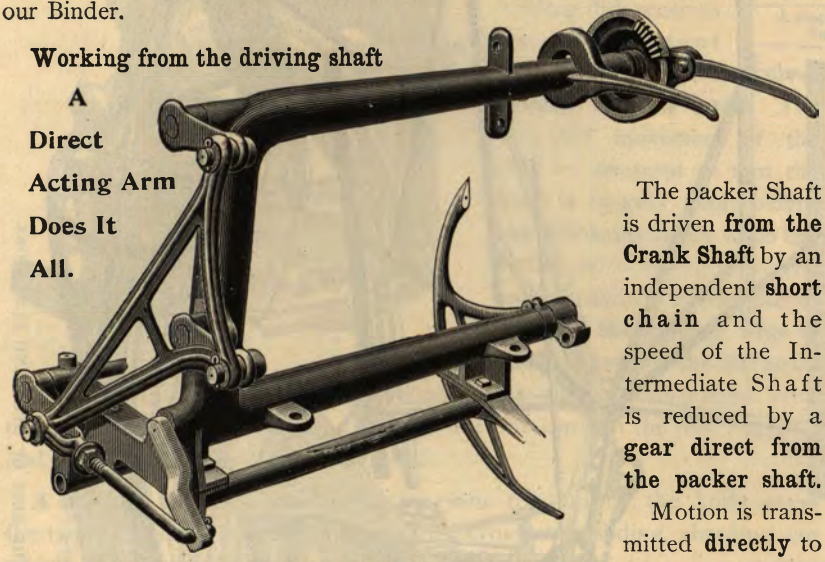
A

Direct

Acting Arm

Does It

All.



The packer Shaft is driven **from the Crank Shaft** by an independent **short chain** and the speed of the Intermediate Shaft is reduced by a **gear direct from the packer shaft.** Motion is transmitted **directly** to the Knotter and Needle shafts by the crank movement and concurrence of action is certain.

The Knotter Shaft and Knotter are the closest to the top of the bundle. We use a long table trip, reliable in action. Close tying.

Examine our **Simplest of Compressors,** with relief spring directly under it; and a lock, like the Compressor, free of forward connection and controlling cam.

The top of the Compressor is close to the breast plate when forming a bundle, and the **bundle is held snug and round by the compressing parts until fully bound.** There is **no undue strain on the twine** which is placed in the compression crease securing a tight round bundle and the **greatest economy** of twine in encircling it. Best shaped Bundle. Saves twine.

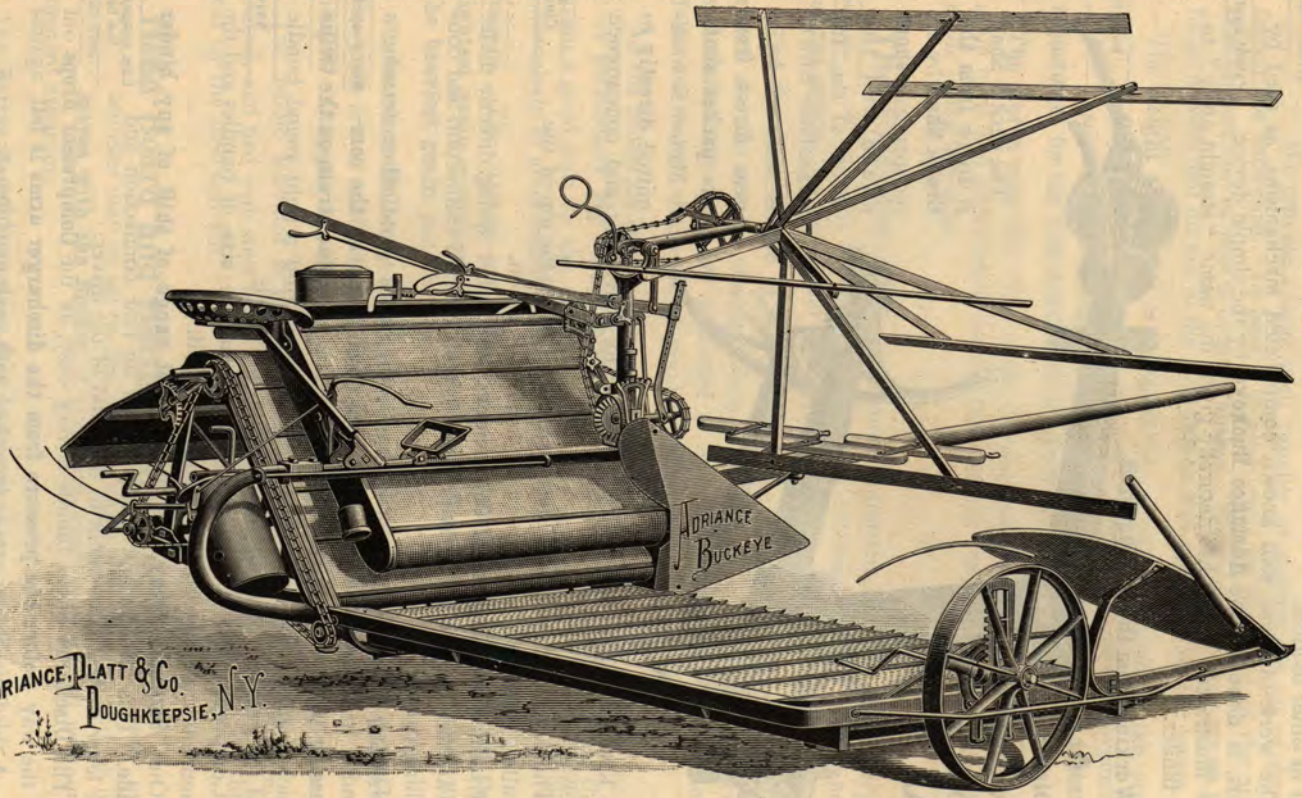
Compressor and Trip are adjustable and the **size** of bundles and the amount of compression are easily regulated.

Our "**Straight Away**" has the **greatest range of shift of any binder made.** It is directly and easily moved by rear connection and the lever is most convenient to the hand of the driver. Can properly place the band.

The **Discharge** of the bundle is very easy, as the **Compressor drops** out of the way **before the pressure from the discharger arms is felt** against it. A third discharger arm is furnished with each machine.

The bundle stripper extension of the breast plate is free to turn if it is struck by any object and is returned to place by the discharger arm. Takes care of itself.

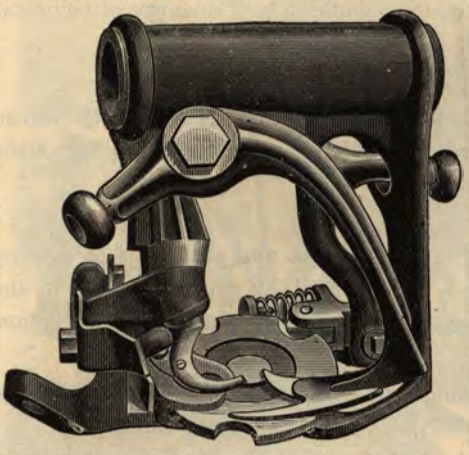
MOWERS & HARVESTERS.



ADRIANCE, PLATT & CO.

ADRIANCE BUCKEYE BINDER, THE BEST OF OPEN END ELEVATORS.

Our Knotter though **very simple** has, as arranged by us, every part necessary for **sure work.** Patent applied for.



This illustration is **not** from the **front,** from which much is hidden, but from the **back.**

You see it all. The single holding disk receives the twine distant from the bill hook and **revolves toward the bill hook.** The size and movement of the disk are arranged so that the **knot is largely made before the disk holds firmly on to the twine** and is finished from the twine yielded **by the movement of the holding edge of the disk toward the bill hook.** A most notable feature.

Thus all the ordinary swinging disk frame parts are dispensed with, closer tying is secured and the pulling of twine through the disk and its shoe, with its troubles avoided. Saves many a break of twine.

A hook on the disk shoe holds the twine for cutting; the knife severs the twine closely, cleanly and easily and avoids the sliding, abrading cut which on other knotters destroys its edge. Saves many a sharpening.

The least possible twine is used in the knot.

Should adjustments of the Knotter ever become necessary the devices for making them are most simple and accessible.

Threading of the needle is **readily done,** leaders are easily reached from the end of or through an opening in the deck.

Balance: The plan of the **Adriance Buckeye** has been so carefully made that not only are we able to secure the advantages of having the carrying wheels in line, but therewith a perfect balance. Always satisfactory.

The Binder Attachment is so hung that all its weight, as well as that of the Harvester parts, is about the level of the driving wheel axle or below. Therefore neither the shifting of the Binder, even with its exceptional range of movement, nor tilting of the platform materially affects the balance.

Operating Levers: Each one is conveniently arranged for the use of the driver in his seat, for **full control** of the machine **with the least effort.** One lever gives all the motions to the reel; the tilting lever is very long, direct acting and very quickly used. Could not be better.

The Driver's Seat is fixed securely on a steel support only a short step up from the rear sill, yet from it the driver can see everything and operate the machine most successfully. The twine-can is near, and through openings in it, the condition and quantity of twine can be seen. The seat is adjustable to suit the driver.

Where it should be.

The Wind Guard is supported at both ends, has a long adjustment and is moved by the driver's foot. It is hinged to turn up out of the way, or is easily removed.

The Bundle Carrier is of the **most approved** type, downward and rearwardly swinging fingers. Is operated by the driver's foot and gives a sure delivery. Takes care of itself when run against an obstruction.

An Extra Divider for long and tangled grain, the same as that of the **Adriance Binder,** is furnished with each **Adriance Buckeye.** This is recognized as the **best device of the kind** and **it is most successful** in difficult work.

Well known.

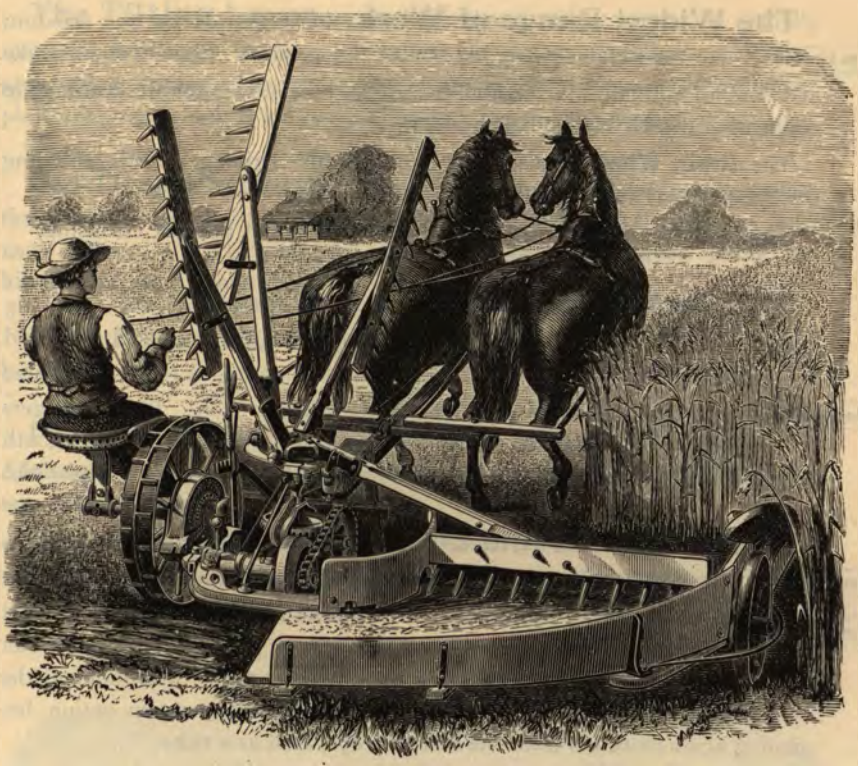
The Draft of the **Adriance Buckeye is easy for two horses** under ordinary conditions. A three horse rig is provided with each machine which the owner can easily attach when desirable. Either draft rig is so attached that there is **no side draft.**

The Transport consists of two wheels, and two short axles which easily clamp to the main frame; and a draft bar for the pole, which is attached to the platform without removing the apron.

Simplest yet.

The wheels are large, with a broad tread; both most desirable features when transporting the Binder on either rough or soft land.

Flax Attachment: For harvesting Flax, Clover and Barley if desired, without binding; we furnish at small expense, an attachment to take the place of the Binder. It is simple, easily attached and operated and does the work required in a satisfactory manner.



The Adriance Reaper

Was 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; and under these conditions won its reputation as the **Best of all Reapers.**

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

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

A Firm Foundation.

The Solid Frame, peculiar to the **Adriance,** supports 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 is rigidly supported by the frame well back from the Finger-Bar. It is carried steadily and 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 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.

Goes to all lengths.

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 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.**

Just as you please.

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

You can get it.

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 or diminished as peculiarity of team or of crop may require.

this is unusual.

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 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.**

Greatly assists.

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.

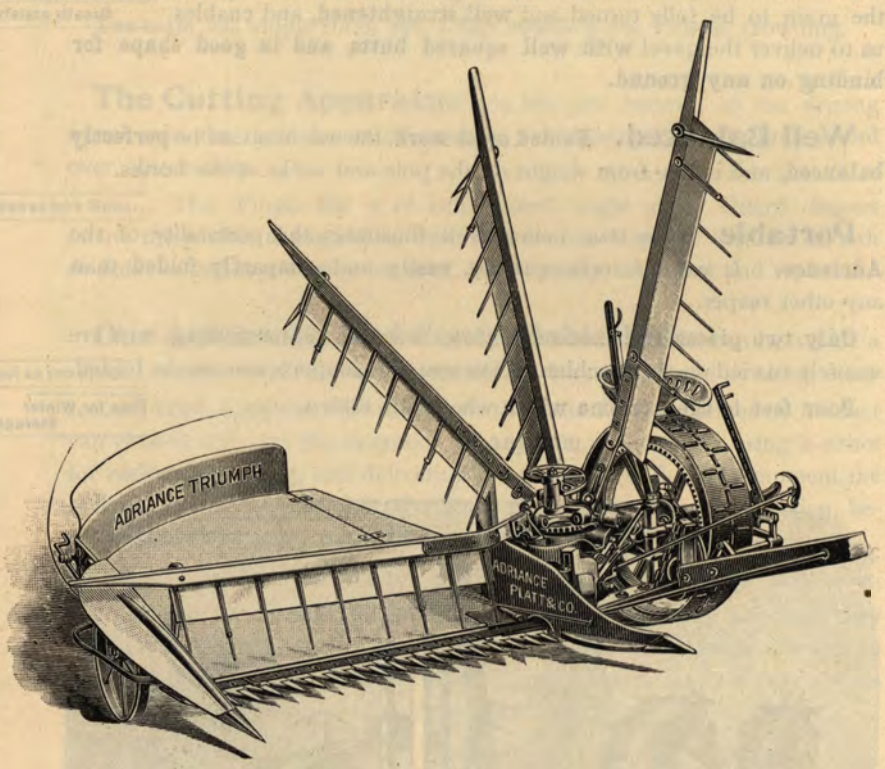
Four feet is the extreme width when fully folded.

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 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 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.

A good beginning.

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 Platform has as its foundation a strong Ash Bar to which the Angle Steel Finger Bar and the platform girts are fixed. — A secure one.

The Bar is extended as a support for the Rake and as a means of connecting the Cutting Apparatus and Frame.

The end of the Ash Bar is joined to the lower end of a perpendicular steel post which is held in bearings on the frame. The up and down movement of the post carries with it the cutting apparatus, and provides for a **great range in the height of cut.** This movement is 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 platform post 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 **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 34, 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 35.

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.

Adriance Buckeye Mowers:

No. 8, Geared and No. 7, Chain Drive,
4 feet 6 inch, 5 feet or 6 feet Cut.

Style H, Automatic Balance,
4 ft. 3 in., 4 ft. 6 in., 5 ft. or 6 ft. Cut.

Style C, For one horse,
3 feet 6 inch, or 4 feet Cut.

Binders:

Adriance, Rear Discharge,
5 feet or 6 feet Cut.

Adriance Buckeye, Canvas Elevator,
6 feet Cut.

Reapers:

Adriance, 5 feet Cut.
Adriance Triumph, 5 feet Cut.

Repairs.

Take Care.

Convenience and Certainty of procuring fixtures for repairs are 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.

Beware.

Do not purchase **imitations** of our Knife Sections, Guard Fingers, 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.
Don't overlook next page and inside of back cover.

The Adriance Plymouth 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, and the **"Plymouth Sheaf."**

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 such 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.

A. P. & CO. T.

ADRIANCE, PLATT & CO.

Don't Overlook the Fact That

Rakes Harrows Rollers

Are **all in our line.** For each we issue **special illustrated pamphlets** giving full description and pointing out their **merits and advantages.**

The New Yorker Sulky Rake.

Full of good points. Made in **various sizes.**

The Adriance Buckeye Spring Tooth Harrow.

On Wheels, with **Self Setting Levers** and **Seat.**

Leads all Spring Tooth Harrows.

The Lean Peg Tooth Lever Harrow.

All Steel. The **Best** and the **Strongest.**

The New Yorker Disk Harrow.

The Simplest and Most Durable.

Land Rollers.

Steel Drum. **Oak Stave.**

Various Sizes and Weights.

Send for the Special Circular of any that you want.

Pl. 411 H.

MOWERS, REAPERS AND BINDERS.

ADRIANCE, PLATT & CO.

POUGHKEEPSIE, NEW YORK.

U.S.A.