

32ND ANNUAL

"ONWARD"

CATALOGUE
of



D. M. OSBORNE & Co

AUBURN, N.Y.

U.S.A

HARVESTING

MACHINERY

1888.



1888.

THIRTY-SECOND ANNUAL CATALOGUE.

HARVESTING MACHINERY

MADE BY

D. M. OSBORNE & CO.

OFFICE AND FACTORY,

AUBURN, N. Y., U. S. A.

PERFECTION IN WORK, SIMPLE AND DURABLE IN CONSTRUCTION,
MADE BY SKILLED LABOR AND OF THE BEST MATERIALS, AND
THE OUTCOME OF THIRTY-THREE YEARS EXPERIENCE.

BRANCH OFFICES.

CHICAGO, ILL.

PHILADELPHIA, PA.

ST. LOUIS, MO.

DALLAS, TEXAS.

SALT LAKE CITY.

PORTLAND, ORE.

SAN FRANCISCO, CAL.

DEPOTS.

SIDNEY, N. S. W.

ADELAIDE, AUSTRALIA.

MONTEVIDEO, SO. AMERICA.

BUENOS AYRES, SO. A.

ROSARIO, SO. AMERICA.

PARIS, FRANCE.

D. M. OSBORNE & CO.,

Manufacturers of the

First Steel Frame Self-Binder

EVER MADE!

FORTY-SEVEN THOUSAND

Were at work in the Harvest of 1887, giving universal satisfaction, and
creating a demand unparalleled in the Trade!

IN presenting this Catalogue, our thirty-second annual publication, to our friends, we ask a considerate examination of our Machines and of their claims. We take pleasure in calling attention to the style and beauty of the present Catalogue, the originality of the designs, and the neatness of their execution, the work of the celebrated Lithographers, THE FORBES COMPANY, 181 Devonshire street, Boston, Mass.

HARVESTING MACHINERY

MADE BY

D. M. OSBORNE & CO.,

FOR THE HARVEST OF 1888.



OUR list of Harvesting Machinery for the season of 1888 comprises the grand result of *THIRTY-THREE* years experience in the manufacturing of these implements for the Agriculturalist. We are satisfied only with *perfection*, and to secure it have given the closest attention to all the improvements in our various Machines that the most rigid examination and the most extensive experiments in the harvest field could suggest. Testimonials, ample and unanimous, establish the supremacy of our Machines in every grass and grain growing section of the globe.

- | | |
|--|------------|
| No. 11. Steel Frame Light Self-Binder, | 5 ft. Cut. |
| No. 11. Steel Frame Light Self-Binder, | 6 ft. Cut. |
| No. 11. Steel Frame Light Self-Binder, | 7 ft. Cut. |
| No. 11. Steel Frame Light Self-Binder, with Flax Attachment, 5, 6 and 7 ft. Cut. | |
| No. 11. Steel Frame Binder, with Hand-Binding Attachment, 5, 6 and 7 ft. Cut. | |
| The "Junior" Steel Frame Light Self-Binder, Right or Left Hand Cut, 5 ft. Cut. | |
| The "Junior" Steel Frame Light Self-Binder, " " " 6 ft. Cut. | |
- We manufacture both Right and Left Hand Cut Machines, and with Rear or Front Gear Binders, as may be preferred.

Trucks for transportation of any of the above.

Sheaf Carrier may be attached to either size Self-Binder.

- | | |
|--|------------------|
| No. 8. Light Reel Rake Reaper, | 5 ft. Cut. |
| No. 6. Two Horse Mower and Reaper Combined, | 5 ft. Cut. |
| No. 6. Two Horse Mower, with Dropper Attachment, | 5 ft. Cut. |
| No. 5. Two Horse Mower, Rear Cut, Enclosed Gear, 4 ft. 6 in. Cut and 5 ft. Cut. | |
| No. 4. Two Horse Mower, Front Cut, Enclosed Gear, 4 ft. 6 in. Cut and 5 ft. Cut. | |
| The "Big 4" Mower, Front Cut, Enclosed Gear, | 6 ft. Cut. |
| No. 3. One Horse Mower, Enclosed Gear, | 3 ft. 6 in. Cut. |
| Rice Harvester and Binder, | 5 ft. Cut. |

For Prices, Terms of Sale, and application for Agencies, and the location of Agents, address the home office or our branch house nearest your place of residence.

The Osborne Self-Binder.

Its Necessity: Its Usefulness: Its Claims!

STATISTICS carefully compiled by our government show that the farmers constitute the richest class in the United States. They produced from the farm in the year just past crops valued at *four thousand million dollars* — a supply ample for our people, with a handsome surplus for export. After our home demand is satisfied, the farmer must look abroad for his market; he must compete with the cheap labor of India and of Russia. Our Republic will hold control of the world's wheat market for an hundred years or more, for India and Russia are slow to adopt new ideas; but, when they once possess the **Osborne Reaper and Self-Binder** and our improved harvesting machinery, our posterity will have to wrestle with the question of supremacy. In the production of wheat, an educated American, with his wonderful machinery, must count for many Hindoos, with their wooden rakes and their antiquated methods of harvesting. Notwithstanding our generous soil and the infinite variety of our climate, our average yield of wheat per acre is the same as in the two countries named; and the means for our successful competition with Russia and India in the grain markets of Europe will be found to exist in the *facility of harvesting afforded by our superior implements of husbandry!* An **Osborne No. 11 Self-Binder** or an **Osborne Junior**, in the hands of an intelligent citizen of our Republic, will place our grain in the market of London in competition with the world!

Agriculture affords occupation to nearly three fourths of the inhabitants of the United States, and gives employment to more capital than all the other pursuits combined. The advance of the Republic in wealth, civilization, and power depends on the prosperity of the farmer. On his success hinges the great question of cheap bread, as well as the happiness, the morality, and the intelligence of the nation.

A distinguished political economist recently recommended the reduction in acreage of the farm, and the cultivation of small farms. Without discussing the proposition, we may only suggest that the farmer of 1888 with the **Osborne Self-Binder** and the **Osborne No. 4 Mower** can farm three hundred acres as easily as could the farmer of 1848 till his farm of fifty acres.

In the purchase of agricultural implements and whatever of labor-saving machinery is needed, it is desirable that the farmers do not incur more expense than is necessary for the right management of the farm; but in no other pursuit will the oft-repeated maxim, that "*the best is the cheapest*," be found more true.

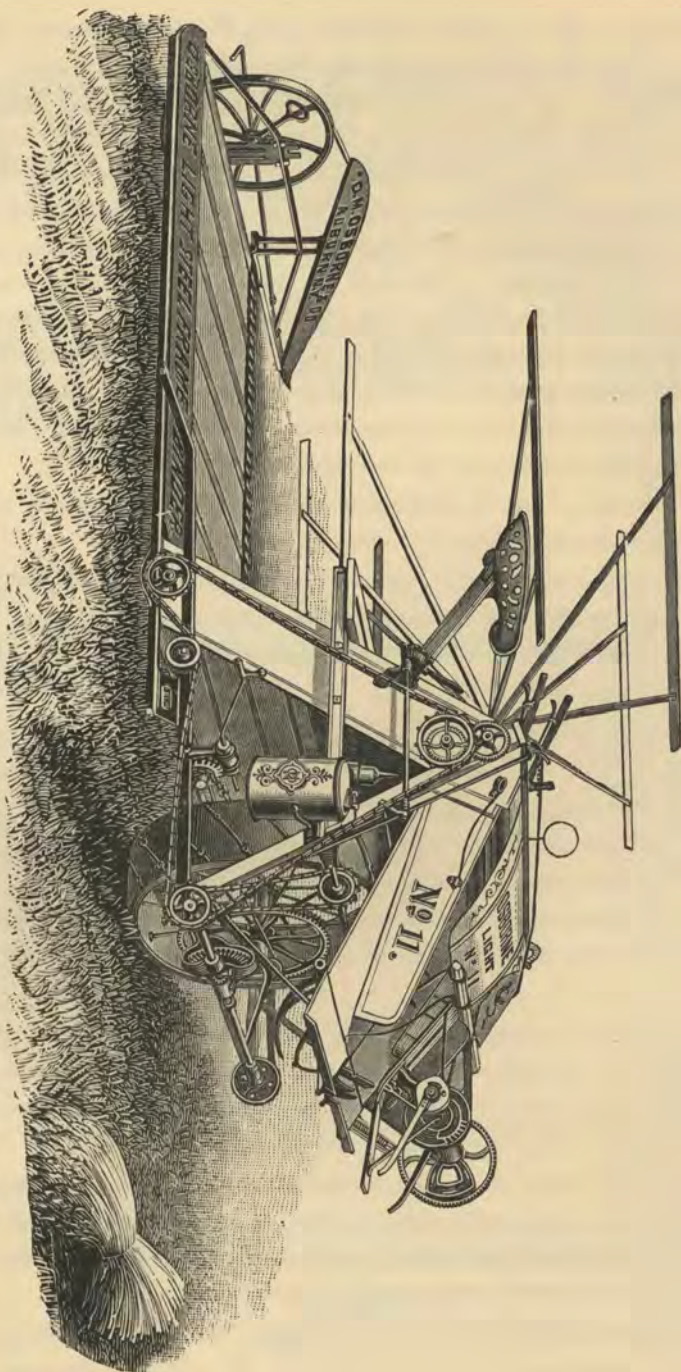


PLATE 1.

The Osborne No. 11 Steel Frame Light Self-Binder.

(FRONT GEAR.)

The **Osborne No. 11 Steel Frame Self-Binder** is known by the agriculturalist everywhere. It is the first steel frame Self-Binder ever made; it has won a reputation unchallenged. It is practical, dispensing with all parts not essential to its work; it combines strength with lightness, and is the result of intense thought and numberless experiments in the harvest field. The season of 1887 was a triumphant one for the **Osborne No. 11 Self-Binder**! Words of praise, unreserved and unstinted, without a discordant note, come to us from every grain-growing section; the distant Australia contributing its voice to the chorus. Not an adverse criticism has found expression anywhere! On this unprecedented success we base our claim that the **Osborne No. 11 Self-Binder** leads all competitors, and is the machine that is to keep our farmers in the front in their contest for the control of the markets of the world! MADE OF THE BEST MATERIALS, UNDER THE MOST EFFICIENT SUPERVISION, BY SKILLED WORKMEN, WE STAKE OUR REPUTATION, GAINED BY THIRTY-THREE YEARS LABOR, ON ITS SUPERIOR MERITS!

We call attention to the illustrations of our machines, which give a faithful representation of their construction and appearance. (No. 11, plate 1, p. 5.)

On page 7 we give the ground plan of the **Osborne No. 11 Self-Binder**, and on page 9 we produce a sectional view of the **steel frame** part of it. A study of these plates will give the reader a definite and clear idea of the simplicity, strength, and durability which constitute the merits of the machine.

In **Plate 2**, the letter *A* directs attention to the main wheel, and by reference to illustration (plate 4, page 9,) you can see what a grand good wheel we have. It is composed of six malleable iron interchangeable segments, supported by twenty-four steel spokes firmly secured to a pipe box hub with malleable iron bands. The gearing is bolted to the hub of the wheel, and the slightest movement imparts motion to the driving shaft, *B*. The malleable iron hangers, *C C*, on either side of the wheel (note position of same in illustration on page 8) are firmly secured to the steel trusses, *D D*. Observe how easily these may be removed if necessary.

The two trusses are securely held at their extremities by steel frame pieces, *E E*, to which they are firmly bolted through malleable corner pieces, *F F F F*. Note on page 8 the position of these corner irons, which are so placed as to give the greatest possible strength at the junction of the ends of the trusses, *D D*, and the frame plates, *E E*.

The steel frame pieces, *E E*, are substantially joined to the steel angle-irons, *G* and *H*, by the splice plates, *I I*. Four years active service has demonstrated that this combination is the only one which is practical and durable; machines constructed after some other fashion have sagged badly, and the gears in consequence have been soon destroyed.

A simple worm gear, *K*, raises and lowers the machine according to the cut desired. The rollers, the bottom boards, and the pitman are the only parts illustrated which are of wood. All the rest is of steel and malleable and wrought iron.

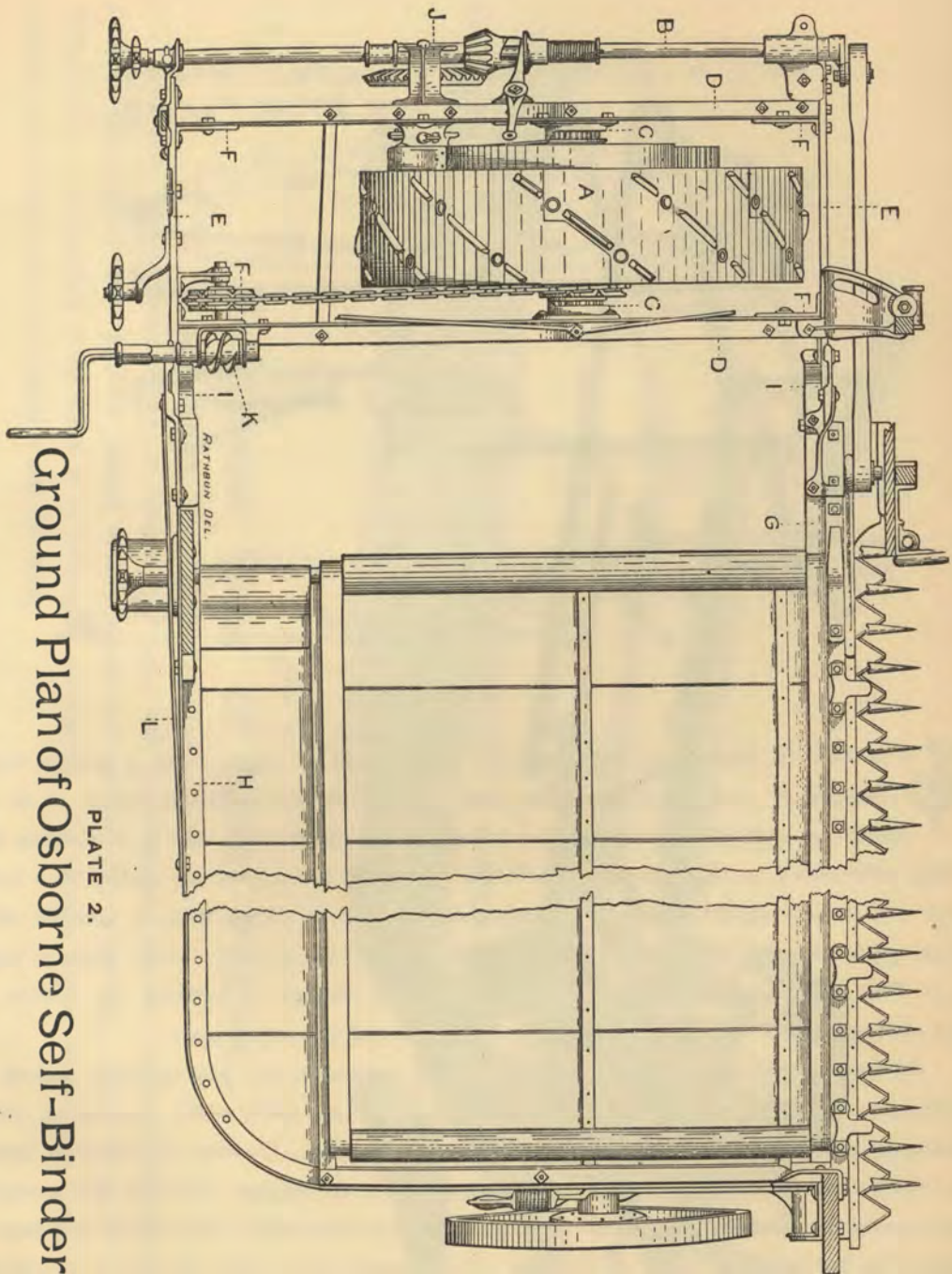
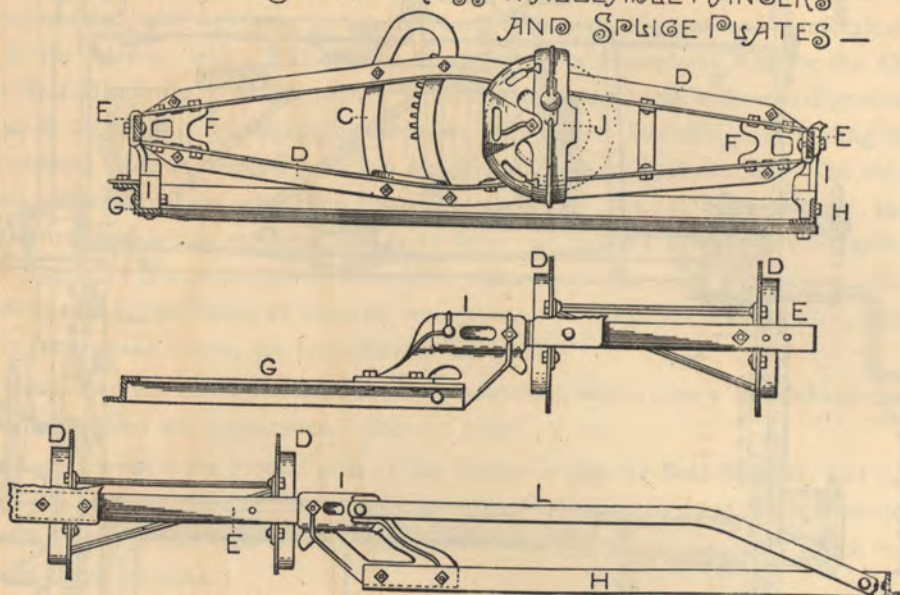


PLATE 2.

Ground Plan of Osborne Self-Binder.

PLATE 3 - STEEL TRUSS MALLEABLE HANGERS
AND SPIGGE PLATES -



THE ABOVE illustrations are relative to plans shown on pages 7 and 9, and the same lettering in each refers to similar parts. The Z shaped angle-iron shown at G, to which our malleable iron guards are bolted, shows conclusively that it is possible for THE OSBORNE to cut extremely low. The points of the guards are nearly on a level with the bottom of the platform; consequently, the cut is closer than is possible with other styles of machines, and yet all parts ride clear of the ground. (See plate 9, page 15.) This great advantage is gained by our improved method of building the bottom of the platform, which is protected by our well-known steel protecting plate.

Notice that the malleable iron shield, J, fully surrounds the gearing, thus making it impossible for the admission of foreign substances. These parts where exposed on other machines are quickly cut out, thus necessitating new gearing. Observe the platform brace, L, which supports the rear centre of the platform, prevents sagging, increases the strength, and makes the platform more rigid. Our platform is so thoroughly constructed and braced that it is impossible to get it out of line. You cannot find another Harvester Bottom so thoroughly well built in every particular as THE OSBORNE.

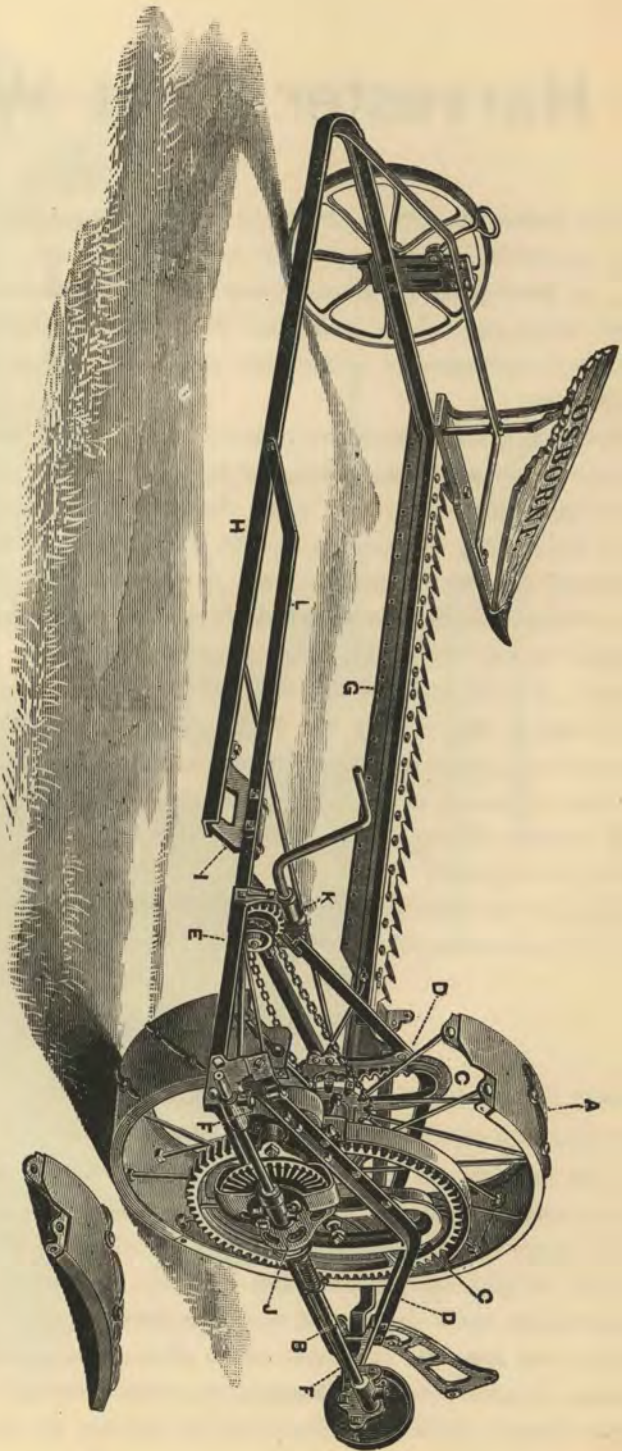


PLATE 4.

Sectional View of Steel Frame.

Illustrating the steel truss, position of hangers, road wheel with interchangeable sections, finger-bar with steel protecting plate beneath, and the steel angle-bar passing entirely around the machine, thus completing a frame entirely of steel and wrought iron. No machine in the world is so thoroughly constructed. No machine has so substantial a foundation. No machine can compare with it in strength and durability.

A Harvester That Will Endure!

 HE farmer has been as forward in encouraging progress as any person in the world. He is constantly inquiring for the new and the best. He is an incentive to the mechanic to develop farm machinery, and this line of invention has been second to no other. America is the home of the *Reaper* and the *Self-Binder*; here it has developed and progressed until it has culminated in a Harvester *practically indestructible*, "**The Osborne All-Steel Self-Binder!**"

Referring to the illustrations in this catalogue, it will be seen that the *entire frame* upon which the master-wheel and gearing are mounted—in fact, all the mechanism for making and transmitting power—is *made of steel*. The frame therefore is compact and powerful, and will support the shafting and gearing steadily, reliably, and for a time more than double the life of an ordinary machine. *It will hold the gearing in line*, and will answer all calls upon it for work under all conditions and on any land. The main wheel is light, yet powerful and perfectly adequate to resist the strain that necessarily falls upon this master-mover of the entire machine. It is the strongest sectional main wheel made, and is so constructed that, should it be necessary to take it apart for any cause, the farmer, by loosening the bolts with a wrench, can remove or replace the parts without assistance. This wheel is from *one to three inches* wider than those commonly in use, and this increased width gives steadiness to the application of power, renders slipping and sliding less liable, and reduces the draft. *Composed of the best material, it will endure.*

Examine for yourself our **No. 11 Self-Binder**, and become convinced, by personal investigation, of its incomparable merits.

WARRANTY.

All Osborne machines are sold subject to the warranty below, and no agent has any authority to change the same:—

"All machines are warranted to be well built, of good material, and capable of cutting, if properly managed, from ten to fifteen acres per day. If, on starting the machine, it should in any way prove defective, and not work well, the purchaser shall give prompt notice to the agent of whom he purchased it, and allow time for a person to be sent to put it in order. If it cannot then be made to do good work, the defective part will be replaced, or the machine received back from the purchaser at the office of the agent from whom it was purchased, and the money or notes returned. Keeping the machine during harvest, whether kept in use or not, shall be deemed conclusive evidence that the machine fills the warranty."

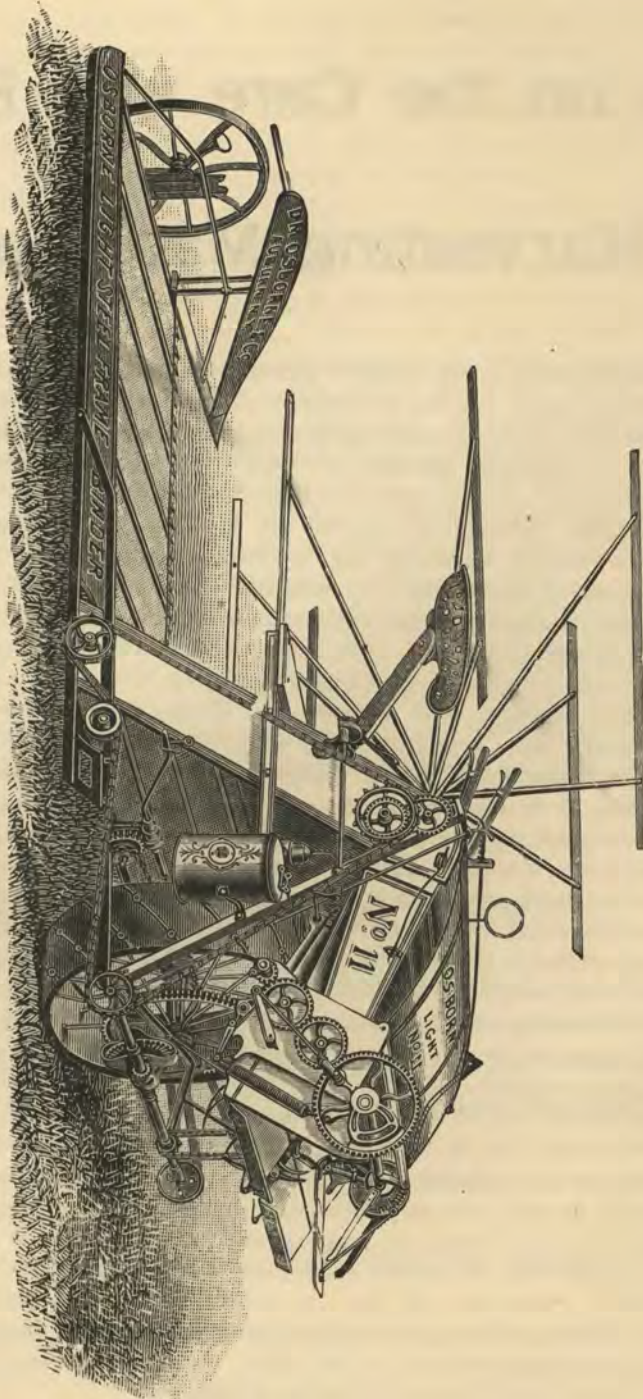


PLATE 5.

The Osborne No. 11 Steel Frame Light Self-Binder.
(REAR GEAR.)

Hints on the Care and Running

OF

Harvesting Machinery.

IT is the constant study of the inventive genius to lighten the labor of the agriculturalist by putting into his hands the *best*, the *cheapest*, and the most *useful* tools for the doing of his work. But when the *perfect* machine has been created, such as the **Osborne Steel Frame Self-Binder** or the **Osborne Mower**, and placed in the hands of the farmer for use, it is important that he should possess some knowledge of the working of his machine, and that he should, for the better success in its use, and for economy as well, acquire some education in this line; and a practical knowledge can be secured easily, quickly, and by ordinary observation. *The best way to lighten labor is to know how to conduct it.*

We know from our long experience in manufacturing harvesting machinery that it is subjected to more severe and apparently more unreasonable demands than any other class of machinery. The Harvester must work, not only in dust and dirt, but it is drawn over stones and stumps, and along the hard highway; it is dropped into ditches and dead furrows; it is tipped into holes, and run on side hills; it travels over all conceivable kinds of rough and uneven ground, where it would be impracticable for the lumber wagon to follow. And yet, under all these adverse conditions, it is expected to do good work, and, like a plucky athlete, "come up smiling" after every knock-down. Such severe tests are confined to harvesting machinery.

In contrast to this, how different is the treatment of the locomotive, one of the grandest achievements of the mechanical mind! Running on its level rail of steel, after its flying trip of a few hours how graciously it is treated! Taken to its stall in the round house, it is carefully examined by men skilled in the business; each part is thoroughly cleaned, and every bearing is systematically oiled, before it is allowed to repeat its journey. *How is it with the Harvester? Too often* it is left standing, after its day's work, where the close of the day found it, in dust and dirt, uncovered, neglected, the rain the only cleaning it will receive! And it frequently happens that, when the farmer resumes his work in the morning, he may squirt a little oil at the oil cups, unmindful whether the oil reaches the bearings or not, and the harvester is put to work. The farmer soon notices that his team is laboring, that the machine runs hard; he puts on the *whip* instead of the oil, and the inevitable result follows—his team refuses to draw, the machine fails to do its work, and an examination discloses the fact that some vital part has been so cut and worn that it has to be replaced and "*extras*" ordered! And all this trouble, *not the fault of the machine*, but because its operator did not *spare a few minutes in cleaning and oiling his harvester!* Some men will hitch to a new machine and drive ahead as long as a wheel will turn. *To do good work*, the machine, be it Self-Binder or Mower, must be well oiled at the beginning, and kept well oiled to the close; the slower moving parts do not require so much oil, nor so often, as the smaller and faster movements.

The vital parts of the harvester are the road wheel shaft, the spur pinion, or what is called

the second shaft, and the crank shaft. To oil these parts, there are two oil holes in the road wheel, one at the bearing of the spur pinion,—which is the most important of all, as it is the prime mover of all the machinery,—and three oil holes in the crank shaft. Take good care of these parts, and they are good for years, and will last as long as any other part of the machines. The proper thing for the farmer to do is to take his knife or pick and open the oil holes, and see that they are open, and that the oil can flow freely into the bearing.

In regard to the oiling of the Binder, we think you will be impressed by the importance of the suggestion, that there is not the steady, hard labor on the Binder that there is on the main frame of the Harvester; consequently there is no necessity for oiling quite as often the first as the second. At the same time every part of the Binder should be looked after carefully, especially the packers and the butter canvas. There is no binder so well constructed for convenience in oiling the packers as the **D. M. Osborne & Co. Steel Frame Binder**. On examination, a tube will be found on the side of the packer that comes up through the deck. By simply putting a wrench on the square shaft and turning the packers around, the oil tubes will be in plain sight from the deck, and will suggest a generous supply of oil.

The Harvester should be properly adjusted to the kind of grain that is to be cut!

The cutter-bar should be level; the back of the platform slightly elevated; the reel adjusted so as to tip the grain gently on the canvas, without throwing the grain out of shape, and the Binder should be so regulated as to put the *band in the centre of the sheaf*.

The **canvas** has an importance to be noted; *do not buckle it too tight, but snug and smooth.*

The **twine** is also an important factor; it should be uniform in size, and of equal strength. Our twine is made by first-class manufacturers, and possesses all the desirable qualities.

To sum up: *A well-oiled machine is economy in wear, and of great mercy to horses; a well-adjusted machine means good work; a well-cleaned machine is a "thing of beauty and a joy for ever;" and a well-housed machine will be ready for the golden harvests of many years.*

FACTS WORTH RECALLING.

The **OSBORNE STEEL FRAME SELF-BINDER** was the first **ALL Steel Frame Machine** in the Market, and furnished the model for all imitators.

It is mechanically correct in its construction and fully warranted.

The materials used in its manufacture are the best that can be found in the markets of the world.

Its workmanship is the special pride of its manufacturers, and the closest inspection is invited.

It combines the desirable features of all First-Class Binders, and has many more peculiar to itself.

It is the embodiment of all that skill and capital can produce.

The ambition of its manufacturers has been to make the very best.

An unprejudiced, careful, and thorough inspection is most earnestly requested.

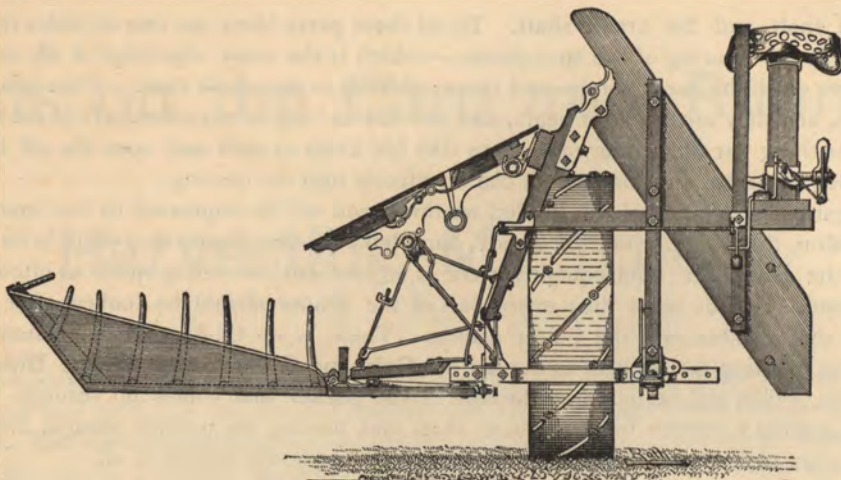
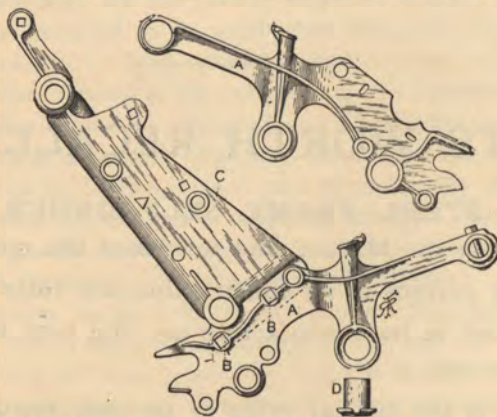


Plate 6.—The Osborne Quick Detachable Sheaf Carrier.

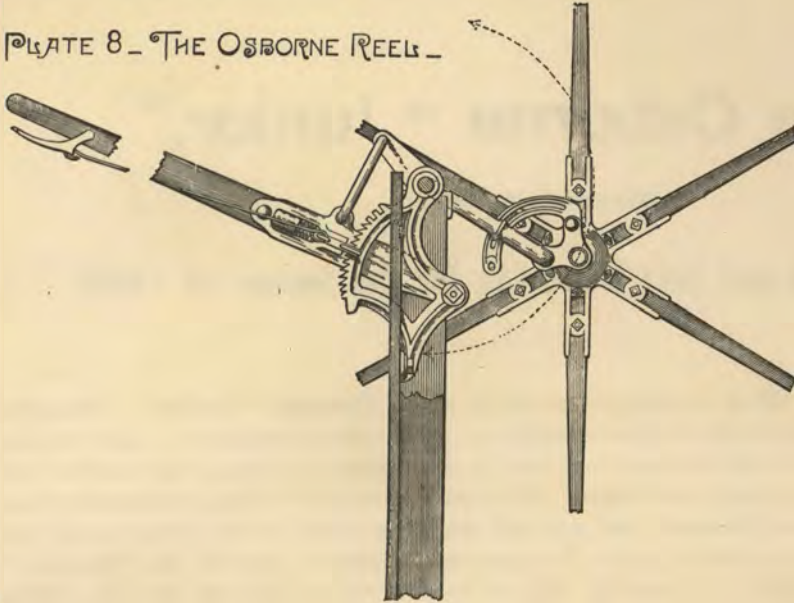
This admirable invention gave excellent satisfaction to our patrons in the harvest of 1887. It is easily operated, quickly attached to and detached from our Harvester, and will carry from four to six bundles. In ordering, please indicate the Self-Binder it is to be used on; whether our No. 11 or our "Osborne Junior;" give also year of purchase and the number on back rail of bottom of machine.

Plate 7.—Malleable Sills.



It is a well-known fact that the sill or supporting frame of a Binder requires both strength and rigidity in order that the working parts may move freely and in perfect adjustment. This, at considerable additional expense, we have secured by making the sills of malleable iron, an outside view of which is shown in elevation at *A* with the binder frame, *C*, secured thereto by the bolts, *B B*. The upper figure shows an inside view of the sill, *A*, giving a true idea of the construction. We employ a removable bushing shown at *D*. Many Binders are made with a solid bearing at this point; hence, when worn, the entire binder frame must be discarded. By our bushing device the worn part may be easily and quickly replaced, at slight expense, without interfering with the frame or sill.

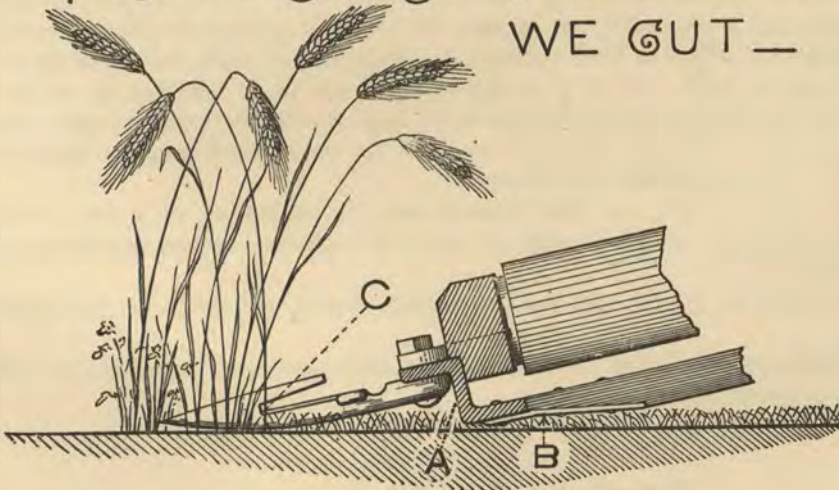
PLATE 8—THE OSBORNE REEL—



Our Reel, used for the first time in 1887, is all that can be desired. This is controlled by a single lever, and is easily and quickly placed in any desired position. This adjustment is perfect, as it can be placed in just the right position to pick and reel lodged grain back to the cutters, and place it in proper position upon the conveying canvas. The arm that supports the reel is one and one quarter inch steel, and the bearings upon which it is worked are so connected that they

not only greatly facilitate the adjustment of the driving chain, but make it an utter impossibility to throw the reel out of line. No reel made can be carried so far back of the knives and over the conveyer as the OSBORNE; no reel has so large a scope of adjustment; no reel has so fine an adjustment—it may be moved but a fraction of an inch at a time, if so desired. Its construction is simple, and it is as light as can be possibly made for the work which is required in heavy, down, and tangled grain.

PLATE 9—SEE HOW LOW WE GET—



If you want to cut your grain close to the ground, you must use a STEEL FRAME SELF-BINDER. Notice in the cut the double angle-iron, *A*, to which is riveted our well-known steel protecting plate, *B*.

This is now universally recognized as a very important feature, and has been cheaply imitated by other manufacturers. At *C* we

illustrate the point of contact, at which position the knives strike the grain, thus leaving a very short stubble.

Other machines with heavy wooden sills, where we have a steel double angle-iron, cannot under any circumstances operate as close to the ground.

The Osborne "Junior,"

(Illustrated on Page 21.)

Right Hand and Left Hand Cut for the Season of 1888.

 WE take pride in calling attention to the merits of the Osborne "Junior," a Harvester that was constructed with special reference to the public demand for a light running Self-Binder, that can be drawn with ease by an ordinary sized team, and handled with as little difficulty as a common road wagon. Since its introduction to the agriculturalist it has won golden opinions from thousands, and is as well and as favorably known in the harvest field as any machine that ever gathered grain. It seems unnecessary to speak of the "Junior;" its reputation and popularity are assured. We are flooded with testimonials from the leading farmers of the country, referring to our "Junior" in terms of commendation that would almost seem, were we to adopt them, as exaggerations. We believe sincerely that the "Junior" is the finest piece of workmanship, the most ingeniously contrived, and the most artistically, as well as practically, made machine now offered to the farmer. We renew and restate our claim made a year ago, and vindicated by its work in the harvest field of 1887, that the Osborne "Junior" Self-Binder is the *best harvesting machine that has come from the hands of man!*

The elevation of the "Junior" Self-Binder is considerably less than those of other makes; it is compactly built, many parts being made shorter and lower; in fact, we have reduced its size as far as safety and practicability will permit. Thus we have produced a Binder which is the **lightest in weight** as well as in draft, yet equal to every class of work, and as strong and serviceable as any machine built. As to its durability, there can be no question, as we have built it of the *very best material*, having substituted **steel and malleable and wrought iron** for common castings; and for the past seasons it has stood the test of hard usage so admirably as to win the title of "**Incomparable Excellence.**"

Our "Junior" and our No. 11 Self-Binder may be considered as a test of the capacity of our establishment; the grand result of years of experience in the manufacturing of harvesting machinery!

All the parts subject to friction and wear are milled, planed, or faced, and thoroughly finished.

Examine the Osborne machines before placing an order elsewhere. Investigation will convince the practical farmer of their superiority.

NOTICE!

We shall manufacture for the season of 1888, and will be prepared to supply, as may be desired, the Right Hand and Left Hand Osborne Junior, Front Gear or Rear Gear.



NIGHT SCENE AT D.M.OSBORNE & CO'S. MAIN WORKS,AUBURN,N.Y. U.S.A.



NIGHT SCENE AT D.M.OSBORNE & CO'S. MALLEABLE WORKS AND ROLLING MILL.

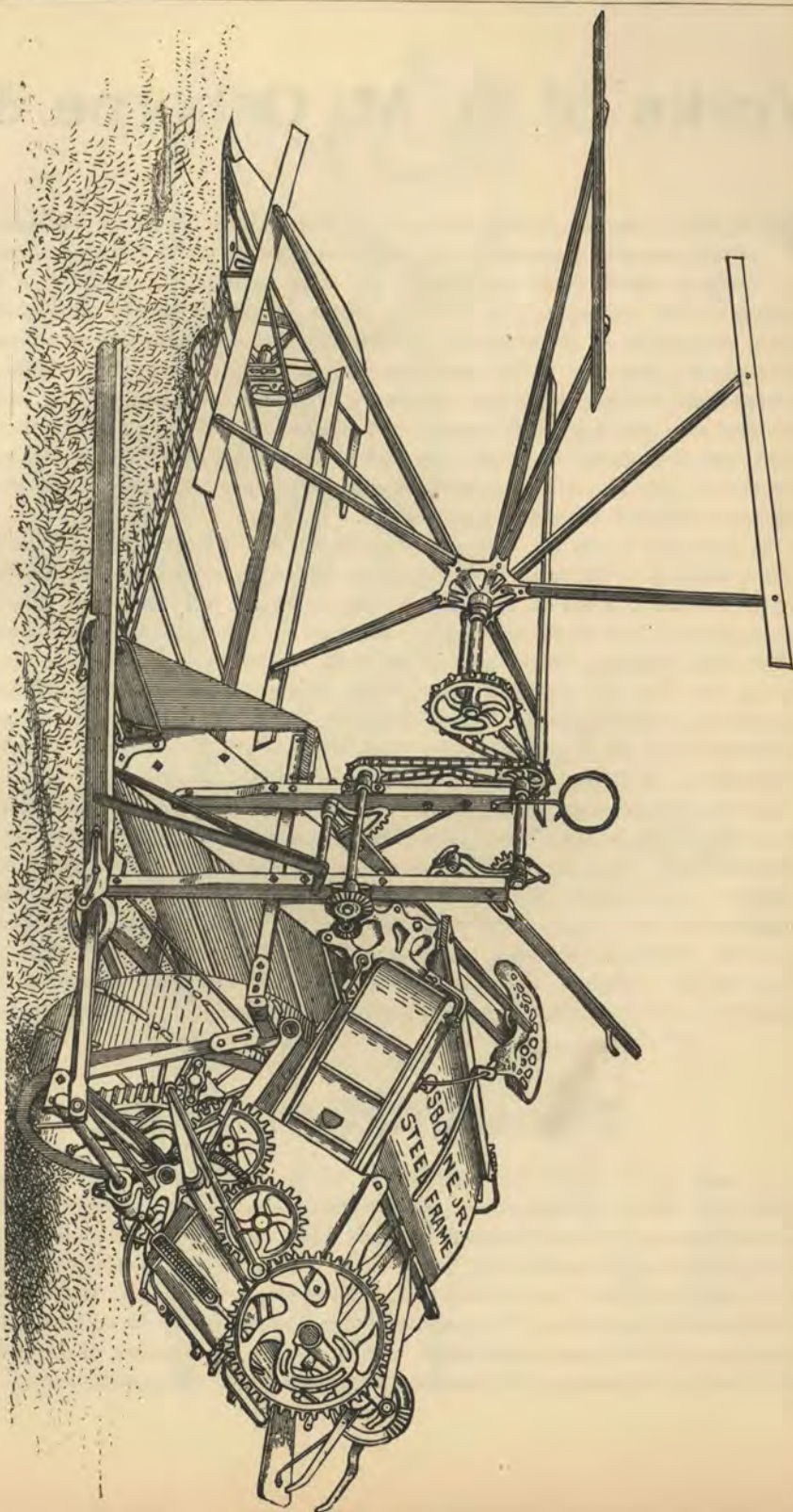


PLATE 10.

The Osborne Junior Steel Frame Light Self-Binder.

Works of D. M. Osborne & Co.

PROBABLY very few persons of the many thousand who read our catalogue have any idea of the enormous space required, and the magnitude of the plant necessary, to conduct a business which gives employment to 1,600 persons, the product of whose work is illustrated in this catalogue. In order to enable those who may be interested to form some adequate conception of our works, we present herewith two spirited illustrations thereof. It is quite impossible, however, by two small sketches, to convey any intelligent idea, not only as to their magnitude, but also of the vast amount of work performed beneath the many roofs. The reader must stop long enough to consider the number of buildings, the fact that many of them are four and five stories in height, and each of the several floors in every structure is teeming with industry; that all work is performed with the greatest economy of space, and facilitated by the most improved labor-saving machinery.

The principal works are located on the Owasco River, in the heart of the city of Auburn; the office, which is in the foreground, facing on the principal street. This building in 1866 was ample for the entire needs of the business; but in twenty years time this mammoth plant has grown up about it; and to-day the original structure is used solely for office purposes.

The three buildings immediately in the rear of the office are used as machine shops for fitting up the iron and steel portions of the machines, the lower floor of the third building being used as a shipping-room. The foundry, blacksmithing, and forge buildings, as well as the departments where we manufacture our nuts, bolts, rivets, and washers, stretch away beyond the "Number 4" building; these structures cover six acres of ground.

On the opposite side of the street is a cluster of buildings, numbered respectively from eight to fifteen, inclusively; the first of these is a mammoth structure, 250 feet in length, with 100 feet frontage. This portion of the works covers about four acres of ground.

Nearly a mile distant and connected with the main works by a railroad owned, equipped, and operated by the company, and which, with its five miles of tracks, cost nearly \$100,000 to build, is the "Malleable Works," "Rolling Mill," and Warehouses; the latter having capacity sufficient for the storage of 15,000 machines. The power required to operate the machinery is furnished by 1,200 horse-power engines, augmented by water to the extent of 300 horse-power.

Transportation Trucks.

On page 23 we show the most simple device yet invented for the transportation of machines over narrow bridges, roads, or through gateways. It requires but a few moments to mount the Harvester on the OSBORNE TRUCK, and by a novel arrangement the driver can turn his team to the end of machine in line with the cutting apparatus, without detaching the pole; and, by attaching brace to eye in gear plate and pole, he is ready to move, having placed axle and wheels under the frame. The great trouble in Transportation Trucks for moving Harvesters has been that all have been complicated, and too much time has been required for their attachment. This is overcome on the OSBORNE TRUCK, as a look will readily prove.

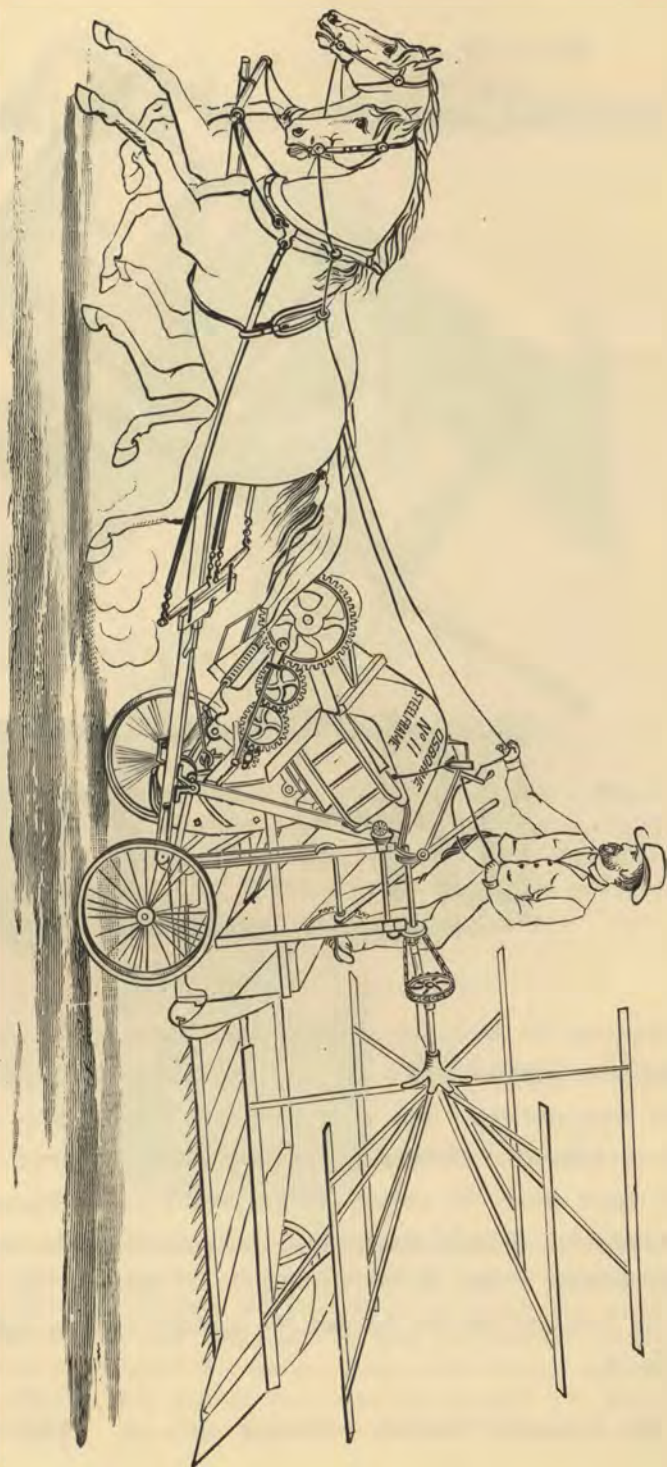
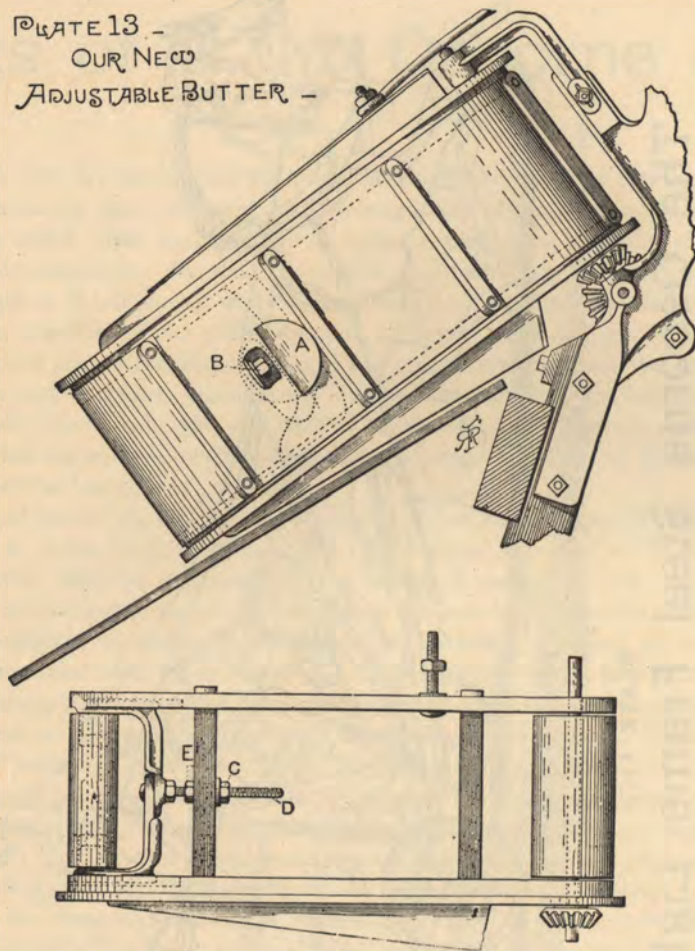


PLATE II.

The Osborne Steel Frame Light Self-Binder.

Mounted on Trucks for Transportation on the Road.

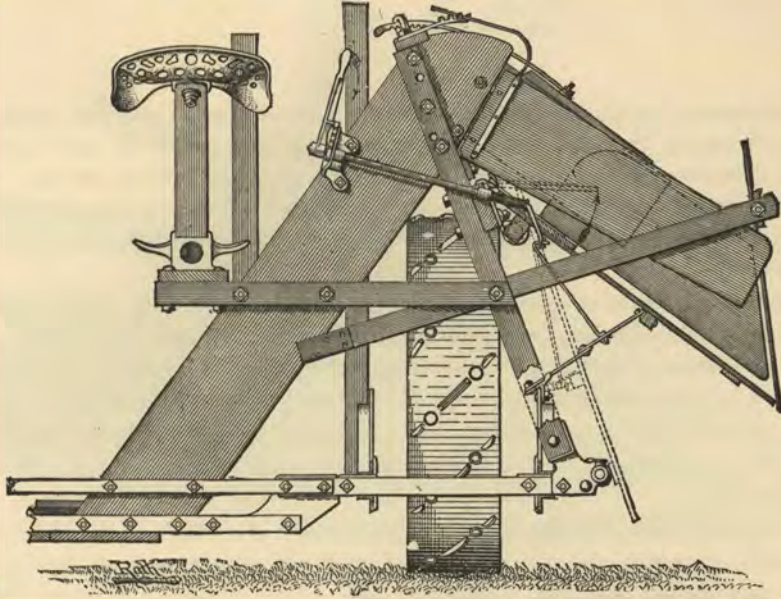
PLATE 13. -
OUR NEW
ADJUSTABLE BUTTER -



WE employed the above Butter Device upon our machines during the season of 1886 and 1887 with the utmost success. *Its simplicity and practicability are acknowledged by every operator.* This is an Extension Frame Butter, so constructed that the *canvas may be tightened or slackened, as may be desired, without the use of straps and buckles.* The upper figure shows the correct position of the Butter Frame and Canvas, with the flap, *A*, turned back, showing the eyelet, *B*, through which the adjustment is made. The lower illustration is a view of the frame work in detail. The adjustment is made by tightening or loosening the nut, *C*, upon the elevator bolt, *D*, and is kept in position by the lock-nut, *E*.

This desirable feature is found only on THE OSBORNE.

Clover and Flax Attachment.



Our Clover and Flax Attachment is simple and effective; and, with an **Osborne Self-Binder** thus equipped, the farmer can gather his seed clover and his flax with ease and economy. In ordering this attachment, please indicate whether it is intended for the **Osborne No. 11** or the **Osborne "Junior;"** give also year of purchase and the number to be found on back rail of bottom of the machine.

The Osborne



Binder Twine.

THE BEST SELF-BINDER manufactured cannot do good work if an inferior quality of Twine be used. A poor article is dear at any price. The breaking of the Twine, stopping, rethreading, and the binding by hand of the missed bundles will cost you in the end twice as much as a first-class quality of Twine. We claim for the Twine we offer that it is longer to the pound, more uniform, smoother, freer from bunches and thin spots—hence, much stronger and more reliable—than any other Twine offered. It is marked by a small tag stamped "**D. M. O. & Co.**" Sold by our Agents everywhere.

The Osborne No. 8 Light Reaper.

E are warranted, by its continuous successes in every grain-growing section of the globe, in saying that the **Osborne No. 8 Light Reaper** is the most perfect Harvester that ever entered a field of grain! It is light, symmetrical, strong. It is constructed, as far as its *vital* parts are concerned, of steel and malleable and wrought iron; and by this combination we have imparted strength, reduced its weight, and advanced its sterling qualities to the maximum.

It is adapted to all kinds of grain, and can be used in harvesting crops on hilly land, where an exceedingly light-draft machine is an important consideration. For *lightness of draft, compactness, and convenience of operation it stands unsurpassed*, and the 65,000 in use to-day attest its complete ability to secure the heaviest crops of grain in any part of the country.

THE DRIVE WHEEL is of large diameter, and has a very broad rim, which, coming in contact with the ground, prevents slipping, insuring a more positive motion than is possible with a narrow-wheeled machine.

THE RAKES are automatic, yet the devices employed are so simple that a child may regulate them. Though self-acting, through a system of gears, the driver secures absolute control of every motion, and the action can be changed at will.

Arrangements are also made for holding the gavel on the platform, carrying it round the corner, or discharging it at any time the driver may desire.

THE PLATFORM may be easily adjusted to any desirable height, and the seat is attached in such a manner that it may be arranged for the *different weight* of persons, thereby preventing any weight whatever on the horses' necks.

STORAGE AND FOLDING.

An excellent feature is the ease with which this machine may be put in shape for storage or traveling on the road; a glance at the cut will illustrate how nicely this is accomplished.

This REAPER has performed its work perfectly and satisfactorily everywhere, and is fully warranted. It is a complete success, and thousands of testimonials give evidence of its unparalleled performance in practical field work. Its sales have so far exceeded our expectations that we have been obliged every year since we commenced its manufacture to increase the annual produce.

If you expect to buy a Light Reaper, you should have our agents show you the **Osborne No. 8**. In every grain contest it has come out victorious, and the man who would have the *most perfect* REAPER must purchase the **Osborne No. 8** — "Queen of the Harvest Field."

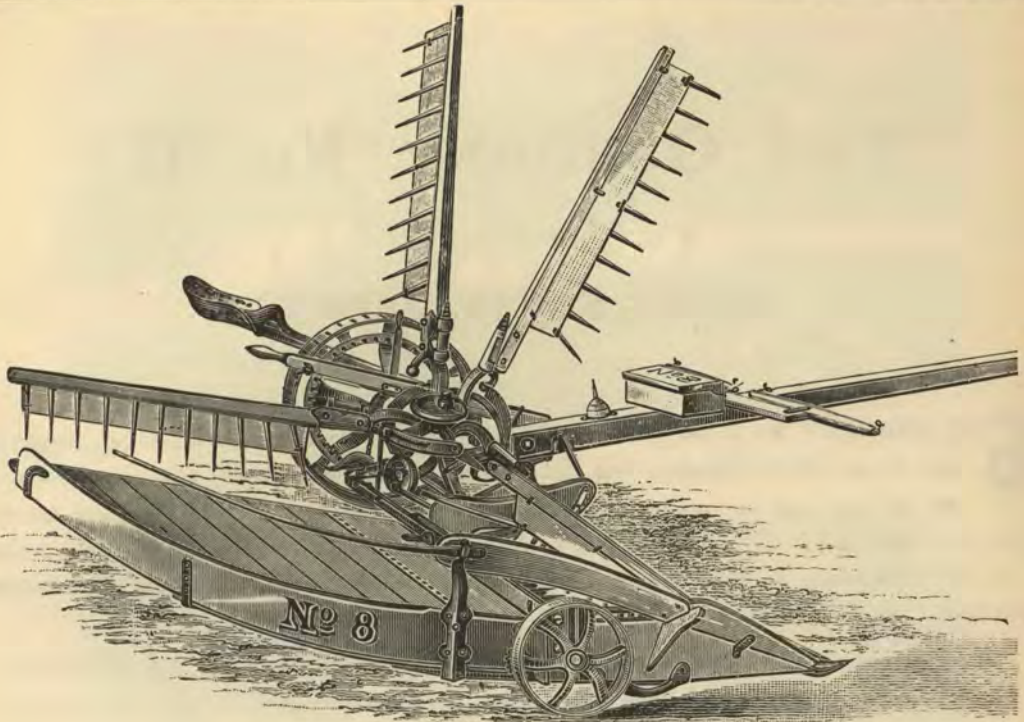


PLATE 14.

The Osborne No. 8 Light Reaper.

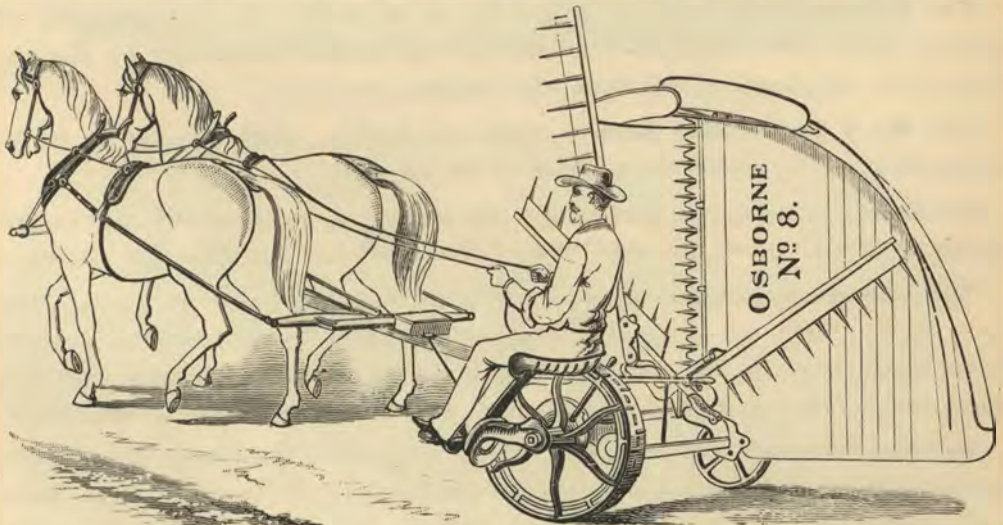


PLATE 15.

The Osborne No. 8.
Folded for Transportation on the Road.

THE OSBORNE No. 6,

— AS —

MOWER, REAPER, DROPPER.

 THE OSBORNE No. 6 has a rare combination of virtues; it can *Mow*; it can *Reap*; it can *Drop*! It is "*much in little*," and for the Farmer who desires a machine that will cut his hay, and can readily and without trouble be converted into a Reaper for his grain, the OSBORNE COMBINED, No. 6, is the implement that will supply his every need. It is *Three* Machines in *One*, and is recognized everywhere as the **Standard Combined Machine**. Endurance and good work are its prominent characteristics.

As a **Mower** it has given universal satisfaction; it has great strength, and its durability is beyond question. It cuts five feet wide, and its weight has been reduced to the minimum consistent with maintaining the greatest efficiency in handling the most difficult crops. The finger-bar can be raised easily for passing obstructions, or for folding to drive on the road. The draft is light, with no weight upon the horses' necks.

The **Reaping Attachment** can be attached to the mower with little delay, and when completed makes a fine reaper, as every purchaser will testify. As a reaper this machine is entirely under the control of the driver when cutting.

The **No. 6 Controllable Rake** is simple and durable. Each rake can be set so as to work automatically, without the attention of the operator.

For moving, or for storage after harvest, this machine can be folded with little trouble—a quality which is alone very desirable. When folded it will pass over space that a mower can.

The **Dropper Attachment** for this machine has not yet been equaled, and we doubt if it ever will be. There are no droppers made which have so few parts, and can be so easily attached to the mower as this. We have had, in the past, a large trade on the No. 6 as a dropper, and we have yet to hear of a purchaser who has not been fully pleased with it.

We know that our friends who are in want of a Combined Machine or Dropper cannot secure a machine with which they will be better satisfied than with the No. 6. This machine in all respects is well made; and we are perfectly willing that it shall be subjected to the severest possible tests in field work as to strength and durability, as well as performance of work.



PLATE 16. The Osborne No. 6 as a Mower.



PLATE 17. The Osborne No. 6 as a Reaper.



PLATE 18. The Osborne No. 6 as a Dropper.

The Osborne No. 5 Mower.

 ANY farmers prefer a rear-cut to a front-cut Mower, and to meet this demand we manufacture the No. 5 Mower, and a clear and well-defined illustration on the next page shows its simplicity and the entire absence of all unnecessary parts; not a pound of weight is used that is not absolutely essential to its construction. The gearing in the No. 5 corresponds exactly with that in our No. 4, except that the former cuts in the rear of the main wheel.

One of the strong points which we claim for this Mower is that the danger attending the ordinary make of rear-cut machines will not apply to the No. 5. The striking or holding on to an obstruction will not raise either wheel from the ground; hence there is not the slightest danger of throwing the driver, though he may be a boy, from the seat. This Mower has stood the severest tests in a thousand fields, and it is a vain repetition and an unnecessary employment of words to refer to its world-renowned merits. Its reputation is already secure!

Our Mowers are the leading machines of the world, and in the hay field they cut the closest, with the least effort, and with satisfaction and comfort to man and beast! Drawing our Mowers is light exercise and rest from the plow! They are made to *wear* and *work*, and with reference also to maintaining the reputation and reliability of **D. M. Osborne & Co.** as manufacturing the best line of Mowers in the market.

We have reduced the weight of these Mowers to a minimum, consistent with maintaining excellent working qualifications, no matter what the condition of the crop; and we claim that they are the most perfect mowers ever built, and superior to any which are now in the field.

We manufacture these Mowers in two sizes, to cut either four feet and six inches or five feet swath. The difference in price between the two cuts is a trifling matter to a farmer who wishes the wide-cut machine.

THE OSBORNE NO. 3 ONE-HORSE MOWER.

This machine is a child of our No. 4 Mower, cutting three feet nine inches, and is as perfect in its field work as the larger members of the family. It is operated by one horse (it comes with shafts instead of a pole), and is in demand for extensive lawns, parks, and small farms.

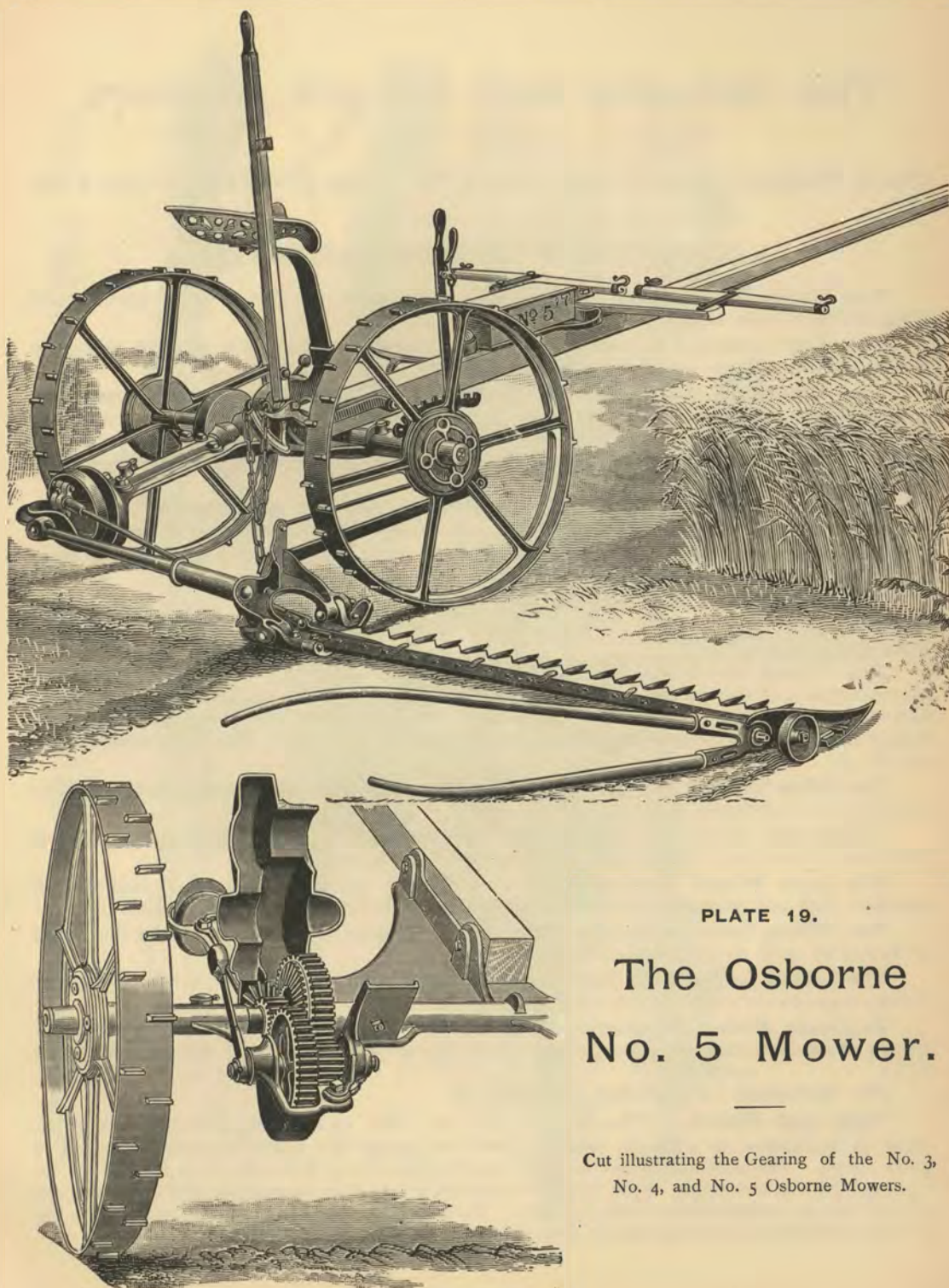


PLATE 19.

The Osborne No. 5 Mower.

Cut illustrating the Gearing of the No. 3,
No. 4, and No. 5 Osborne Mowers.

The Osborne No. 4 Light Mowers.

No. 4, Width of Cut, 4 Ft. 6 In. and 5 Ft. "Big 4," Width of Cut, 6 Ft.

A DESCRIPTION OF THESE POPULAR MOWERS.

The Finger-Bar is in front of drive wheels, giving driver full view of entire machine and of the horses at same time.

The Seat is attached to a steel spring, and is fastened to the axle at an angle, making it the easiest riding mower yet produced.

The Gearing is simple, powerful, durable, and is inclosed in cast-iron case, fully protected from rain and dust. The teeth are uniform in thickness, insuring an even wear the whole length of each cog. It is easy of access for oiling. The gears are accurately fitted to shafts made exactly true. There is no lost motion, but the knives start simultaneously with the forward motion of the wheels.

The Main Frame is cast in one piece, very compact and strong, and will not twist, warp, or bend so as to throw shafts out of line, as is the case when made poorly of wrought iron.

The Shifter Lever, for throwing in and out of gear, is in the middle of the machine, convenient for driver to operate either with hand or foot.

The Crank Shaft Box is of the kind often termed a "pipe-box," protects the crank shaft; is attached so that, when worn out, can be removed and replaced by a new one at trifling cost.

The Pitman runs in straight line, giving a direct, powerful stroke to the knife. Since the pitman conveys all motion and power from the gearing to the cutting apparatus and moves at a high rate of speed, it is of the utmost importance that it be light, yet strong, and should be worked in a *direct line* to insure steadiness and uniformity of motion. This is accomplished in the No. 4.

The Drive Wheels are high, to secure light draft, far apart, and supplied with sprockets, to make sure of powerful traction.

The Guards are made of malleable iron, with steel cutting plates, which can be ground from time to time, and cheaply replaced when worn by long use.

The Lead Wheel, ahead of push bar, with spiral spring attachment, is desirable in lessening draft and protecting the horses and machine from all jars on uneven ground.

The Tilting Lever enables the driver, without stopping the horses, to throw the *points of the guards* up or down instantaneously.

The Lifting Lever allows the driver to raise and lower the finger-bar at will. Thus the cutting apparatus is under the full control of the driver.

Duplicate Parts. We maintain a perfect system of duplication, keeping on hand at our branch offices and with our agents a large stock of duplicate parts for all the machines made by us.

For directions in ordering, see page 35.

THE BIG FOUR. — **The Giant.** The *Big Four* is made by us in response to the desire of the farmers for a heavier machine than our regular No. 4, and for a mower cutting a wider swath. The maximum width we have found practicable or desirable is *six feet*. Notwithstanding the size and weight of the **Big 4**, innumerable tests with the dynamometer have demonstrated that no corresponding draft is added. We commend this Mower to the public with the greatest confidence, knowing that its field work will elicit the highest praise.

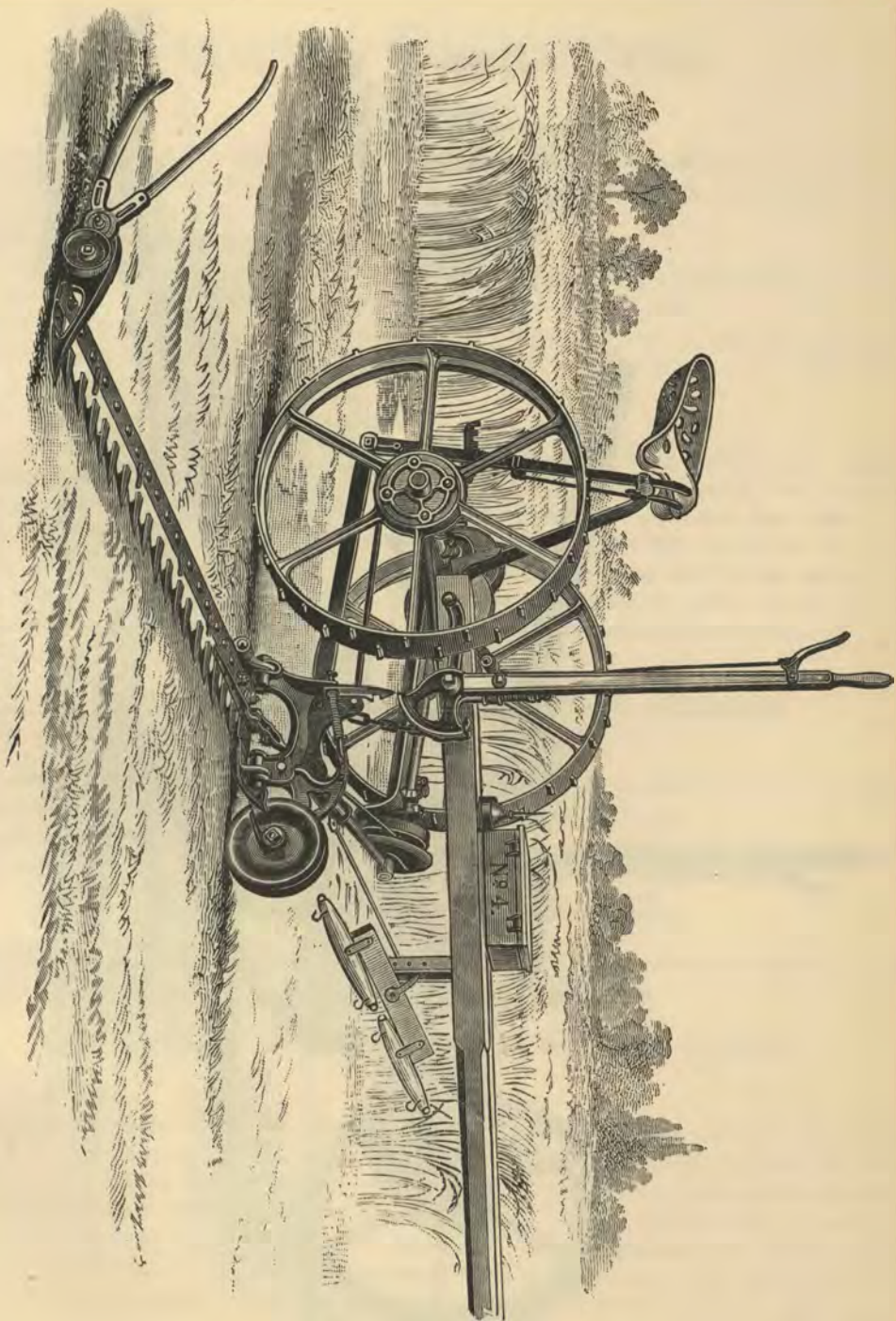


PLATE 20.

The Osborne No. 4 Light Mower. (Enclosed Gear.)

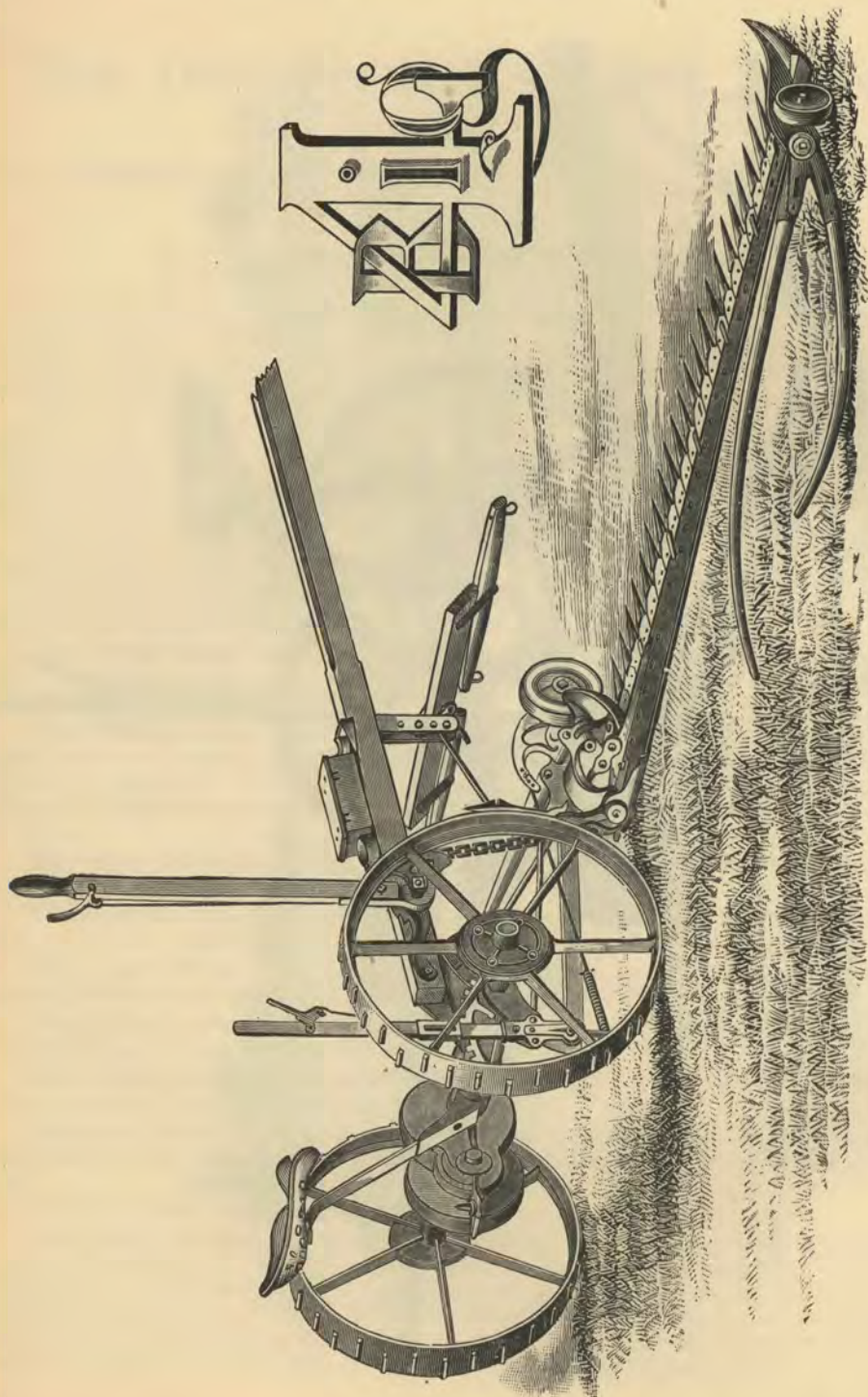


PLATE 21.

The Osborne "Big 4" Mower. (6 ft. Cut.)

General Directions.

When you send an order for machines or repairs, be particular to mention:—

FIRST.—TOWN, COUNTY, AND STATE TO WHICH THEY ARE TO BE SHIPPED, AND NEAREST RAILROAD STATION.

SECOND.—WHETHER BY FREIGHT OR EXPRESS.

THIRD.—IF REPAIRS ARE WANTED, GIVE **LETTER** AND **NUMBER** OF EXTRA PIECE, AND STATE YEAR IN WHICH MACHINE WAS MADE OR PURCHASED.

FOURTH.—BE SURE AND DESIGNATE THE MACHINE WANTED; IF MOWER, WHETHER REAR OR FRONT CUT; IF BINDER, NO. 11 OR JUNIOR; AND IF REAPER, WHETHER THE NO. 8 OR NO. 6 COMBINED MACHINE.

FIFTH.—YOUR POST-OFFICE ADDRESS.

To assist in ordering repairs, we place in connection with instructions for setting up the machine, a printed list of the pieces ("*Extras*") in the tool-box of each machine we send out. In ordering extras, examine the piece required, and if there be a *letter* and *number* on it, you need only state the same to our agent, who will recognize at once the piece you need. If no letter and number be on it, *send the piece itself* to our agent. If no local agent be in your vicinity, order the extra of our nearest *Branch Office*, whose address will be found on the first page of this catalogue; sending letter and number by mail, or piece by express.

DO NOT FORGET YOUR POST-OFFICE ADDRESS.

We often receive business letters from farmers on which there is nothing to show the Post-Office address of the writer. Such letters, of course, cannot be answered.

Please write your NAME, POST-OFFICE, COUNTY, and STATE *plainly*, and address all communications to

D. M. OSBORNE & CO.,

either at AUBURN, N. Y., or our nearest Branch Office.  All inquiries will receive *prompt* and *careful* attention.

PROOF FROM EVERY SECTION OF THE GLOBE.

We issue a Special Catalogue containing nearly 3,000 letters (selected from very many thousands in our possession) from farmers who have used our machines. These are testimonials which have been sent to us from every portion of the United States, and from many foreign countries, where our machines are in universal use. This is indexed and arranged by States and Counties in alphabetical order; thus any one desiring testimony on special points can readily find it over the signatures of well-known farmers in his own State, and often in his own county or even township. We will send this volume of over two hundred pages to any farmer upon application.

D. M. OSBORNE & CO.'S

CALENDAR, 1888

JANUARY							MAY							SEPTEMBER						
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FEBRUARY							JUNE							OCTOBER						
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MOWERS & REAPERS



SELF-BINDING

HARVESTERS