ENGLISH EDITION.

McCORMICK

HARVESTING MACHINE CO.

CHICAGO U.S.A.

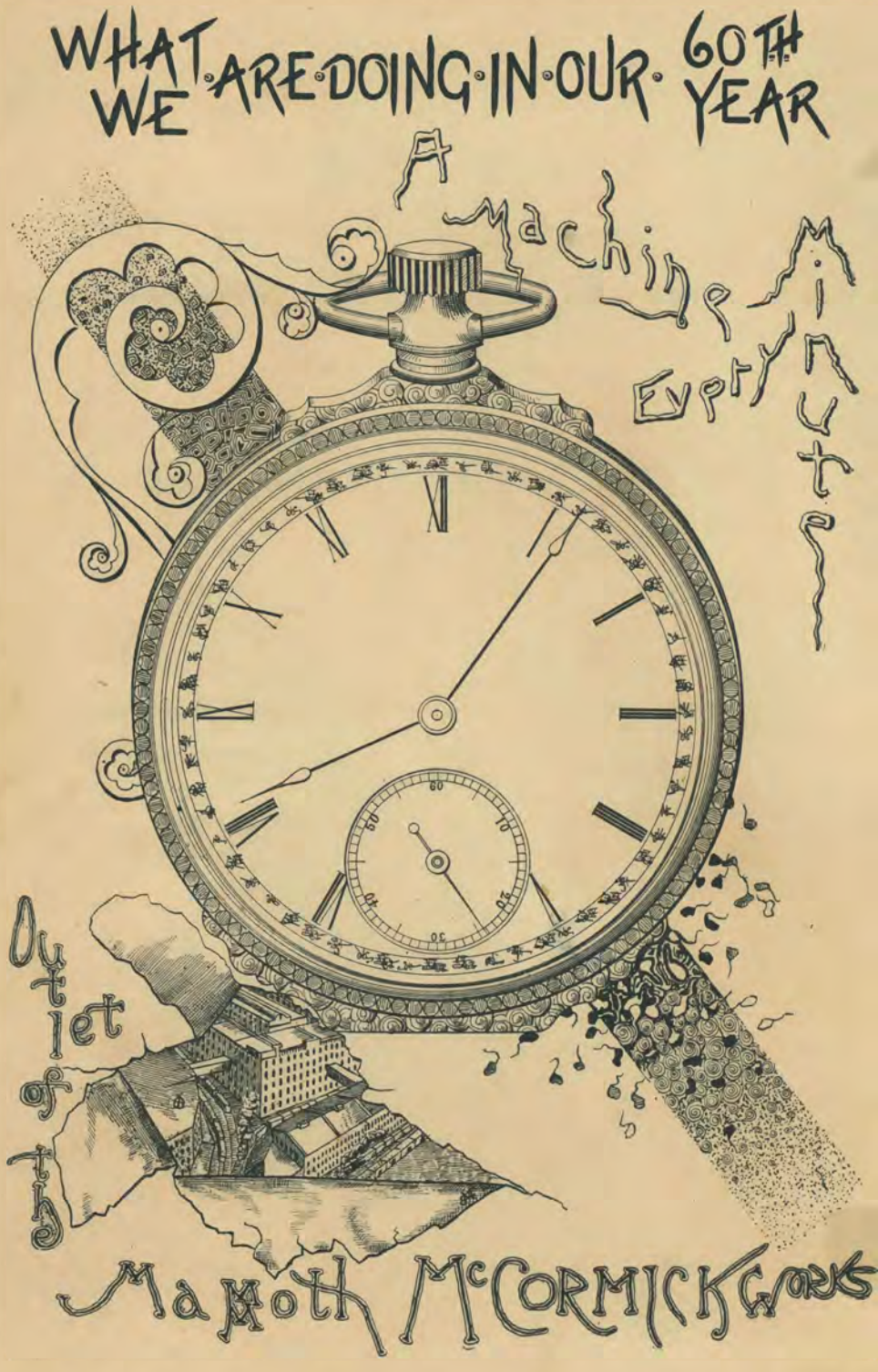
THE MILWAUKEE LITHO. & ENGR. CO. CHICAGO.

McCormick
Farm Equipment - 3.00

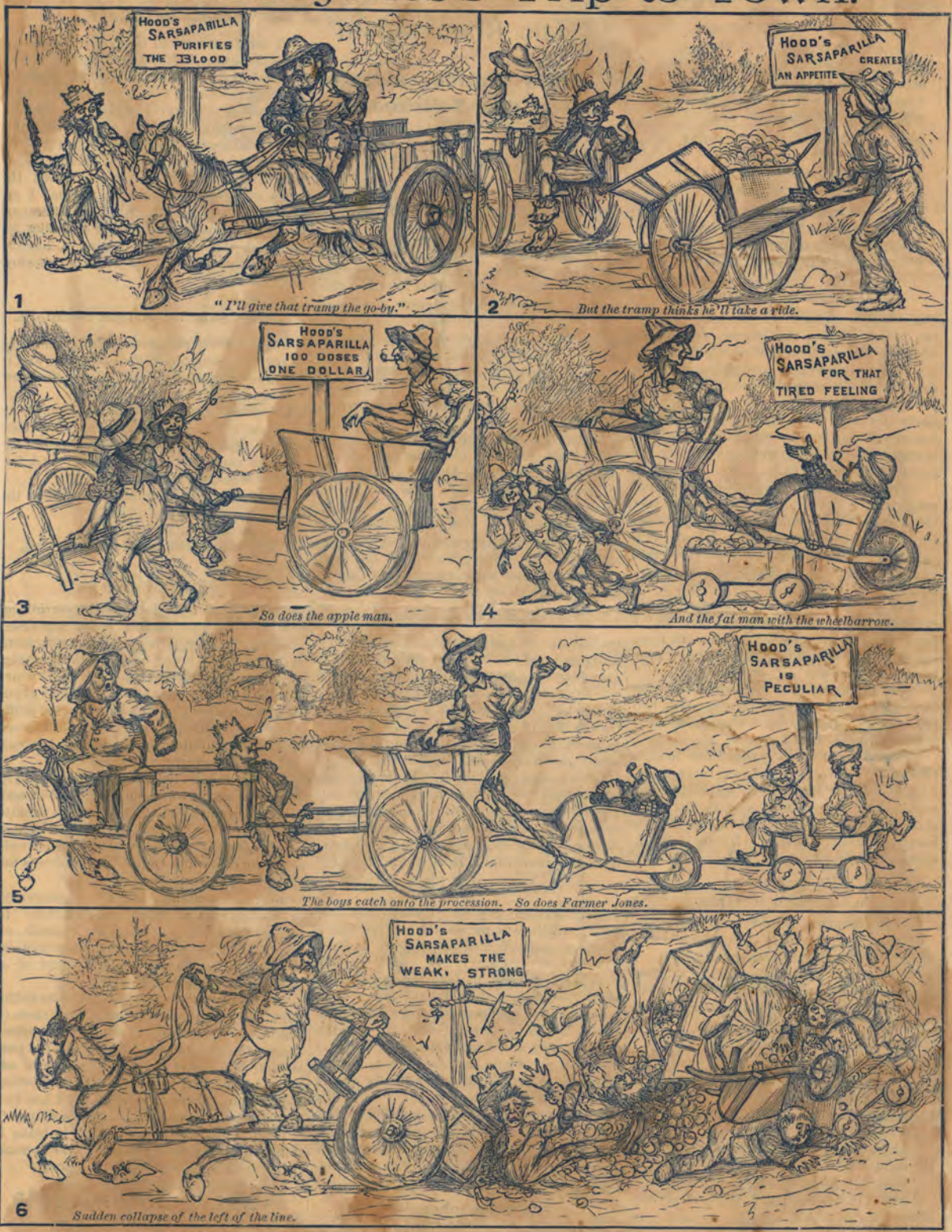
. . 1831 . .

. . 1891 . .

PRINTED AND BOUND BY
DONOHUE & HENNEBERRY,
CHICAGO.


WHAT WE ARE DOING IN OUR 60TH YEAR
A Machine Every Minute
Output of the
Mammoth McCORMICK Works

Farmer Jones's Trip to Town.



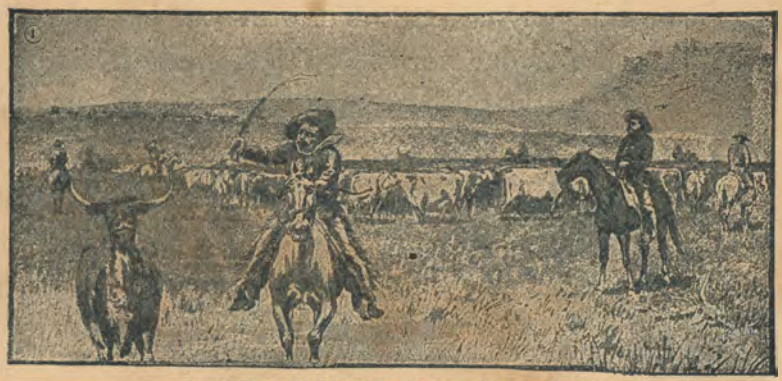
When it comes to actual trials, the McCormick is ever ready, and has won more trials, all around the world, than all other machines combined. The honors of 1890 were for the McCormick. Others sought to win

. . . THE . . .
GRAND : PRIZE
OF THE YEAR,

. . THE GOLD . .
Staats Medaille,
OFFERED BY THE VIENNA EXPOSITION.

but it was awarded to the McCormick "Machine of Steel," whose many points of superiority were promptly recognized after a thorough test and comparison. Thus it is everywhere, always was and always will be. The McCormick ever leads and last year won hundreds of medals in addition to that awarded by the Vienna Exposition—the World's Fair of 1890.

In passing, a word should be spoken regarding the stability and permanence of the McCormick headquarters when they have once been established. They are not spasmodically in a town one year and out of it the next. McCormick agencies are recognized places of business, and, in fact, are located only with the idea that they are to remain. Company after company has sprung up within the past forty years and built alleged harvesting machines with their respective names emblazoned thereon, but where are they to-day? Nine out of every ten have suspended operations, and the buyers of their machines have had to throw them away after a season's use, perchance, because repairs could not be obtained. But the farmers of the world are learning. They are pinning their faith to the McCormick — the reliable, the known, the permanent, the ever conquering



A CATTLE ROUND-UP IN NORTHERN IDAHO.
(See scene on next page five years later.)

McCormick, whose promoters have a reputation gained at great cost, not only for honest machines but honest dealing, the outgrowth of a half-century's business transactions with all people. This is guaranteed to all who buy a McCormick; the result of long years of endeavor will not be carlessly thrown away.

. . A Wheat
. . Blockade
. . in the
. North=
*West.
. . .
.

That the McCormick has been no unimportant factor in promoting civilization and developing the resources of the land, is recognized by all who watch history as it is making. Only a few short years ago the far Western plains afforded a field for the operations of the cow-boy alone, but with the advent of the McCormick the

THE ADVENT OF THE McCORMICK AND THE RAILROAD, MAKES BIG CHANGES IN A COUNTRY.

IN ARKANSAW.

Mr. McGinnis, the new hired man from the east, thinks he has never seen such a vicious cow since his arrival in America.

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Co.

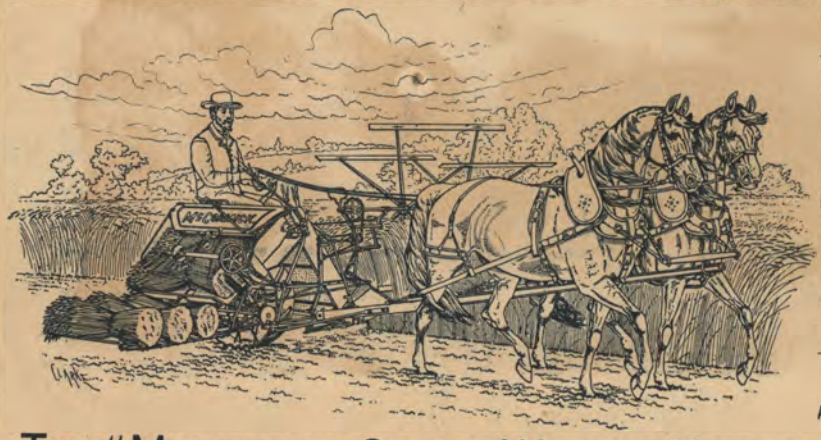
CHICAGO, U. S. A., JANUARY, 1891.

The Light Harvester All Admit Marks A New Era

McCORMICK'S NEW WAY

THE OLD WAY.

THE McCORMICK "MACHINE OF STEEL" is the beginning of a new era in Self-Binding Harvesters. The old machines, clumsily hewn from wood, or perchance with a frame of metal poorly adapted to its purpose, have been heavy, homely, ramshackly structures. In the building of the "Machine of Steel" it was seen that the common forms in which steel had been rolled were not such as were the best adapted to the construction of harvesters. New forms were originated, their strength scientifically calculated, the rolling mills called on to get them out, each for its special place and to withstand its peculiar strain, and the "Machine of Steel" is the result—lighter, stronger, more durable and better adapted to its work than any ever built. It is the handsomest of machines, one that there will be a pleasure in running and a pride in owning.



THE "MACHINE OF STEEL," WORLD'S VICTOR.

HISTORY TELLS OF NO OTHER MACHINE WITH SUCH IMMENSE DEMAND AND SALE.

AN OLD PROVERB—
The Best is already more than half sold.

4720 lbs. hook broke no effect machine is soon played out

At the Tank.

I love to stand beside the pump,
When summer days are long,
And watch the horses wander up
From out the pasture's throng,—
And then to see them gather round
The water-tank's cool brink,
While they, in sweet contentment, there,
Just think,
And wink,
And drink.

A GOOD PLAN IS THE FIRST THING IN BUILDING A HOUSE.

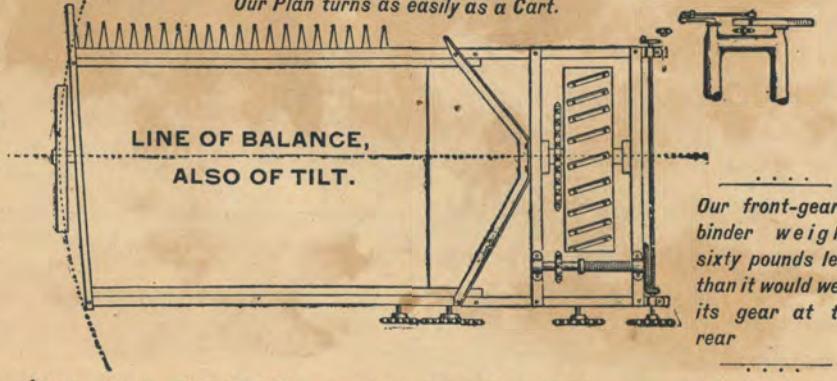
A good plan is even more important in building a harvester. Some houses we see are not well planned, as additions here and there have been patched onto the main part until the whole is lop-sided and ill-shaped; and so it is with harvesters that have from time to time been added to with attachments and parts. The McCormick "Machine of Steel" is a modern structure, built to plan—entirely new in every part. The wheels are on a line and this line is parallel with the machine. It is also the line of balance and tilt.

THE RIGHT BUILD

Wheels on the same line.

Both ends tilt with the same pitch.

Our Plan turns as easily as a Cart.



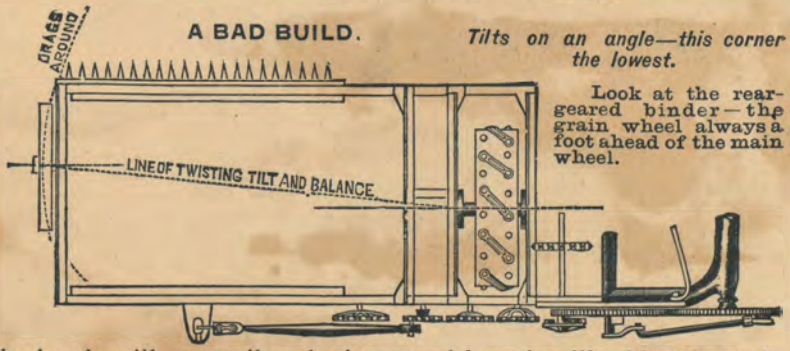
Our front-geared binder weighs sixty pounds less than it would were its gear at the rear

In order to show more clearly the superiority of a harvester with the right build over one with a wrong build, the cut below is produced. The main wheel is set in the rear of the frame, and the grain wheel, to keep the corner of the cutter-bar from sagging, is set forward so that a twisting tilt and balance is given the machine.

The binder frame is in the rear for the heads to beat and clog against. The front is the place for the gear, as the butts may pound all they please, the grain being in the other end of the stalk. If the binder frame is made long enough so that the heads will not strike, the increased length will add at least 60 pounds to the weight of the machine.

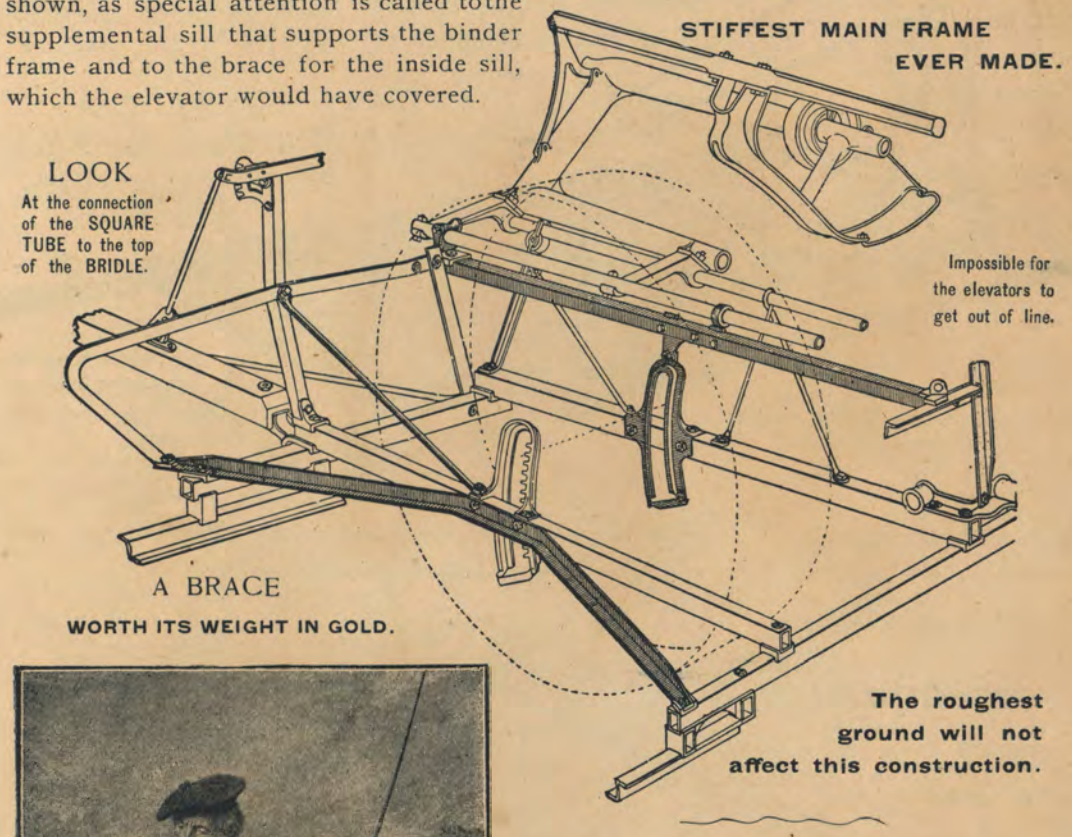
A BAD BUILD.

Tilts on an angle—this corner the lowest.



Look at the rear-geared binder—the grain wheel always a foot ahead of the main wheel.

McCORMICK DID NOT STOP HIS PLAN AT THE FOUNDATION. A modern machine in every part was mapped out. Examine this drawing of the frame of the "Machine of Steel" and suggest if possible how it could be improved. The elevator posts and sides which aid in bracing the structure are not shown, as special attention is called to the supplemental sill that supports the binder frame and to the brace for the inside sill, which the elevator would have covered.



Fishing.

Steady, Johnny, steady, now;
Don't begin to worry—
Many prizes might we win
But for needless hurry.
All thro' life remember, that,
Tho' eager be thy wish,
Patience ofttimes is required
To land the biggest fish.

The draft on a machine is from one corner. The other, moving against the grain, tends to shut the frame together, as it were, and twist it out of true. Examine the frame joint on page 7 and look at the brace in the above drawing. There is no danger of the "Machine of Steel" ever shutting up.

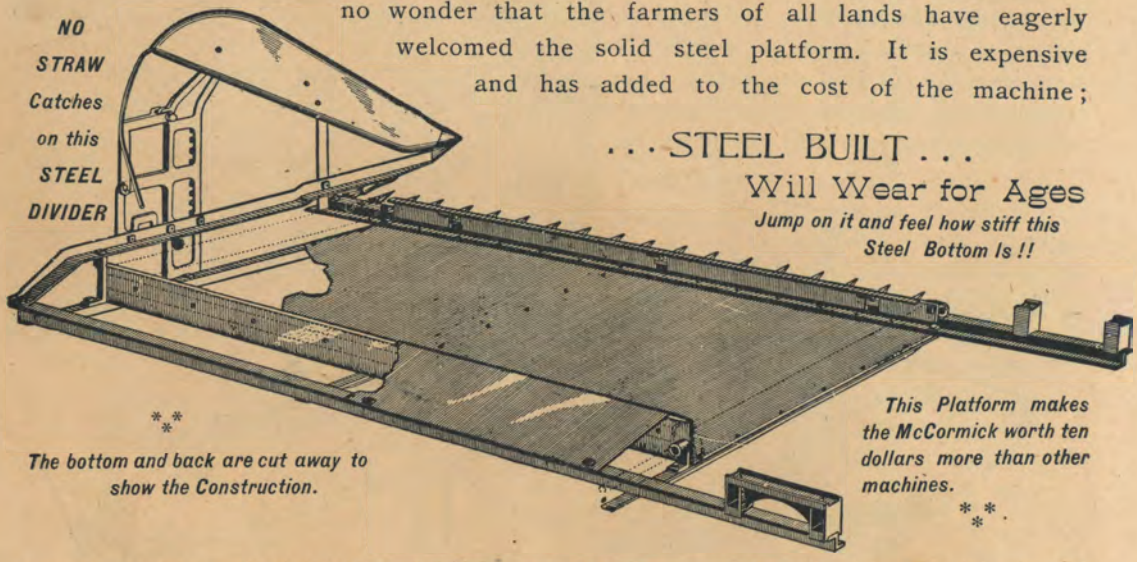
There is another bad feature with all other harvesters, viz.: the lurching forward of the elevator, which causes the aprons to run poorly. The binder hung to the top of the elevator has been the prime cause of the trouble. Take notice from the drawing that the binder is hung on the supplemental sill which is firmly bolted to the top of the bridle casting. First-class Mechanical Engineers pronounce this the only safe construction for a harvester.

THIS STEEL PLATFORM, USED ONLY ON THE McCORMICK, is a progressive step of importance in building harvesters. Remembering the swelling, kinking, rotting wooden bottoms of their old machines, it is no wonder that the farmers of all lands have eagerly welcomed the solid steel platform. It is expensive and has added to the cost of the machine;

NO STRAW Catches on this STEEL DIVIDER

. . . STEEL BUILT . . .
Will Wear for Ages

Jump on it and feel how stiff this Steel Bottom Is !!



* * *

The bottom and back are cut away to show the Construction.

This Platform makes the McCormick worth ten dollars more than other machines.

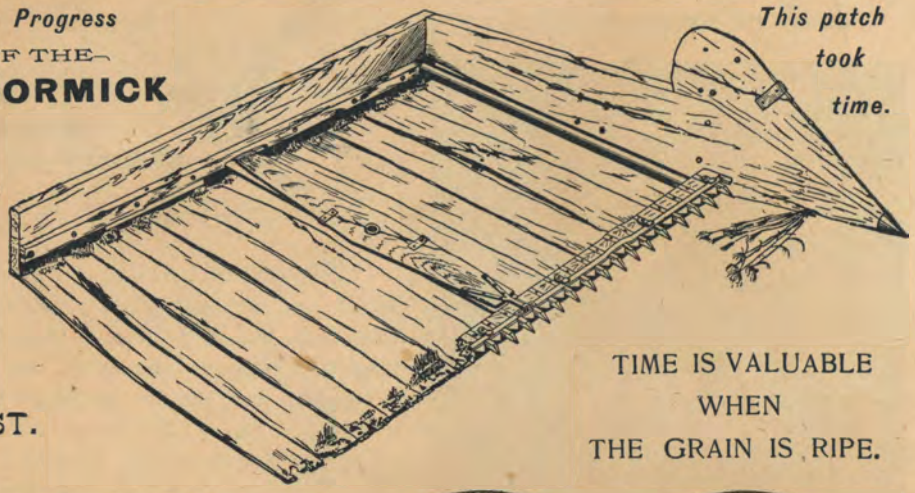
* * *

but the builders of the McCormick have a pride in presenting the latest and best, and cost does not prevent their adopting all the modern improvements.

The Progress
—OF THE—
McCORMICK
MAKES THE WOOD PLATFORM A *RELIC* OF THE PAST.

* * *

This patch took time.



TIME IS VALUABLE WHEN THE GRAIN IS RIPE.

Such improvements, produced regardless of cost, have made the McCormick "Machine of Steel" a prize-winner on every harvest field of the World. The great competitive award of 1890, ***the Gold Staats-Medaille of the Vienna Exposition,*** was won by the McCormick, its modern appliances making it an easy victor.

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ON THE "MACHINE OF STEEL" IS
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IN FIT
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TATE
HE EARTH

Oil cup

The top of the bridle
sill are broken away to
connection of tightener

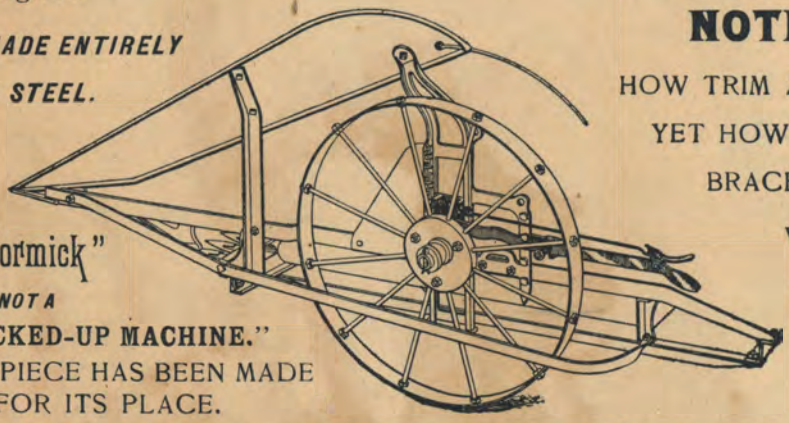
trouble
the field, and this
money in harvest time.

FROM WHATEVER POINT OF VIEW THE McCORMICK "MACHINE OF STEEL" is examined it contains new methods of construction, patented improvements. This is a view of the divider, wheel and raising device taken from the grain.

MADE ENTIRELY FROM STEEL.

The "McCormick" IS NOT A "PICKED-UP MACHINE."

EVERY PIECE HAS BEEN MADE FOR ITS PLACE.

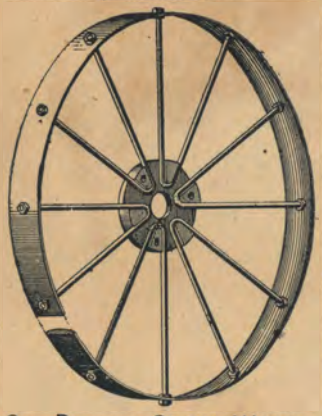


NOTICE

HOW TRIM AND LIGHT, YET HOW WELL BRACED AND WHAT ***STRENGTH.***

One hand on the lever easily lifts the platform, and the lever can then be dropped out of the way of any tangled grain that may perchance be carried back over the divider.

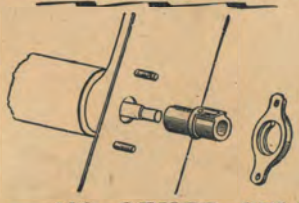
The Hub is removed to show double spoke construction.



Our Patented GRAIN WHEEL.

It will be noticed that the grain-wheel bridle—the casting that the grain-wheel slides in—is bolted at the bottom to both the sills and at the top supports the sheet-steel divider-board, and is in turn steadied by it. This construction is found only on the McCormick.

The grain wheel is not too small a point to speak of; it is an important part. The wheel must be light, as too much weight will cause side draft, and it must be very strong, as the whole force of the team comes on it when it drops into a hole. Attention is called to the wide, half-oval tire and to the double spokes that hook over the lugs on the center plate. This construction, patented by us, allows the hub to be removed when worn and replaced with a new one without disturbing the wheel, or a spoke may be removed as easily.



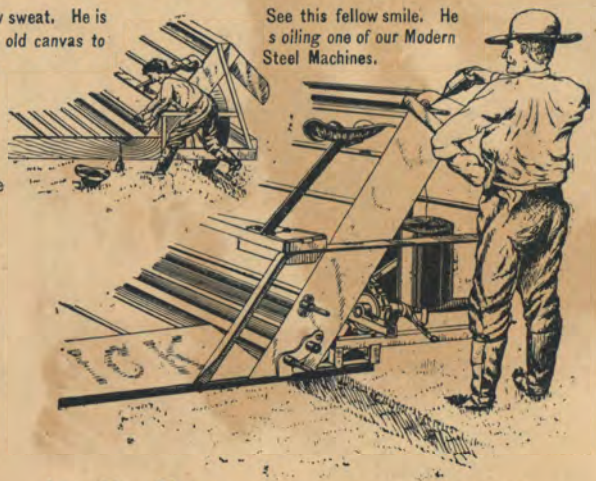
BRASS BUSHINGS.

Brass makes the best Box for a Steel Shaft.

NO OTHER SELF-BINDING HARVESTER built is as convenient and durable as the "Machine of Steel." The old Wood canvas guides have been replaced by metal ones, each bearing of which is fitted with a removable brass box, and the machine runs much lighter therefor.

See this fellow sweat. He is *pulling up the old canvas to oil the rollers.*

See this fellow smile. He *s oiling one of our Modern* Steel Machines.



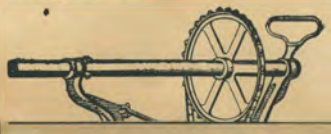
ALL OIL HOLES ARE UPON THE OUTSIDE.

CONVENIENCE—THE WHOLE WORL
CONVENIENT WAYS OF DOING

OLD KING COLE AND HIS WIFE.
Other side up to see his wife.

PLEASANT
HARVESTIN
WITH
HE McCORM

trally bound.



. . . UP AND DOWN

Forward and backward, placing grai
kind in the right spot.

sy for the

k won this
s fair, which

1851.

f 1851 that
out grain
l's fair and
Cormick has

A REMINDER.

Mrs. Quilter: You may cut me off a sample and I'll see my dressmaker, and send for what I need.

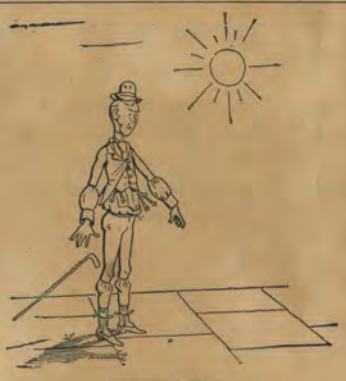
Infant Terror: Why, mamma, that's just what you said in all the other stores.

HE HAD HIS REVENGE.

How Robert Was Sold on a Cheap Suit of Clothes And How He Had His Revenge.

THEY FIT.

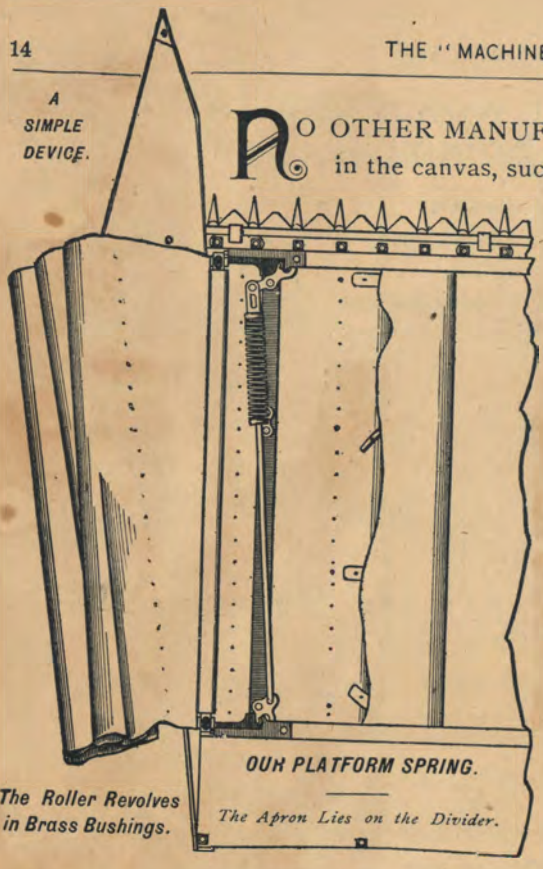
THEY SWELL.



THEY SHRINK.

THE REVENGE.

A SIMPLE DEVICE.



The Roller Revolves in Brass Bushings.

OUR PLATFORM SPRING.

The Apron Lies on the Divider.

NO OTHER MANUFACTURER USES SUCH GOOD DUCK in the canvas, such prime straps on them, nor has anyone taken such care to add improvements that will prolong the life of the canvas. Heretofore, almost every harvester sold has required an extra set, costing fifteen dollars, before the machine is worn out. The first-class grade of duck used in the "Machine of Steel," the springs to relieve the great strain on the canvas when it contracts, because of rain or dew, both sides giving the same distance, thus keeping the canvas from getting askew and breaking the slats and tearing the cloth, are great improvements, which have only to be seen to be appreciated. . . . . .

THE "MACHINE OF STEEL" IS BETTER THAN ANY OTHER, IN MANY THINGS.

You who have seen the bungling Flags hung from one end, shaking and jumping as the machine moves over rough ground can see how much better the one shown in this cut, hung in the center as it is, must be.

. . . A TASTY FLAG. . . .

SUPPORTED IN A COMMON SENSE WAY.

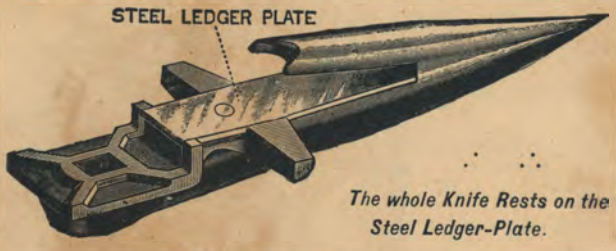
THE LIGHT DRAFT **"MACHINE OF STEEL"** IS THE NAME

BY WHICH IT IS KNOWN.

The thirty thousand sold in 1890 have made this machine famous for its ease on the horses. The guard here shown that cuts the grain without hackling it, the perfectly fitting knife,

A CUTTER BAR TRUE AS A DIE,

together with the end drive, have, with the other improvements heretofore mentioned, made the "Machine of Steel" the lightest draft of all the many harvesters.

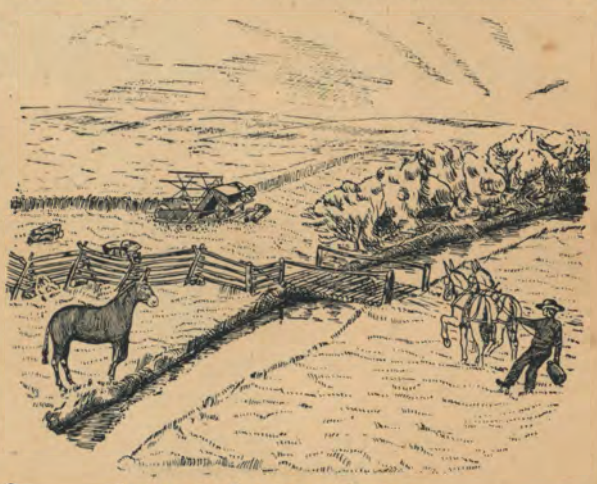


The whole Knife Rests on the Steel Ledger-Plate.

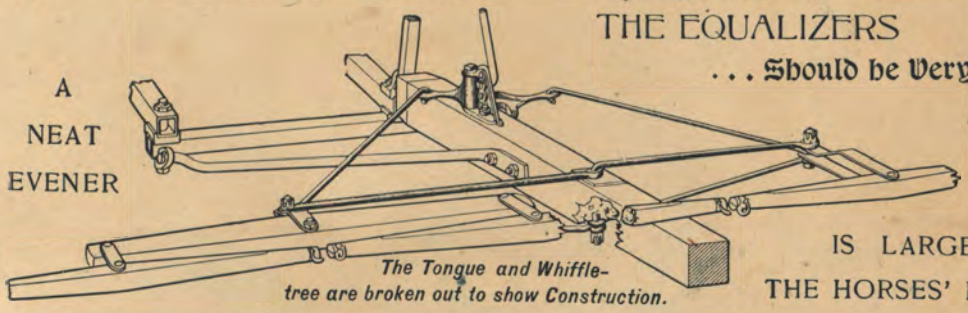
IT IS A KEEN CUT

THAT IS MADE BY THE KNIFE MOVING THROUGH THIS . . . GUARD . . .

THE THIRD MULE IS FATTENING FOR THE MARKET ON THIS FARM. The owner fortunately bought a "Machine of Steel" and finds that his regular team can easily do his cutting. It is a saving of at least fifty dollars—the cost of keeping the mule for a year, as there was no other work for which he was needed. There is, however, a neat equalizer for three horses furnished with each machine, as some of the fields may be soft, or very hilly, and perchance the team a light one. Even a buggy is a load in the mud. When the fields are soft the three-horse equalizer can be quickly attached.



A NEAT EVENER

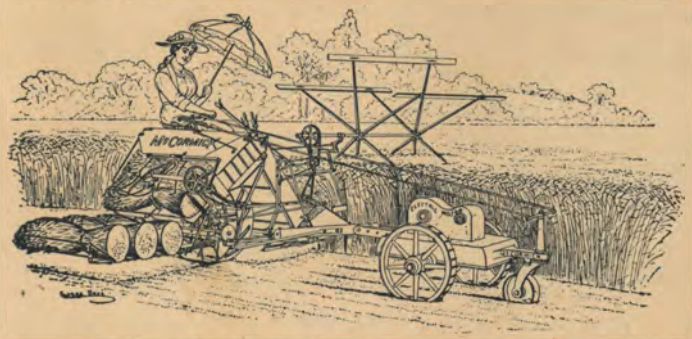


The Tongue and Whiffletree are broken out to show Construction.

THE EQUALIZERS
. . . Should be Very Light.
BECAUSE THEIR WEIGHT
IS LARGELY ON THE HORSES' NECKS.

* * *

There is no part of the "Machine of Steel" that has not had the same careful study as those that have been shown. All parts have been improved and built for the special purpose for which they were intended. Thousands of dollars are yearly expended by us in experimenting, and a corps of scientific men are daily figuring how the McCormick machines can be improved. Such work has kept the McCormick in advance, and has won the world's greatest prizes.



HARVESTING IN THE 20TH CENTURY.

DECORATION OFFICER LEGION OF HONOR.

OUR LIGHT BINDER LEADS THE WORLD

MODERN. **30,000** CONVENIENT.

Of These Binders Sold Last Year.

NEARLY DOUBLE THE AMOUNT OF ANY OTHER MAKE.

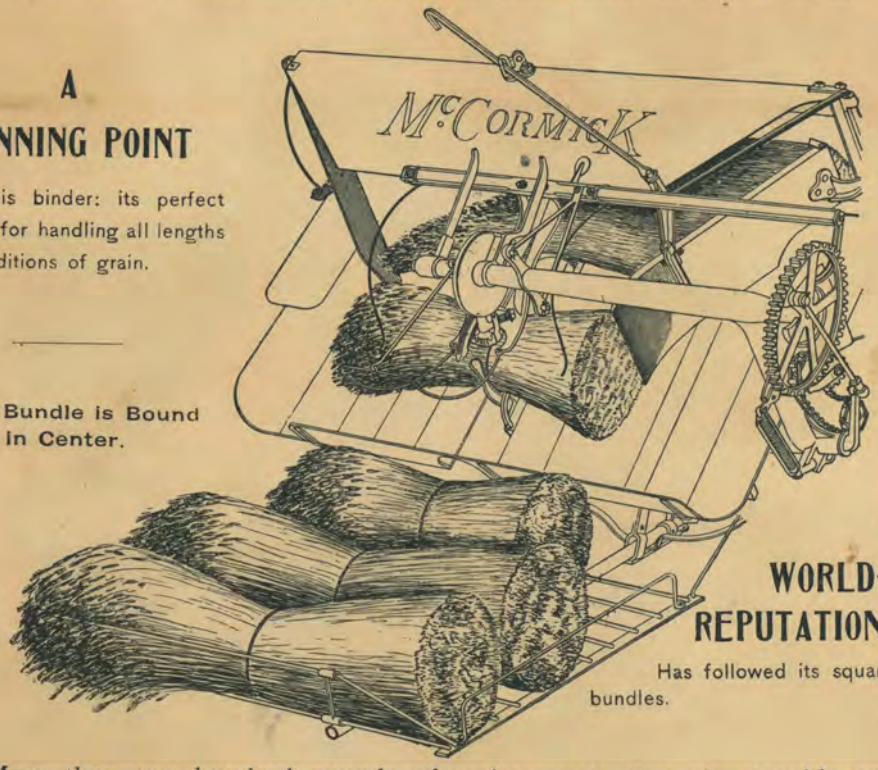
THE SIMPLEST BINDER THAT EVER BOUND GRAIN.

SIMPLICITY of construction, with accuracy in tying, is everything in a Binder. The farm is a poor place for complicated machines and an ax and monkey wrench are poor tools with which to repair them.

A WINNING POINT

With this binder: its perfect capacity for handling all lengths and conditions of grain.

Each Bundle is Bound in Center.



A WORLD-WIDE REPUTATION

Has followed its square butted bundles.

More than two hundred pounds of useless parts that give trouble on other binders have been taken from the McCormick, and it is now so simple that the farmer runs it without trouble. The improvements that have made such success and simplicity possible are patented, and found only on the "Machine of Steel."

Miss Smith's New Hat.

1. *In a milliner's window the hat of the season,*
Attracted Miss Smith, and this was the reason:

2. *'Twas the first one in town, so the purchase was made,*
And soon were Miss Smith and the hat on parade.

3. *She paused at the bridge and stood leaning o'er*
Not to list to the stream, but to look at the rower.

4. *Bjones was the rower, rich, handsome and swell,*
And Hood's Sarsaparilla made him healthy as well.

5. *But at sight of Miss Smith he careless did get,*
And a squall coming quickly, his boat was upset.

6. *At a sight of his danger Miss Smith gave a scream*
Which [illegible]

7. *Her loss was his safety, for it fell just in time*
For Bjones to grasp it and in it to climb.

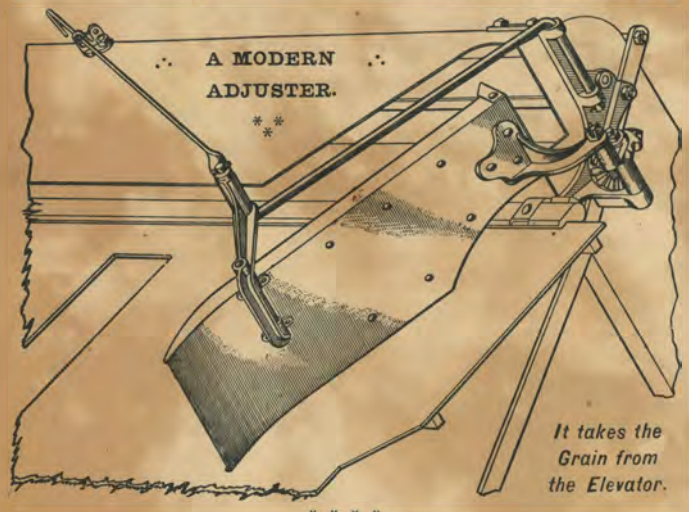
8. *In this strange life preserver by aid of an oar,*
He paddled himself and the hat to the shore,

9. *Where his courteous thanks to the lady he made,*
And returned her the hat, sadly spoiled, I'm afraid.

10. *Now a wedding of course must end this affair,*
And above are their photographs finished with care.

11. *The romantic sequel was everywhere told,*
And a stock of these hats was speedily sold;
While the bridge has a maiden on every span,
Who would lose her new hat for the sake of a man.

IN OUR CATALOGUE FOR 1890 WE SAID THAT THE McCORMICK INVENTORS WERE EXPERIMENTING with a reciprocating-vibrating adjuster to take the place of the canvas one, and that when it would do work better than the canvas it would be adopted. After trying for two years and making many with all kinds of shapes and movements, the one shown was discovered. It moves the grain into the binder on its down path, and when it goes up to take a new hold it moves away from the grain so as not to carry the grain back with it. This adjuster is made of sheet steel in a way peculiar to the McCormick, is hung at its lower end on an elbow that swings from the rear of the adjuster, and will be found to be longer-lived, more reliable and a better one than any other in use. Without a good adjuster the binder can not do good work. All kinds have been tried, this is the best.



∴ A MODERN ∴ ADJUSTER.

It takes the Grain from the Elevator.

* * * *

USED ONLY ON THE McCORMICK IS ANOTHER SPECIAL IMPROVEMENT.

"Well! If it was any good WE would use it," said the agent of an antiquated, cheap machine that has not had an improvement in ten years. Right here let it be known that all of the special features in the McCormick are patented and can't be used by others.

Balls of twine will roll about, jump and finally fall down and get snarled, if loose in the can.

The McCormick can fits closely to balls of any size.

ADJUSTABLE

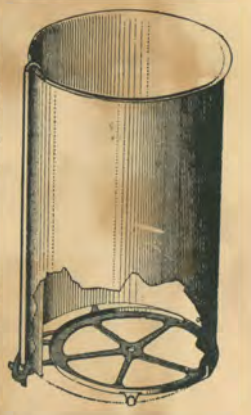
TWINE CAN

with bottom broken away to show how it can be made of different sizes.

* * *

ANY SIZE BALL

can be used. The twine dealer can no longer bulldoze you.



. . . ANOTHER OF OUR TROPHIES . . .

IN EVERY LAND THE McCORMICK WINS THE FIRST PRIZES.

In America it is victor, in thousands of fields, and a competitor, more or less, does not concern it. It however has done more than to win trials at home. It has gone into foreign fields, against foreign machines, into trials whose judges have been engineers educated in the world's greatest schools, and has successfully maintained its superiority.

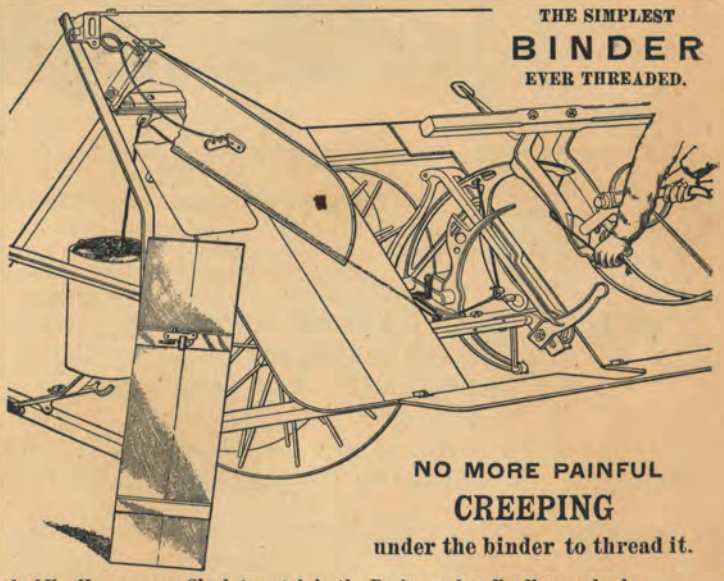
Its banner is emblazoned with the World's great prizes.

HANDY WAYS OF THREADING, OILING AND OF ADJUSTING ARE FOUND IN THE "MACHINE OF STEEL." It was all planned at the beginning. There are many binders that have patched on a piece here and there that are as unhandy as the house that had the cellar stairs in the parlor.

See how
WIND-BOARD SPRING
can be tightened.

TWINE-CAN
Is always in sight.

THE BINDER EASILY
THREADED AND OILED
BY TAKING OUT
THIS SPRING-HELD LEAF.



Twine Threaded through the Heel of Needle; no more Slack to catch in the Packers when Needle goes back.

The "Machine of Steel" would never have been built had we been content to stop when our self-binding harvester was considered by thousands to be good enough. Advance and improvement is the policy of the McCormick Company. It is striving at all times to anticipate the wants of the agriculturists and to make machines for handling grain and grass more perfect than any other machines on the farm.

THE FRUIT OF THIS POLICY

Is seen in the immense sale of the McCormick. The people of the world demand, and will buy the best, even though the cheap is offered them at far less price. While our machines are recognized world-wide as the best, the Government of the U. S. specifying them as the standard, still at home and abroad, in the competitive field trial with all its jobbery and with a combined opposition whose cry is "*McCormick* must not win," still

NINE TIMES OUT OF TEN

THE McCORMICK IS VICTOR.

The aggregate of all the prizes won by all makes of machine, both home and foreign, do not equal the prizes won by the McCormick.

THE GRAND PRIZE
WON AT PARIS, 1889.

THE NEW SIMPLE KNOTTER

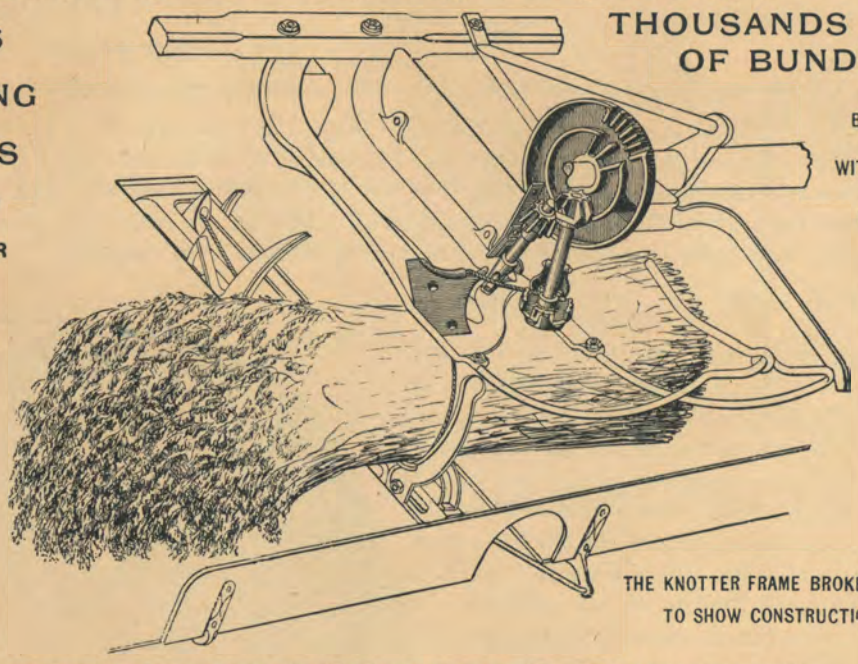
THE McCORMICK KNOTTER IS ON THE "MACHINE OF STEEL."

JUST AS SIMPLE AS YOU SEE IT HERE.

All other Knotters, however simple they may be made to look on paper, are complicated mechanisms.

THE McCORMICK SIMPLE KNOTTER is easily understood and the owner of one of them quickly sees and understands it all. If a knife blade becomes loose, a link breaks, or a strap tears, there is no fear, and the part is coolly fixed; but let one of the old complicated knotters used by others begin to throw loose bundles and at once there is alarm. The involved device is not understood and the slightest derangement necessitates a trip for the agent and expert.

LESS MOVING PARTS ON THIS KNOTTER THAN ON ANY OTHER EVER MADE.



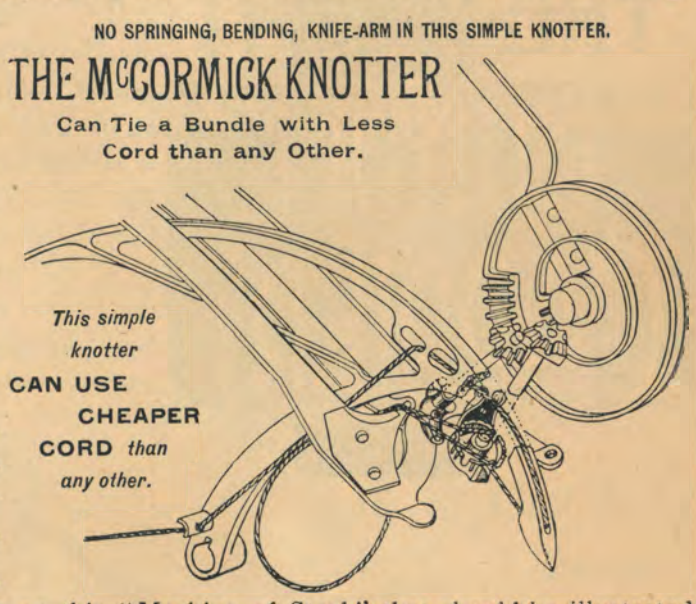
THOUSANDS OF BUNDLES BOUND WITHOUT A MISS.

THE KNOTTER FRAME BROKEN AWAY TO SHOW CONSTRUCTION.

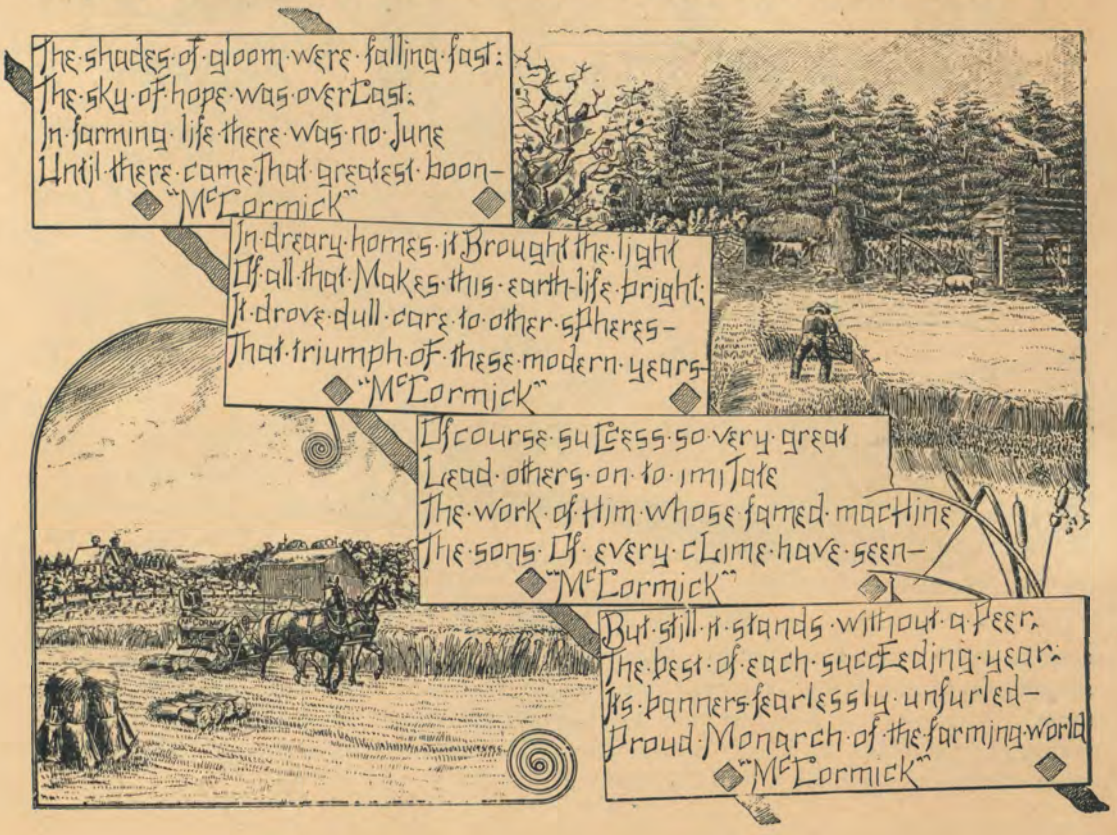
THE "MACHINE OF STEEL" HAS THE ONLY SIMPLE KNOTTER THAT IS A SUCCESSFUL KNOTTER.

The tactics of some of our competitors in showing a part of their tying devices, and then claiming knotters of six pieces, and of others who illustrate theirs so as to hide the swinging and springing knife-arm, and then who assert that their knotters are simple, show how the intelligent purchasers of machines are demanding devices of few parts, similar to ours, which will not get out of order, and which will have greater certainty in work. They have found it easy to claim a simple knotter on paper, but far harder to get one in reality.

THE knotter-hook stands with its point outward and a rigid finger holds the cord until the hook in its revolution carries the cord around its end. The discharge arms then throw out the bundle and this slips the loop of cord from the hook, thus doing away with the springing knife-arm — a big improvement. Examine a machine and see that the wheel that holds the cord lets go of it when cord is needed for the knot and takes a new hold when enough has been taken. The other cord is not caught until the loop is formed. There is no binder made that strains cord less when the knot is being tied.



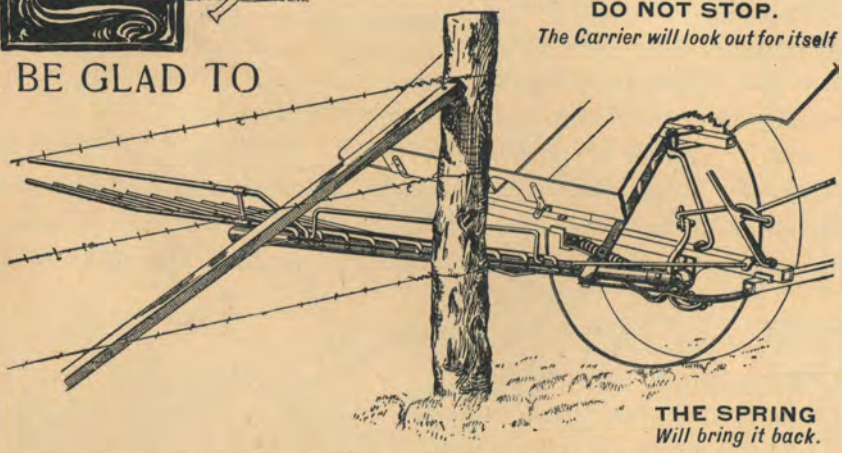
There are many other points on this "Machine of Steel" that should be illustrated, but lack of space prevents. This knotter, however, may be taken as a type of our many improvements which have made this machine ***THE BEST IN THE WORLD.***



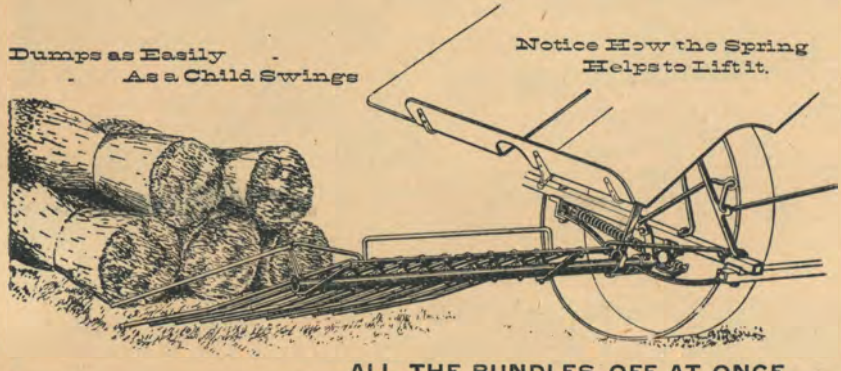
THE BUNDLE CARRIERS

WE advise you to buy our bundle carrier. It is one that will do the work. The bundles drop upon it and when the row is reached slide from it. If it strikes a stump it swings out of the way and when the stump is passed it swings back to place to again catch and carry the bundles. It does all this very easily without worry to the driver. It is the only bundle carrier that has the right movement to discharge its load and that still will swing out of the way to pass an obstruction.

YOU WILL BE GLAD TO HAVE THIS **Carrier** ON THE FARM.



It will be found to save more labor than any other machine on the farm that costs no more than it does. Please bear in mind that it is only



ALL THE BUNDLES OFF AT ONCE.

. . THE . .

McCORMICK

CARRIER

THAT WILL MAKE

A SAVING.

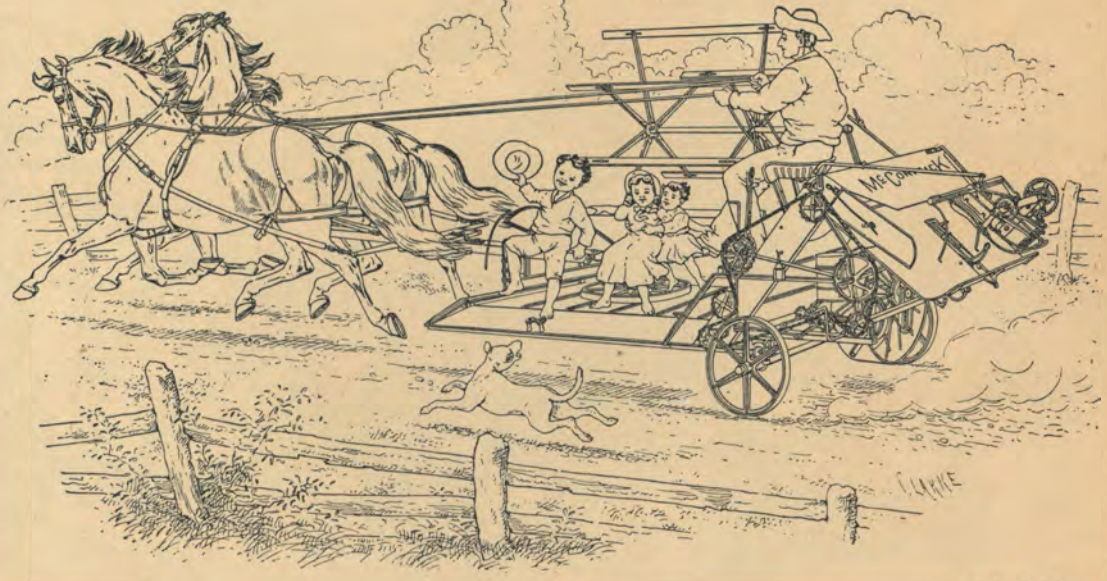
* *
*

It is the only carrier that will work at all times in all conditions of ground and grain. We have built, in the past, several different kinds of carriers, including a steel-fingered one, but do not recommend our customers to buy them. We do advise, however, the buying of the McCormick swinging carrier, which makes the "Machine of Steel" worth twenty dollars more than it would be were any other carrier that is made hitched to it.

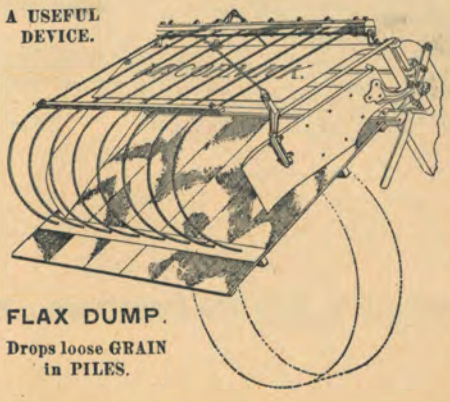
THE TRUCK

ANOTHER SPECIAL ATTACHMENT made for moving the "Machine of Steel" from field to field or farm to farm is the truck. It is not included with the machine, nor is the bundle carrier, both being sold at a small additional price. This is the best truck made, because the machine is more easily loaded onto it and is better supported without straining when on it. The patent office recognized this and granted us a patent covering trucks built as this one is.

HAVING A JOLLY TIME.



A USEFUL DEVICE.



FLAX DUMP.
Drops loose GRAIN in PILES.

NO DANGER

EVERY PART . . IS . . WELL SUPPORTED.

The driver who may be alone in the field easily loads the machine on the truck without help in a few minutes' time. The machine balances over the axle, the platform is supported and there is no danger of straining any part.

The binder can be removed if desired, and the flax attachment here shown put on, in its place. This attachment is only furnished on special order.

Kings envy this man his happiness. No wonder he is happy with such a team and machine.

We Affirm

THAT IT WILL PAY YOU TO

READ THE NEXT FOUR PAGES OF THIS BOOK . . .

. . . ON . . .

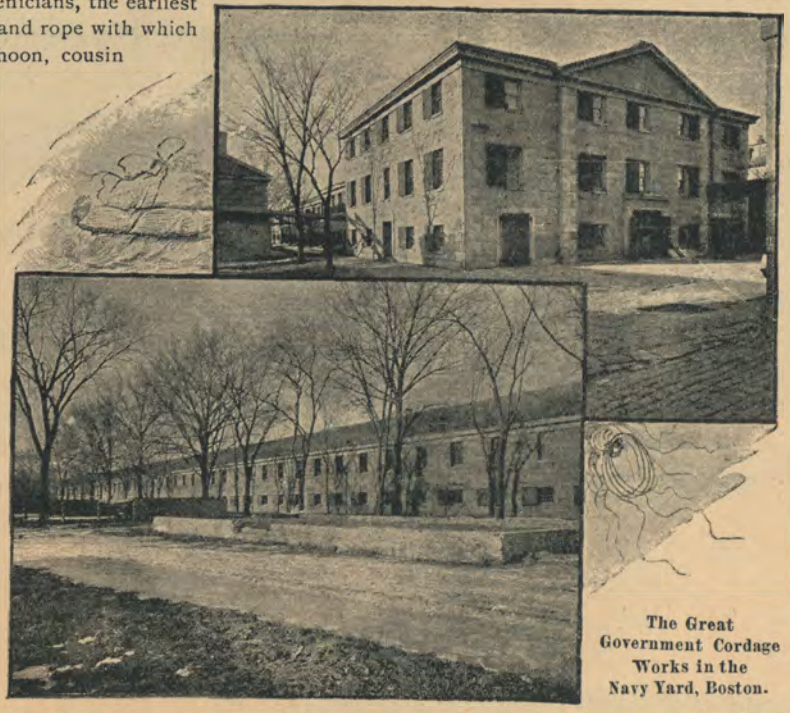
McCormick Twine

And shall you the effect of the good lesson keep as watchman to your purse."—Shakespeare.

WHAT YOU LEARN WILL MAKE YOU HAPPY.

Pictures have been found carved on stone, of men twisting fibres into rope, that were made in an age so remote that history has no record of it. Herodotus, writing 400 years B. C., tells of a class of skilled artisans to whom the Phœnicians, the earliest navigators, went for twine and rope with which to rig their ships. The typhoon, cousin to the cyclone, snapped the stays and shrouds obtained from the unskilled rope-makers and all on board went to the bottom. The rigging of the skilled artisan withstood the strains and the storm was weathered, and thus the craft of rope-makers grew.

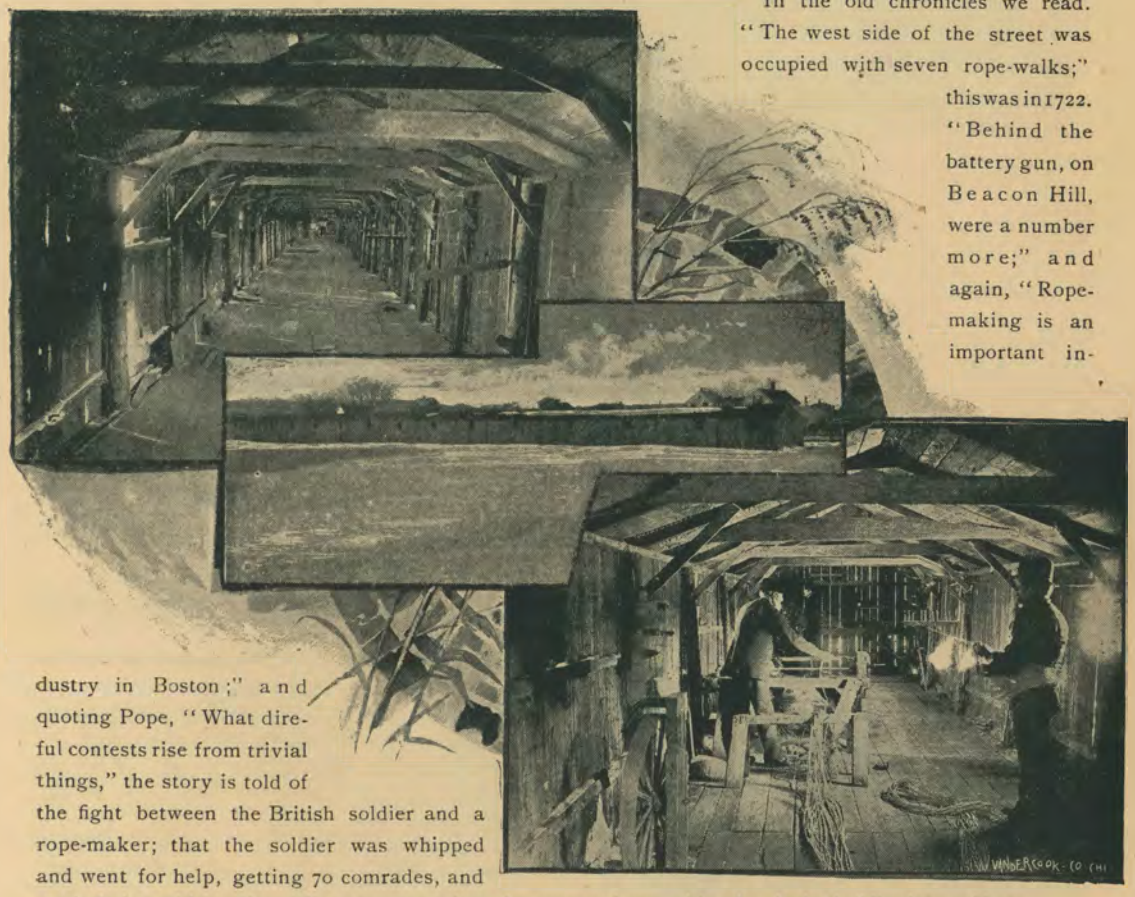
In later days humane Governments have had a care for the safety of their subjects and every sea-bound nation has established and maintained its rope walk, into which the most skilled artisans have found their way and from which the great improvements in cordage have emanated.



The Great Government Cordage Works in the Navy Yard, Boston.

Has it occurred to you why the Government maintains these great works shown above—the bottom view is a continuation of the upper—when in all other lines it lets its jobs to the lowest bidder? The answer is, that only skilled workmen can make twine and rope, and the Government has a duty to perform to its sa lors in furnishing its ships with only the best.

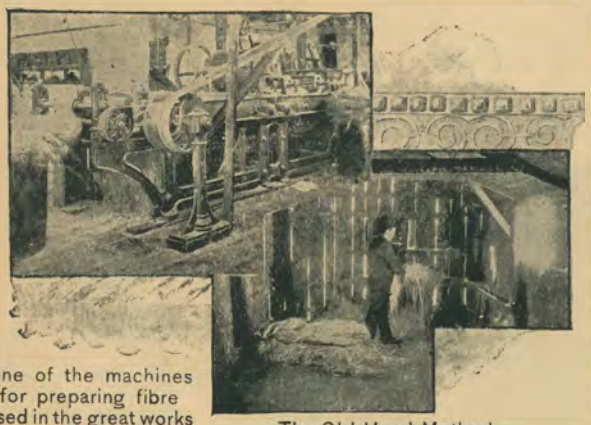
THAT Ancient twine-making city that Herodotus speaks of has its one counterpart in all countries, and in America Boston is the place. Long before the Government was founded, it was renowned, and from its historic rope-walks went the rigging that carried the Constitution, Constellation, and old Ironsides, into action, and the sailors of Paul Jones, Rodgers and Bainbridge, depended on it, as they knew from whence it came.



In the old chronicles we read. "The west side of the street was occupied with seven rope-walks;" this was in 1722. "Behind the battery gun, on Beacon Hill, were a number more;" and again, "Rope-making is an important industry in Boston;" and quoting Pope, "What direful contests rise from trivial things," the story is told of the fight between the British soldier and a rope-maker; that the soldier was whipped and went for help, getting 70 comrades, and again being whipped brought 300 more, when the rope makers, with staves and stones, split their heads and drove them to their barracks. We show here a picture of one of these old walks, above it an inner view and below it a spinner with the hemp around his body, in the act of forming a thread.

In that building long and low,
With its windows all a-row;
Like the port-holes of a hulk,
Human spiders spin and spin,
Backward down their threads so thin,
Dropping each a hempen bulk.
—*From an old poem, 1746.*

THE GREAT CORDAGE WORKS WHOSE WHOLE OUTPUT IS TAKEN BY THE McCORMICK HARVESTING MACHINE CO., is situated on this historical ground. Old men are employed therein, whose grandfathers handled the fiber that was in the hawsers of the Constitution. A race of expert twine-makers—a talent descended from the generations of those gone before—surround these works, and find employment therein. Five years ago we realized something must be done to escape the extortions of twine manipulators. We did not build a one-story shed near our works in Chicago, and call it a twine factory, nor did we make a contract with unskilled prison labor, but what we did do was to go where expert operatives could be found, and arrange for the total output of a great mill fitted with modern and special machinery, the operatives in which were skilled mechanics, and the superintendents graduates of the government works. Did we act wisely? The sale of 8,000 tons of twine last year, more than was ever sold by any one house before, is sufficient answer.



One of the machines for preparing fibre used in the great works in Boston.

The Old Hand Method.

AS A MATTER OF FACT THE SHREWD AGRICULTURIST does not need to be told that the McCormick twine is better than any other. If he has used it, he knows that it is by practical experience. Why it is better, is what we wish to tell, so that no one can be caught, thinking that perhaps twine of a good quality can be made by inexperienced workmen, or in works where even the superintendent knows nothing of hemp or has served no apprenticeship as a twine-worker. Dr. Ure, in his "Dictionary of Arts, Manufactures and Mines," writes:

"Years of experience are required to obtain the skill necessary to the proper cleaning and handling of the fibres of hemp. These fibres, which seldom exceed in length three and one-half feet, must be twisted together so as to unite them into one; and this union is effected by the mutual circumtorsion of the two fibres. If the compression thereof produced be too great, the strength of the fibres at the point where they join will be diminished, so that it becomes a matter of great consequence to give them only such a degree of twist as is essential to their union."

Captain Huddart, author of "Improved Principles of Twine Manufacture," has said that the preparation of fibre and the spinning of twine are a trade that requires years in which to become proficient.

HERE ARE THE REASONS WHY OUR TWINE IS THE BEST.

1. The great works whose sole output is ours is in Boston. Don't forget that the U. S. government, for good reasons, established its works there.

Spinning Blue Jay Twine in the way specified in our patent.

2. For more than one hundred years twine has been made by expert operatives on the ground where McCormick twine is now made.

3. The superintendents that overlook our twine, as boys, learned their trade in the government works.

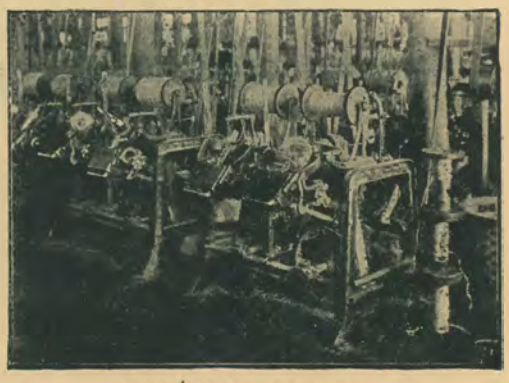
4. We are experts in binder making and knew our blacksmiths could not be experts in twine making.

5. We would lose four dollars because of trouble with our binders for every dollar we could hope to make in selling a cheap twine.

THIS COMBINATION IS FOUND ONLY IN McCORMICK TWINE.—It is made in the best fitted mill in America, which has new and special machinery, by operatives who are doing their best, and whose skill is historical. It is made for the world's largest binder manufacturer, who must have the best of twine to maintain his great reputation.

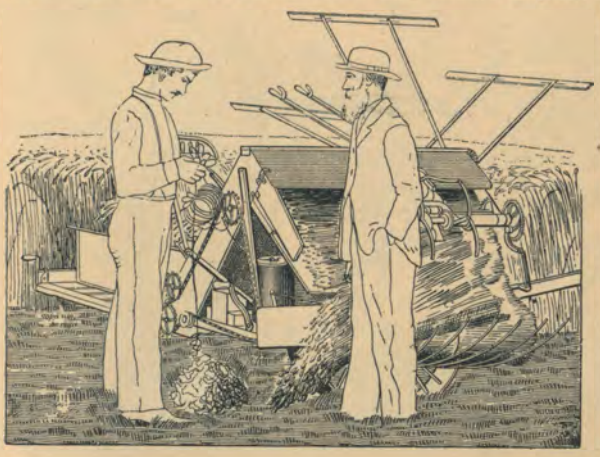
Did you notice Dr. Ure's statement quoted above, viz.: that the circumtorsion of the fibres was what gave strength to the twine, and that if the compression was too great the twine was weakened? His meaning is that the fibres cut each other. A good fibre will stand five pounds strain. Fifteen would thus bind grain, but when twisted they cut each other, and three times this many are required. In the McCormick patented Blue Jay twine there is a loosely-twisted thread of a soft fibre which forms a cushion to the hard manilla fibres, thus keeping them from cutting, and making the twine far stronger, even though the soft fibre is weaker.

This is an improvement of importance.



Balling McCormick Twine.

THIS POOR MAN is worried; his grain is ripe, and after a half day spent in **STOPPING, TINKERING, THREADING,** and—yes, there was an oath or two—it is no wonder he is disgusted. The presence of his neighbor, who owns a McCormick, with its adjustable twine-can, that holds the ball so that it will not fall down and become tangled, and who used McCormick twine and has his crop all in shock, does not make him any happier. His horses are in the barn, as he does not know whether it is his complicated knotter or the twine that is causing him the trouble. Last year he bought McCormick's Standard twine and got along all right, but, reading an advertisement of an implement firm, "We make our own twine," he bought some of it. He now sees that even though a firm can make a good plow that it is no reason that their blacksmiths can make good watches, or good twine, the making of both of which are trades, as much as is the making of a binder. On the other hand, had he bought twine made by some rope manufacturer who has no interest whatever in furnishing a good article, the idea being to make the cheapest and palm it off on the farmers under high-sounding names at high prices as the best, the tangling, breaking and snarling would have been the same as shown in the cut.



TROUBLE ⟨ **THE TWINE WAS MADE BY AN INEXPERIENCED MAKER—A BINDER MANUFACTURER.**

NOW, BY WAY OF A REMINDER:

Don't forget that McCormick twine—the best twine—is for sale at our agencies all over the land. There are different twine fibres, all of which must be used, as there is not sufficient of any one to supply the demand. This caused us to make several different grades of twine. Upon the tags on each ball will be found the marking to show of what the twine is composed. There are but very few men—even though they have spent years at the business—that can tell fibres, and hence there is no article in which deception is more easily practiced. Those that have not the skill to make a good article, the unscrupulous that may have but do not, both take advantage of the ignorance of the buyer. Even the Government had to make its own cordage.

THERE IS ONLY ONE SAFE PLAN,

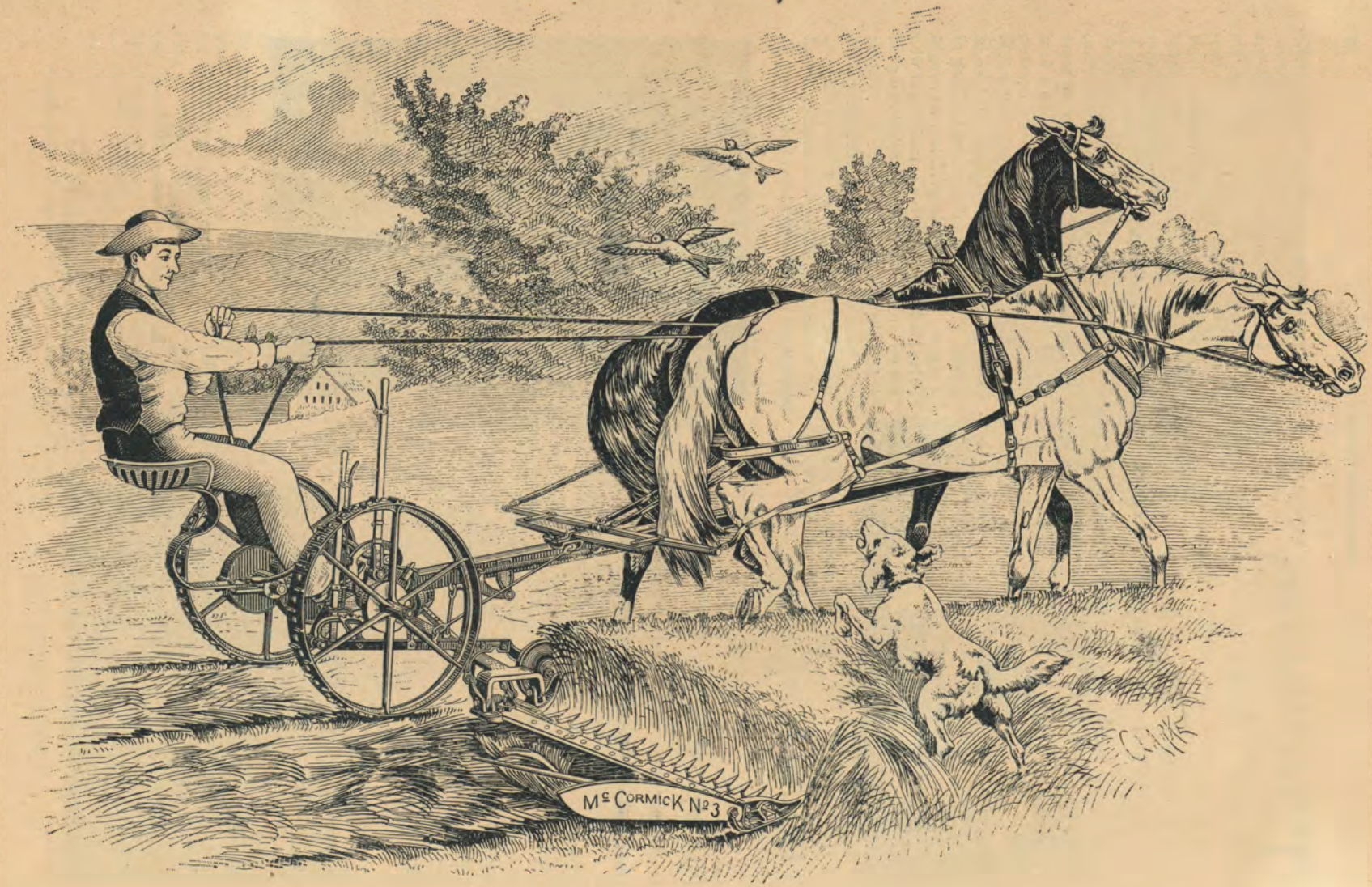
And that to buy twine from the known, reliable company,

THE McCORMICK CO.,

that, on account of its machines, can afford to sell only the best, and, as has been shown, is in a position to get it. We guarantee that the different grades we offer are better value at the prices we ask than any other twine on the market.

Little Foundlings.

"Home, home, sweet, sweet home"— the words came soft and low,
Like angel voices in the night—like dreams of long ago—
"Be it ever so humble"— I caught the touching strain—
"There's no place like home, sweet home"— I heard the low refrain.
The singing came from childish throats—girls in a foundling home—
Sweet ripples from life's stormy sea, just washed ashore like foam—
And as I listened to their song, and saw their faces fair,
Methought there was a little cloud, a touch of sadness there;
And tho' 'twas long, so long ago, I dare not name the years,
Whene'er I hear old "Home, Sweet Home," that picture re-appears.



Take care there, Bose, this is a McCormick Mower, it would mow you down like grass.

SAVE THE HAY

The McCORMICK No. 3 STEEL MOWER

is the Best Machine in the World to do it

WE built and sold last season more mowers than ever before during any one year, and this number is far greater than was ever built and sold by any other concern during the same time. The farmers of to-day are almost expert judges of mechanical devices, and when they select the McCormick machines in such immense numbers as they did last year it is proof positive that they are the best, and that they offer a greater return in work for their cost than any other mowers made. A lack of space will prevent our pointing out but a few of the many excellent features of this mower.

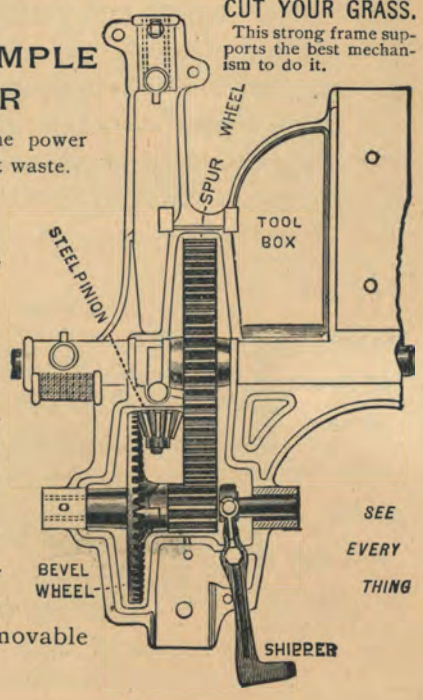
WE WISH HERE TO CALL ATTENTION TO THE SIMPLICITY OF THIS GEAR, and ask that it be compared with other mowers whose gears are so complex that the machine can be drawn five inches before the knife begins to move. This means breakage, trouble and clogging. The bearings in our frame are all bored at one operation, so there can be no binding of shafting; and, being fitted with removable bushings, the frame will last for years.

THIS SIMPLE GEAR

will transmit the power with the least waste.

Good For Lifetime of Service.

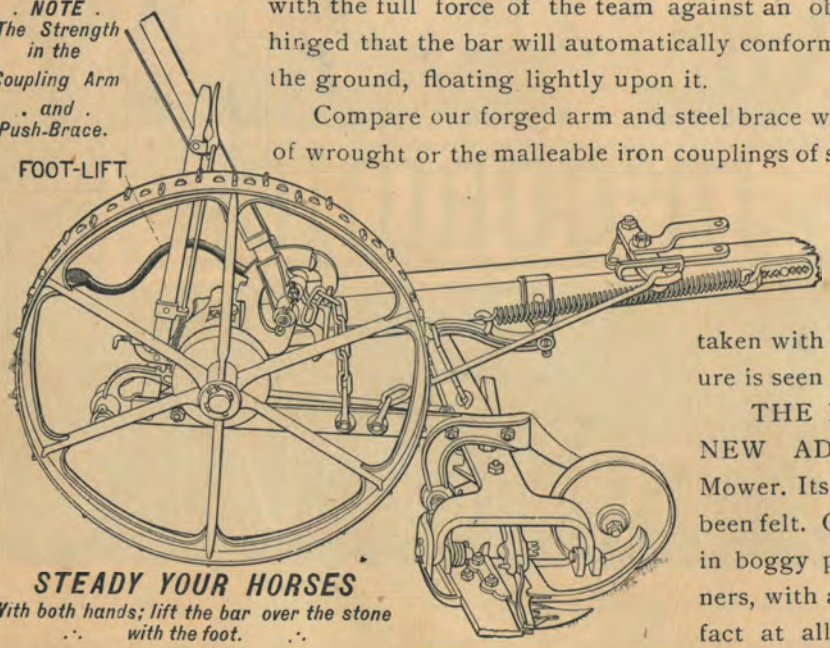
Every Bearing Fitted With Our Improved Bushing.



THE MANNER IN WHICH THE CUTTER-BAR IS ATTACHED TO THE GEARING-CARRIAGE IS VERY IMPORTANT. The good work, the light draft and the long life of the machine depend upon it. The coupling must be of sufficient strength so that it will not be sprung when the cutter bar is brought with the full force of the team against an obstruction, and so hinged that the bar will automatically conform to the surface of the ground, floating lightly upon it.

. NOTE . The Strength in the Coupling Arm . and . Push-Brace.

FOOT-LIFT



STEADY YOUR HORSES

With both hands; lift the bar over the stone .·. with the foot. .·.

Compare our forged arm and steel brace with the thin sheets of wrought or the malleable iron couplings of some makers or the cast-iron arms of the more ancient machines, and the care we have taken with this essential feature is seen at a glance.

THE FOOT-LIFT IS A NEW ADDITION to this Mower. Its necessity has long been felt. On rough meadows, in boggy places, at the corners, with a fractious team, in fact at all times—it will be found a great convenience to raise the bar with the foot in place of reaching for the hand lever.

THE WEIGHT OF THE FINGER-BAR BEING CARRIED on the wheels by strong springs makes the bar more easily lifted by the foot. As it bears on the ground so lightly the machine is drawn with greater ease, and the bar floats over the rough ground. The weight being carried on the machine also makes the traction greater and the mower more powerful as a cutter. It will be noticed that there is

. . . A COIL SPRING AT THE HEEL OF THE KNIFE . . .

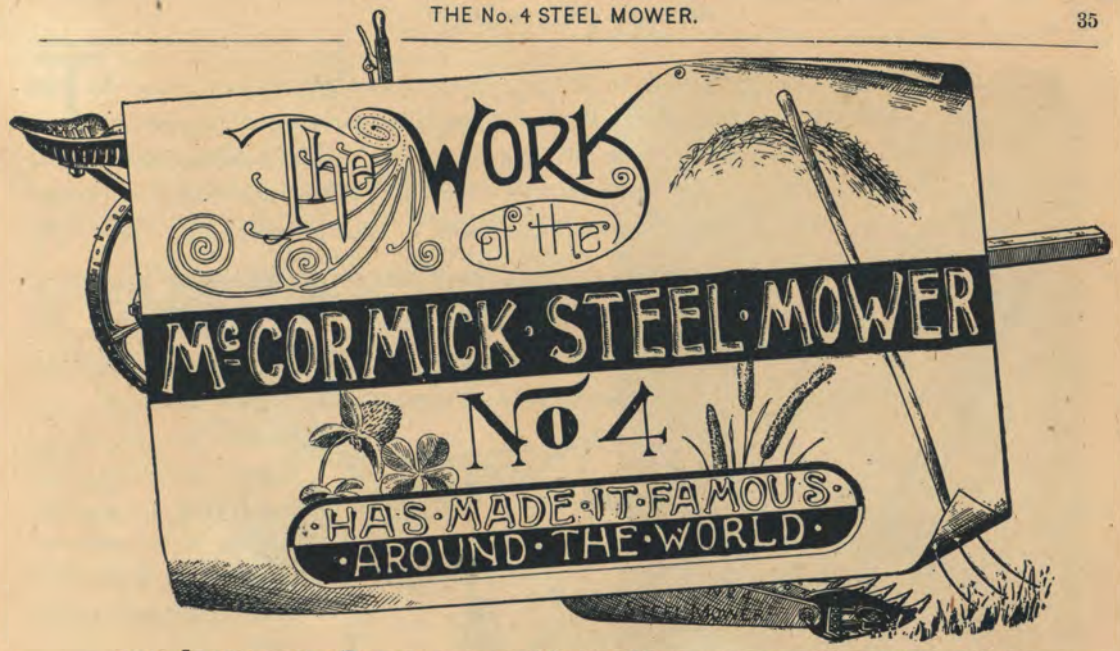
that carries the outer end of the bar.

WE WON HUNDREDS OF TRIALS IN 1890. WITH THE CHANCE WE WILL WIN THOUSANDS IN 1891.

. GOOD POINTS .

1. The lead wheel always stays on the ground and rolls the bar out of the holes.
2. The tilting lever locks the bar close to the ground or holds it up.
3. The bar if left free, by turning in the thumb-screw, will float.
4. Why will it float? Notice that the coupling-arm is hinged to the push-brace behind and below it.
5. Draft-rod hitches to the push-brace and if finger-bar strikes anything the bar rolls up on the push-brace joint.
6. Push-brace is parallel with ground and hence does not tend to lift the wheel from the ground in hard cutting.
7. Lack of space keeps us from giving other reasons why this mower beat so many others in last year's trials.

Prosperity Attends the Owners and Users of the McCormick.



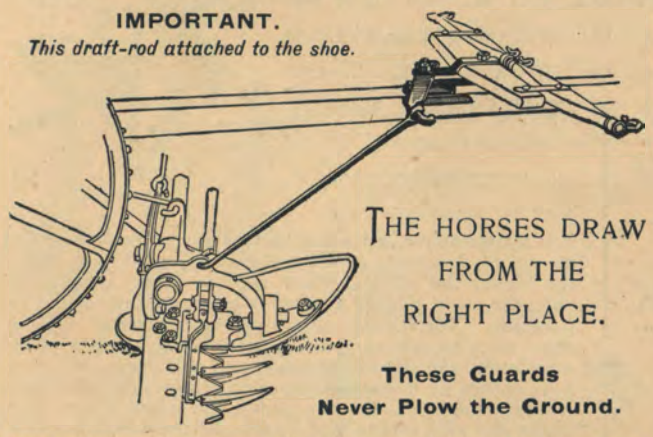
THE LIGHTEST DRAFT AND MOST POWERFUL MOWER EVER MANUFACTURED.

IT IS A MODERN MACHINE BUILT ON THE RIGHT PRINCIPLES.

* * * *

BUT few realize how difficult a job it is to make a first-class Mower. It seems to be the general impression that "anything will mow." There could not be a more mistaken notion than this. The harvester, for instance, moves over the ground, cutting the stubble at a uniform height, while the Mower must shave the ground, following into the depressions and rising over the heights. To attach a cutter bar to the frame so that it will freely do this, and to move the knife through the guards, whatever the position of the bar, requires as much care as to build a binder. This Mower has had as much care bestowed upon it as any binder we have ever built.

IMPORTANT.
This draft-rod attached to the shoe.



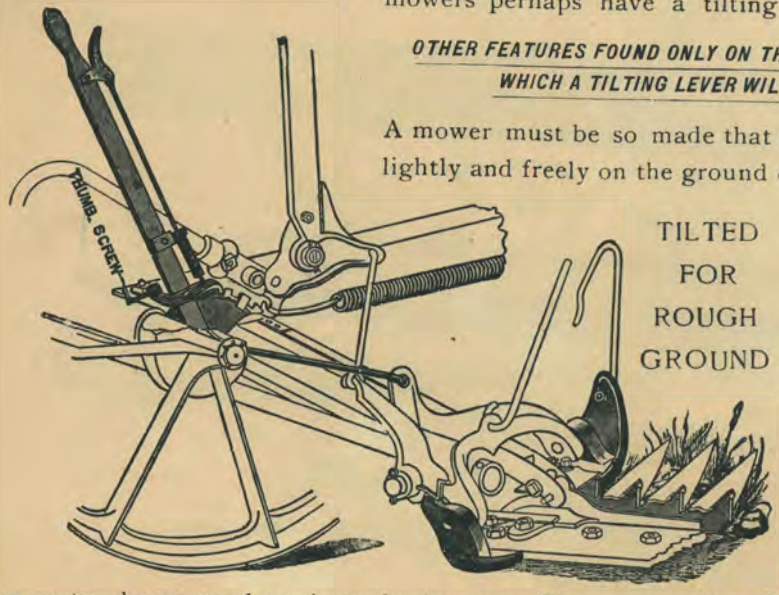
THE HORSES DRAW FROM THE RIGHT PLACE.

These Guards Never Plow the Ground.

THERE ARE NEW FEATURES FOUND ONLY IN THIS MOWER THAT ARE IMPORTANT. Look at this draft-rod; it floats the bar, it keeps the guards from plowing the ground, it lifts the bar out of the hollows and over the hummocks; and do you wonder that the U. S. Patent office granted us protection in its use? Read this claim:—

The Combination with the coupling-frame, the finger-bar bridge having a long sleeve-bearing on said coupling-frame, and the finger-bar hinged to said bridge, of the draft-rod connecting the finger-bar bridge above the shoe with the shifting double-tree.—Patent No. 441,896.

ALL know that the finger-bar in lodged clover must be locked close to the ground, that in a bad bottom it should be tilted or turned up, and that at other times it is best that it be left free to float. All McCormick Mowers are fitted with a tilting lever that allows the bar all these movements. Most mowers perhaps have a tilting lever, but there are



TILTED FOR ROUGH GROUND

OTHER FEATURES FOUND ONLY ON THE McCORMICK, WITHOUT WHICH A TILTING LEVER WILL BE OF NO USE.

A mower must be so made that its finger-bar will ride lightly and freely on the ground or it will not float. To make a floating bar as some manufacturers are trying to do, by taking an old mower and attaching a tilting lever is not enough; in fact it is a botch and a failure. Notice our plan in the drawing. The draft-rod hitches to the finger bar bridge so as to always tend to draw the bar up. The grass will pull it down enough, and there must be something to always be drawing it up before it so lightly rests that it will turn up and slide over a hummock rather than plow into it.

A NEW RATCHET AND PAWL USED SOLELY BY US

Has a thumb-screw in the pawl that holds it so it will or will not catch in the notches in the ratchet, or if set just right the pawl will strike against a notch and go no further, but will not catch, and the finger-bar can raise and throw it back. Notice the cut. This patented ratchet is on all McCormick Mowers.

A NEW RATCHET

A REASON OR TWO WHY

THE

McCORMICK

WAS VICTOR IN

46

OF

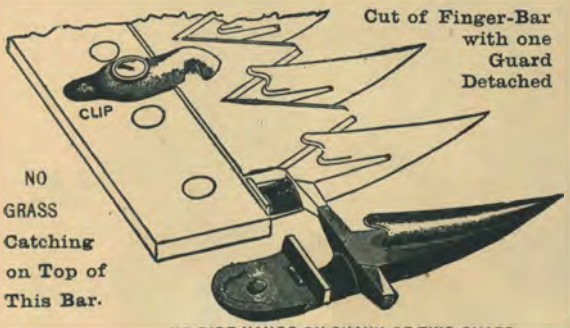
FIFTY-ONE FIELD TRIALS

OF THE

SEASON OF 1890.

It is a principle in mechanics that power is obtained by means of the lever at the expense of movement, hence the higher the wheels, which are but levers turning the axle, the more gearing it takes to get the proper speed for the knife. The friction of gearing wastes power. There must then be a proper mean between the height of the wheels and the amount of gear, and this mean we have, as is shown by mathematical calculations and by experiments in the field. Another point: the width of the main frame and axle should be governed by the width of the bar so that the machine is drawn without side draft. If too wide, whenever the outside wheel strikes an obstruction, or drops into a hole, the horses are badly jerked. The wider the axle the greater the leverage it has on them. The proper width we have determined by experiment. It costs us thousands of dollars per year to experiment, but frequent trials have made the McCormick the king of machines, all around the world.

THE FINGER-BAR AND GUARD on all McCormick mowers are the best. To prove this we put our bars on mowers of other makes, and also put their bars on our mowers testing the draft in each case with the dynamometer. In every instance



Cut of Finger-Bar with one Guard Detached

NO DIRT HANGS ON SHANK OF THIS GUARD.

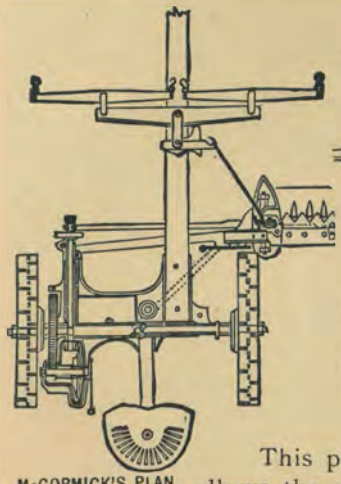
it was favorable to our bar, and in one our bar lessened the draft 37 pounds. Look at the finger-bar carefully when buying a mower.

A CHAFING-PLATE that takes the wear off the rear part of the guard will be furnished if needed.

The trouble with bushings has heretofore been that they could not be kept tight in the frame. Our patented one has a hard, outside shell that can be securely fastened. Ask our agent when looking at this mower to let you see this bushing.

Childhood's Philosophy.

"Supposing we were lost," said Bessie,
" Lost way up here in the hay—
An' suppose we'd go to sleep, too—
What would papa 'n' mamma say?"
" Why, if zay'd tum here to find us,"
Said her blue-eyed sister May,
"An' *did* find us, des zay'd sink 'at
We dot losted in ze hay."



McCORMICK'S PLAN.

THE LONG STROKE.
NO POUNDING NOR JERKING.

TOP VIEW OF THE McCORMICK.

Showing Gear close to Outside Wheel, thus allowing a long Pitman to be used.

THE SHORT STROKE.

IT WON'T DO.

THE PLAN OF OTHERS.

This plan of putting the gearing close to the outside wheel also allows the crank to be kept high from the ground so that the cut crop will not drag on the pitman. It also balances the machine and divides the weight equally on each wheel. These are good features.

There are also on this machine such good points as a FOOT-LIFT, a spring that helps raise the bar, the simplest gear on any mower, and numerous good features that will be readily seen on examination. It is our challenge mower—the best mower made for the medium sized farm.

Out for Business To-Day—Good for 20 Acres.

Reading a Letter from his Farm Superintendent

"The six BIG 4 McCORMICKS have cut the 1200 acres without a break. They are worth any twenty other mowers"

McCORMICK'S MODERN MACHINE.

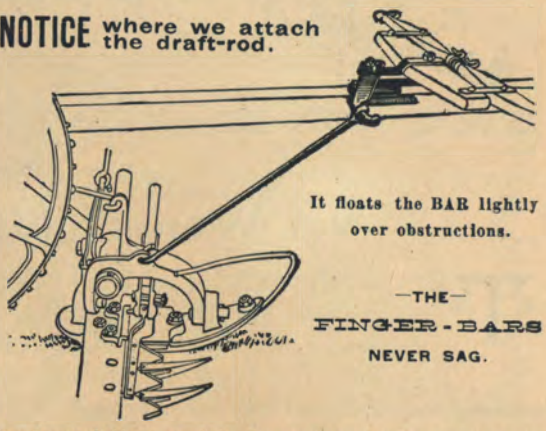
THIS WIDE-CUT MACHINE MADE A WONDERFUL RECORD LAST SEASON. We sent it everywhere and put it into every field possible, without regard to the condition of the surface of the ground, or the kind of grass grown. We sought to bring it into competitive contest with all other makes of

on both wheels and making both help give motion to the knife, is a cause of light draft that none others possess.

"NOW YOU STOP!"

NO FEAR OF SPRINGING THE COUPLING-FRAME when the horses bring the finger-bar with full force against a stone. This is important on a wide-cut mower with its long bar. The draft-rod in this machine also floats the bar, lifts it over obstructions, prevents it from **SAGGING** back, and makes this the best mower made.

NOTICE where we attach the draft-rod.



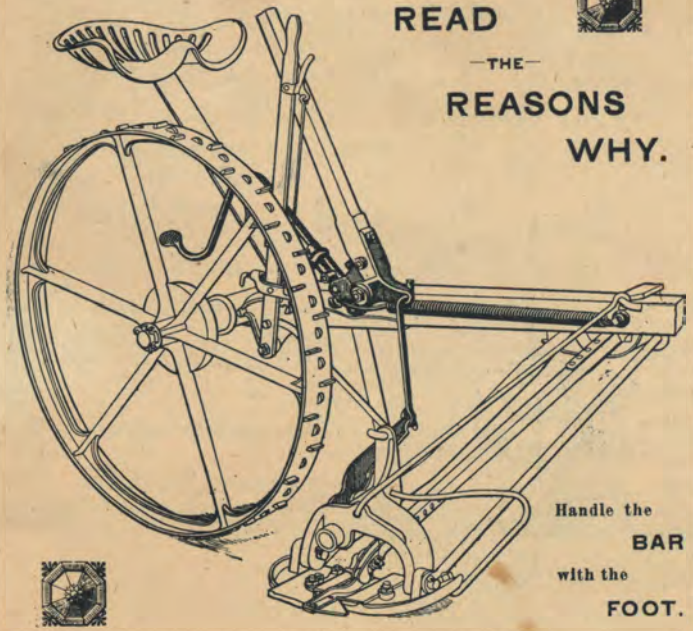
It floats the BAR lightly over obstructions.

—THE—
FINGER-BARS
NEVER SAG.

IN BLACK AND WHITE MARK THIS DOWN

In large letters, and in the center of the page where it will be seen.

THE McCORMICK **BIG 4** IS THE LIGHTEST DRAFT AND STRONGEST CUTTING LARGE MOWER MADE.



Handle the **BAR** with the **FOOT.**

READ
—THE—
REASONS WHY.

1.—The gear, close to the outside wheel, balances the machine.

2.—The gear is the simplest on any mower.

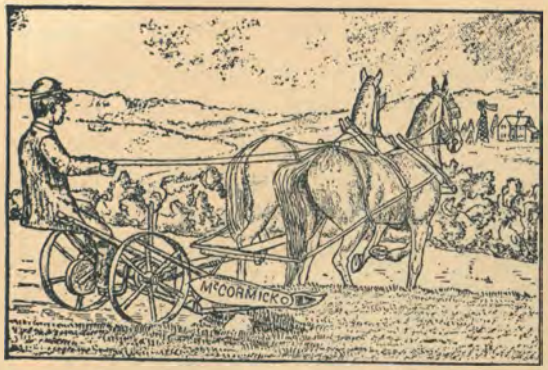
3.—No pounding—the pitman is the longest.

4.—The horses draw from the point of resistance.

5.—The cutting apparatus is the best ever put on a mower.

6.—The rolling tilt binds no part.

TRY this foot-lift the next time you are in town, and see how easily the bar is lifted. Also notice what a neat device it is. When the bar is on the ground the spring holds the lever convenient for the driver, tight enough so that it will not rattle, and when started by the foot is so strong that it aids greatly in lifting.



EASILY OVER THE STONE.

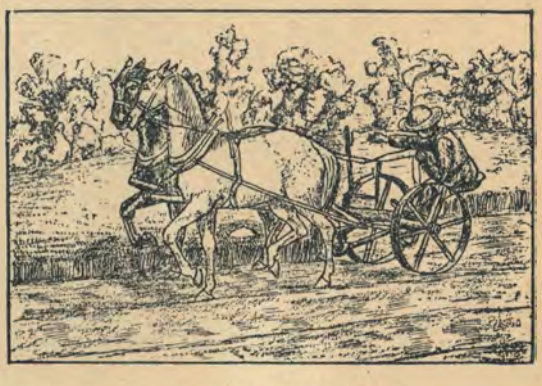
IT IS SAFE WORK.

DRIVING a mower when both hands are on the lines and the driver is well balanced in his seat. The foot-lift carries the bar over the obstructions, and there is no danger.

On the other hand, this reaching for the lever and becoming unbalanced is very dangerous. If the mower strikes a stone or the wheel goes over a hummock,

OFF GOES THE DRIVER.

All McCormick mowers are fitted with this convenient foot-lift. In its neat and tasty attachment to the machine will again be seen the superiority of the McCormick inventors and mechanics over all others.



THIS IS DANGEROUS.

There are many other very desirable special devices found on our mowers which, combined with those already spoken of, have made

THE UNITED STATES GOVERNMENT . . SPECIFY THE McCORMICK

EXPERIMENTING.

THE STANDARD

—FOR—

HARVESTING MACHINES.

CIRCULAR.

U. S. QUARTERMASTER'S DEPARTMENT.

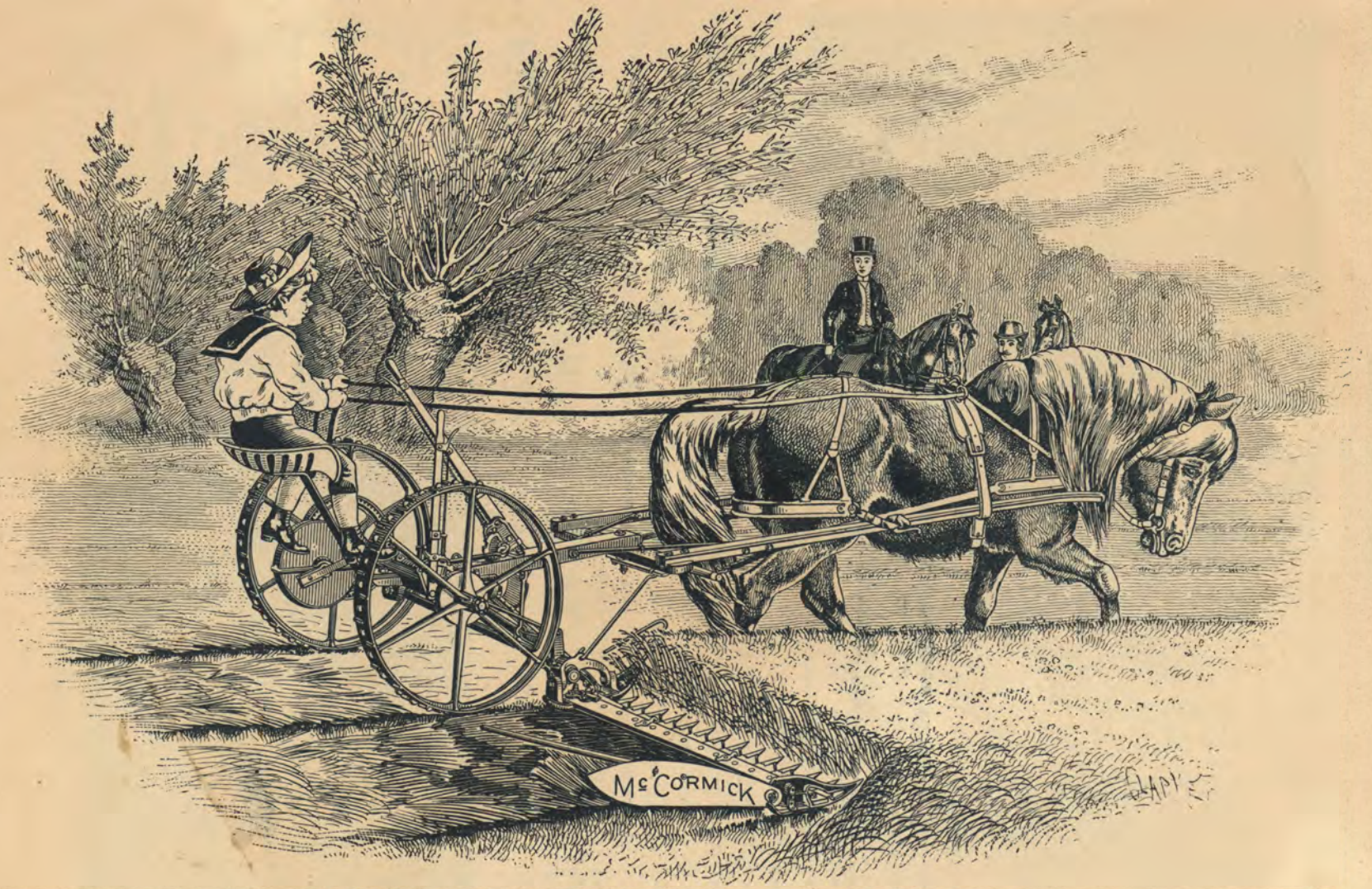
December 31, 1890.

Sealed proposals, *in triplicate*, subject to the usual conditions, will be received at this office until 11 o'clock a. m. (Central standard time), on Friday, January 30, 1891.

Class 14.—Miscellaneous Tools.

Machines, "McCormick."

Thus it will be seen that the Government of the United States gauges all grain and grass cutting machines by a standard—the McCormick.

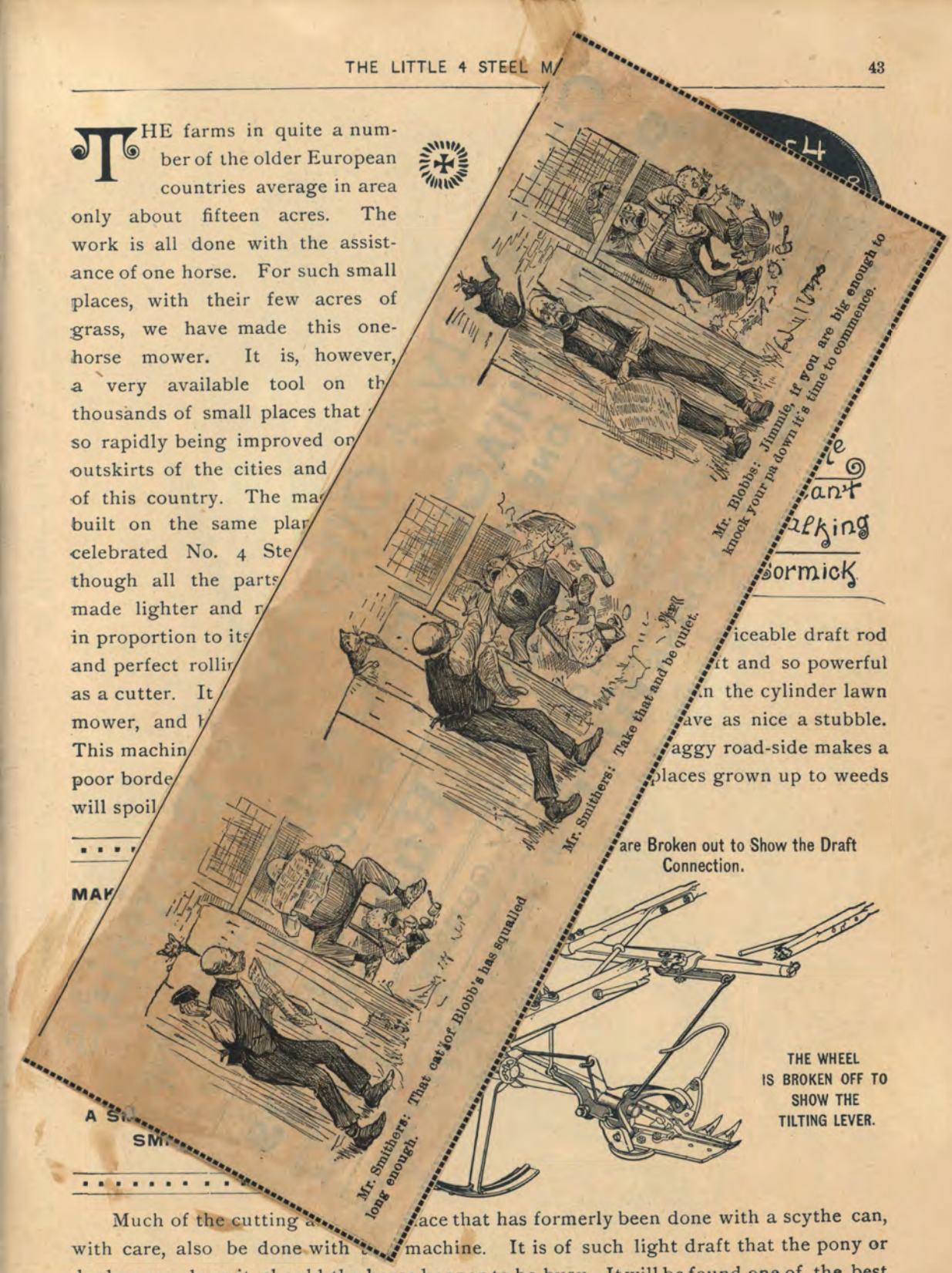


The Baby, the Pony and the Little 4. . . . A Pretty Trio.

THE farms in quite a number of the older European countries average in area only about fifteen acres. The work is all done with the assistance of one horse. For such small places, with their few acres of grass, we have made this one-horse mower. It is, however, a very available tool on th thousands of small places that so rapidly being improved on outskirts of the cities and of this country. The ma built on the same plan celebrated No. 4 Ste though all the parts made lighter and n in proportion to its and perfect rollin as a cutter. It mower, and h This machin poor borde will spoil

MAK

A S SM

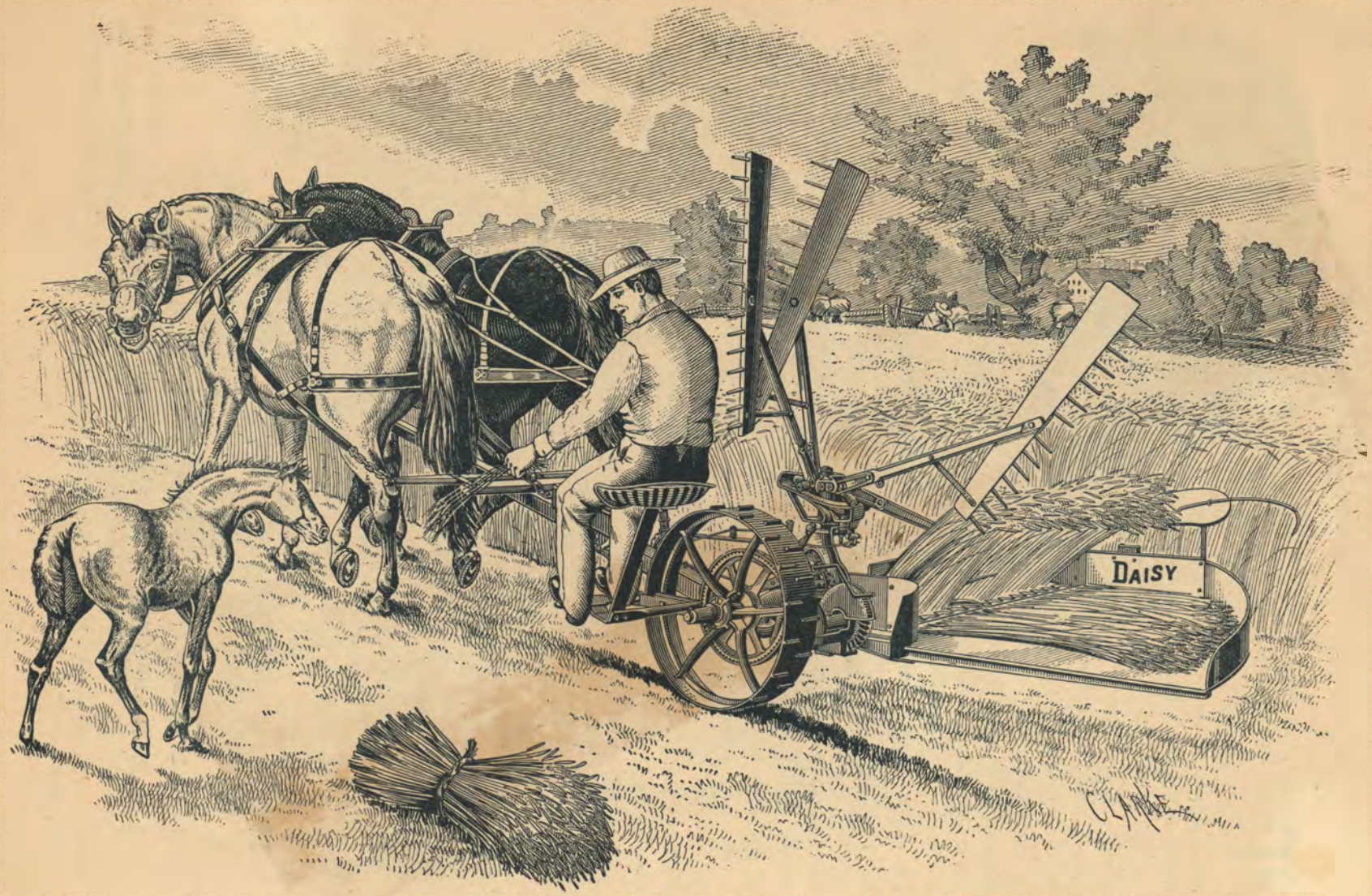


iceable draft rod
it and so powerful
n the cylinder lawn
ave as nice a stubble.
aggy road-side makes a
places grown up to weeds

are Broken out to Show the Draft Connection.

THE WHEEL IS BROKEN OFF TO SHOW THE TILTING LEVER.

Much of the cutting a ace that has formerly been done with a scythe can, with care, also be done with t machine. It is of such light draft that the pony or donkey can draw it, should the horse happen to be busy. It will be found one of the best paying tools about the suburban home.



Growing into Money, and the work is Easy. . . . It Always Pays to buy the McCormick.

THE NEW McCORMICK FOLDING DAISY

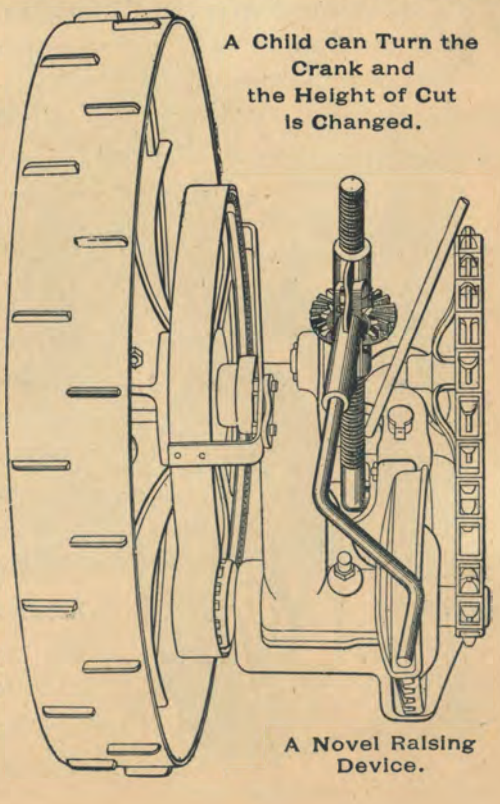
A LIGHT-RUNNING MACHINE FOR LEAVING GRAIN IN BUNCHES.

COMBINING IMPROVEMENTS OF RARE EXCELLENCE.

THE first McCormick Reaper, built sixty years ago, was a single reaper, a one-wheeled machine, and though great and wonderful changes have been made through combined reapers and mowers into harvesters and binders, yet still the demand continues for a light, handy reaper, built simply for cutting grain and raking it off in bundles ready for binding. The McCormick Daisy is such a machine. It has but one main or drive wheel that gives motion to the knife and rake, while a small wheel supports the outer end of the platform. The machine is thus a cart, carrying cutting and raking devices, and balancing and turning as easily.

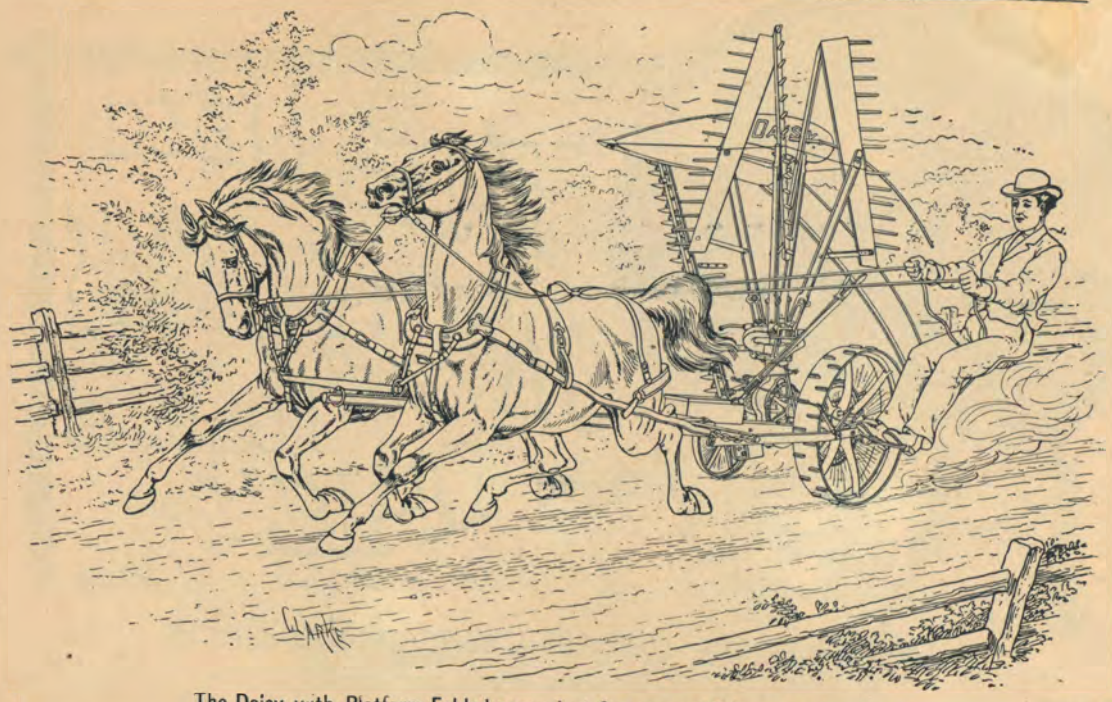
A NEW POINT is the screw and handle for getting the platform to the right height to best handle the grain. This is a feature that will be appreciated.

A TILTING LEVER within reach of the driver rocks the machine, and with the raising crank the worst lodged and matted clover, that even a mower will pass over, can be successfully picked up and cut.



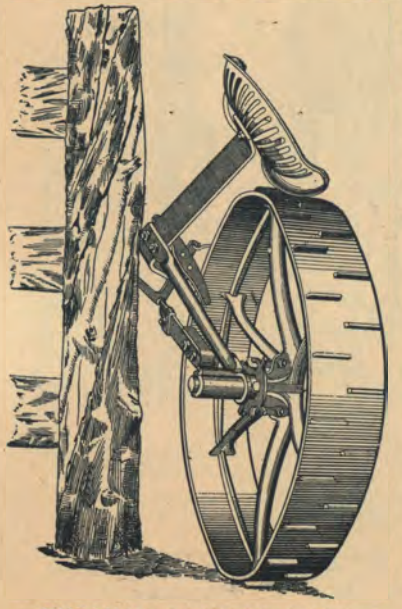
A Child can Turn the Crank and the Height of Cut is Changed.

A Novel Raising Device.



The Daisy with Platform Folded convenient for narrow highways and gates.

THIS turning up of the platform, as shown in the above spirited drawing, allows the machine to be conveniently moved from field to field, along the highways or through narrow gates. It is easily and quickly folded, and will be found a desirable feature. The HIGHEST AND BROADEST FACED MAIN WHEEL found in any reaper carries the Daisy and furnishes power to the knife and rake. It has, however, no cogged rim to fill with dirt and clog the machine. There is a newer, better construction on the Daisy. A spur wheel is loosely mounted on the axle and connected to the wheel by pawls and a ratchet. This spur wheel and spur pinion into which it meshes are shielded from the dirt. This construction will bear examination when it is seen on the machine.



THROUGH A NARROW GATE.

TURN UP THE SEAT or take it out and the Daisy will pass through an eight-foot gate without folding. The hanging of the seat on the outer end of the axle is a good feature, as it places the weight of the driver where it helps counteract the weight of the platform, which is on the inner end of the axle. Traction is also increased, and the balance of the machine, when tilted, is not disturbed.

The Daisy has been well planned.

IT CAN NOT BE BEATEN

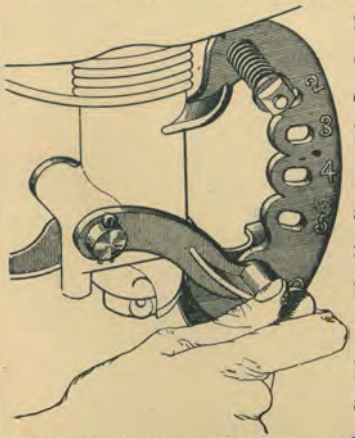
The Daisy's Shapely Bundle.

The Daisy has a high rake standard that has been so set on the platform that the rakes, when acting as reels, drop into the grain and lay it onto the platform in the best possible shape. They do not jerk and tumble the grain as they rise from it, and when the rake sweeps the platform the best bundle made by any reaper is left on the ground.

Bundles whether big or small,
Bundles whether short or tall;
Bundles heavy, bundles light,
Every bundle handled right—
And placed in rows for easy gathering, by

. . . The . . . Daisy Queen of Reapers.

Place the lever on any hole and a bundle will be made whenever that number of rakes has passed. Leave it in the lower hole and use the foot and a bundle can be made whenever enough grain has fallen on the platform. There are many other rare and special features in the Daisy that will repay a careful examination of the machine itself.



THE TRIP-LATCH.

Wrinkles and Dimples.

I know not which I like the best,
The face of youth or age—
I've seen bright pictures of them both
Upon life's pleasing page.
No doubt the smiles of youth we'd keep,
Did we possess the art;
But wrinkles in the face are sweet,
When dimples dot the heart.

"Wife, these horses have finished our harvest, and, thanks to the McCormick Light 'Machine of Steel,' are fit to take First Premium at the County Fair next week."