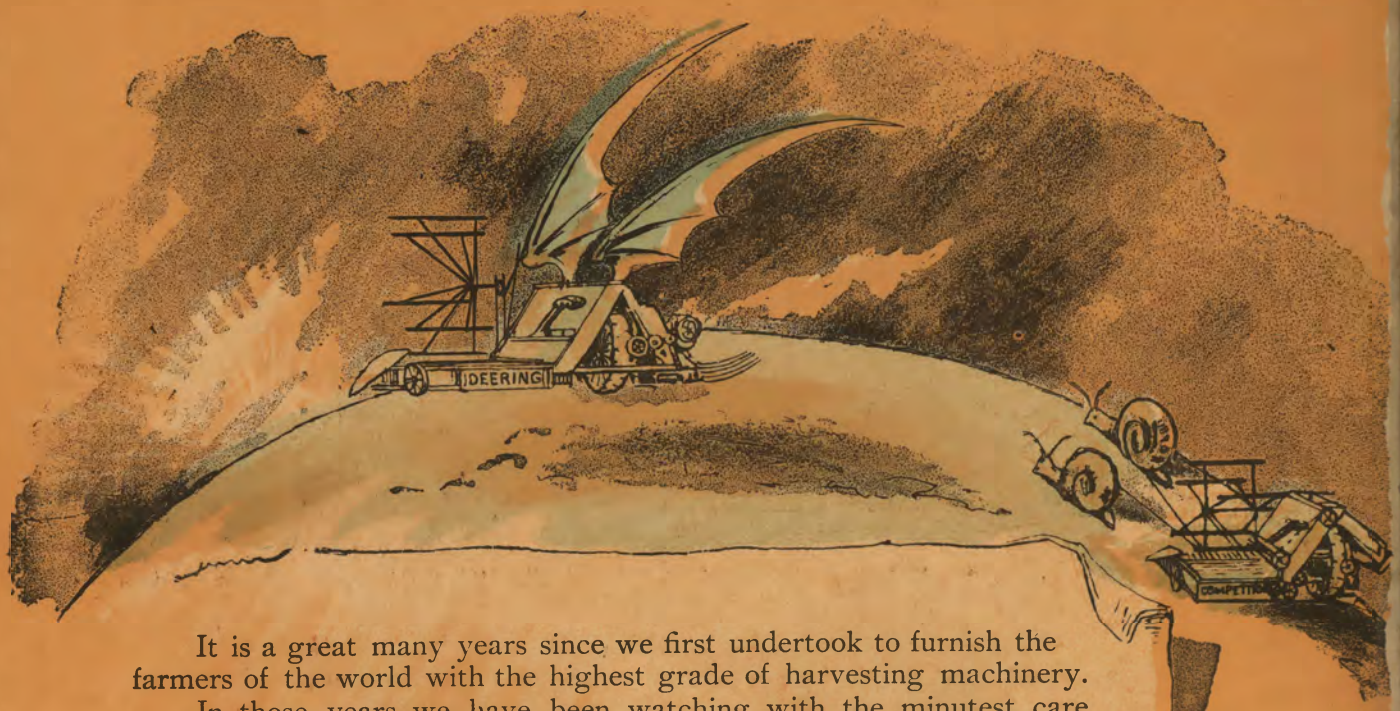
Wm. Deering & Co.

Harvesting Machinery

CHICAGO, U.S.A.



It is a great many years since we first undertook to furnish the farmers of the world with the highest grade of harvesting machinery.

In those years we have been watching with the minutest care every detail of their growing wants and have been able to furnish them with a machine for doing every possible work in the cutting of grain and grass, and to give them in each machine of the various kinds made the best workmanship in the making of the machine and the highest efficiency in its work in the field.

We do not intentionally exaggerate the exact fact in the statement just made, and proof that we do not is found, we believe, in the fact that no other manufacturers in the world make and sell every year so many harvesting machines as ourselves.

We have led and not followed, and it is a well-known fact that the improvement of one year in the Deering machinery is copied the next year by others as the sign of their own progress.

On the page opposite is found a list of the machines and attachments placed in the hands of our agents for the season of 1886, and in that list will be seen several machines made by none of our competitors which we predict will be imitated and adopted by others, so far as they may be able, in a few years.

The progress in our manufacturing methods has led us to introduce in our foundry a method of making castings by machinery—one of the wonders of modern invention. Hundreds of Edison electric lights enable us almost to turn night into day. We have added to our factory plant in several ways and in every way have sought to better our means for making the Deering Harvesting Machinery.

In this catalogue we have endeavored to present our machines not only in an artistic form worthy of their merit, but also in a manner to suggest some of the relations they have sustained to the large and progressive world.

It is not alone America, but South America, Mexico, New Zealand, Australia and Europe that furnish the field for the Deering machines.

To farmers everywhere we beg to offer our thanks for their kindness in the past and to express our hearty wish for their prosperity in the future.

WILLIAM DEERING & CO.

The line of Deering Machinery for 1886 is given below. We believe it to be the most complete in extent and the most perfect in individual machines that has ever been offered to the farming public.

THE DEERING ALL-STEEL TWINE BINDER, cutting 5 ft. and 6 ft. Page 3.

THE JUNIOR DEERING TWINE BINDER, cutting 5 ft. and 6 ft. Page 5.

THE STANDARD DEERING TWINE BINDER, cutting 5 ft., 6 ft., 7 ft. and 8 ft. Page 6.

THE DEERING IMPROVED BUNDLE CARRIER, furnished for any one of the above machines of any year's make. Page 7.

THE DEERING TRUCK, for transporting the Binder through lanes and over roadways or bridges, furnished for any one of the above machines of any year's make. Page 14.

THE DEERING CARRIER, for Flax, Timothy or Clover, for any one of the above machines. Page 13.

THE DEERING CANVAS COVERS, for protecting the Binder from rain or weather, furnished for any one of the above machines. Page 7.

THE DEERING LIGHT REAPER, cutting 5 ft. Page 9.

THE DEERING FRONT-CUT GIANT MOWER, cutting 5 ft., 6 ft. and 7 ft., either with knife-section 2¼ inches wide or 3 inches wide. Page 15.

THE DEERING REAR-CUT GIANT MOWER, cutting 6 ft. and 7 ft., with knife-section 3 in. wide. Page 16.

THE DEERING MOWER, cutting 4 ft. 3¼ in. and 4 ft. 7¾ in., either with knife-section 2¼ inches wide or 3 inches wide. Page 11.

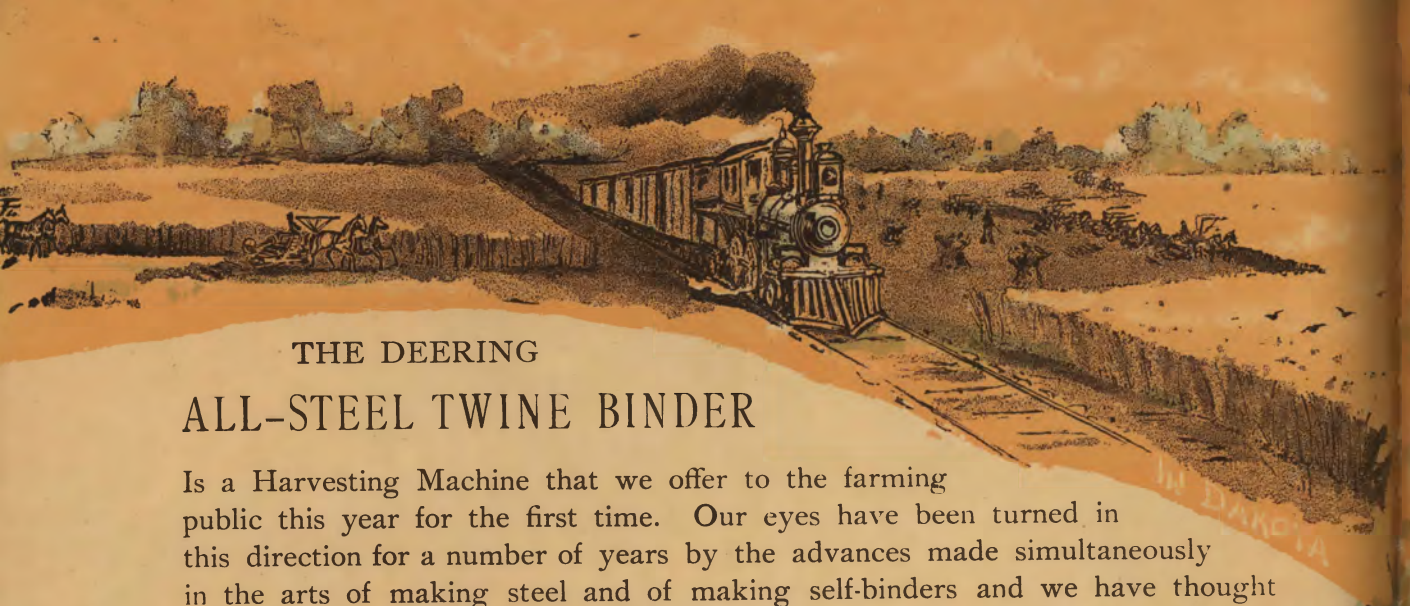
THE NEW DEERING MOWER, cutting 4 ft. 3¼ in. and 4 ft. 7¾ in., either with knife-section 2¼ inches wide or 3 inches wide. Page 12.

THE WARRIOR MOWER, cutting 4 ft. 3¼ in. and 4 ft. 7¾ in., with knife-section 2¼ inches wide. Page 11.

THE FAMOUS DEERING BINDER TWINE. Page 4.

Our agents, who are to be found everywhere, will be glad to show the above machines and will furnish special circulars describing each of these machines, which may also be had, post free, by application to us.

N. B.—A book on "Practical Wheat-Growing" sent post free to any farmer wishing it.



THE DEERING

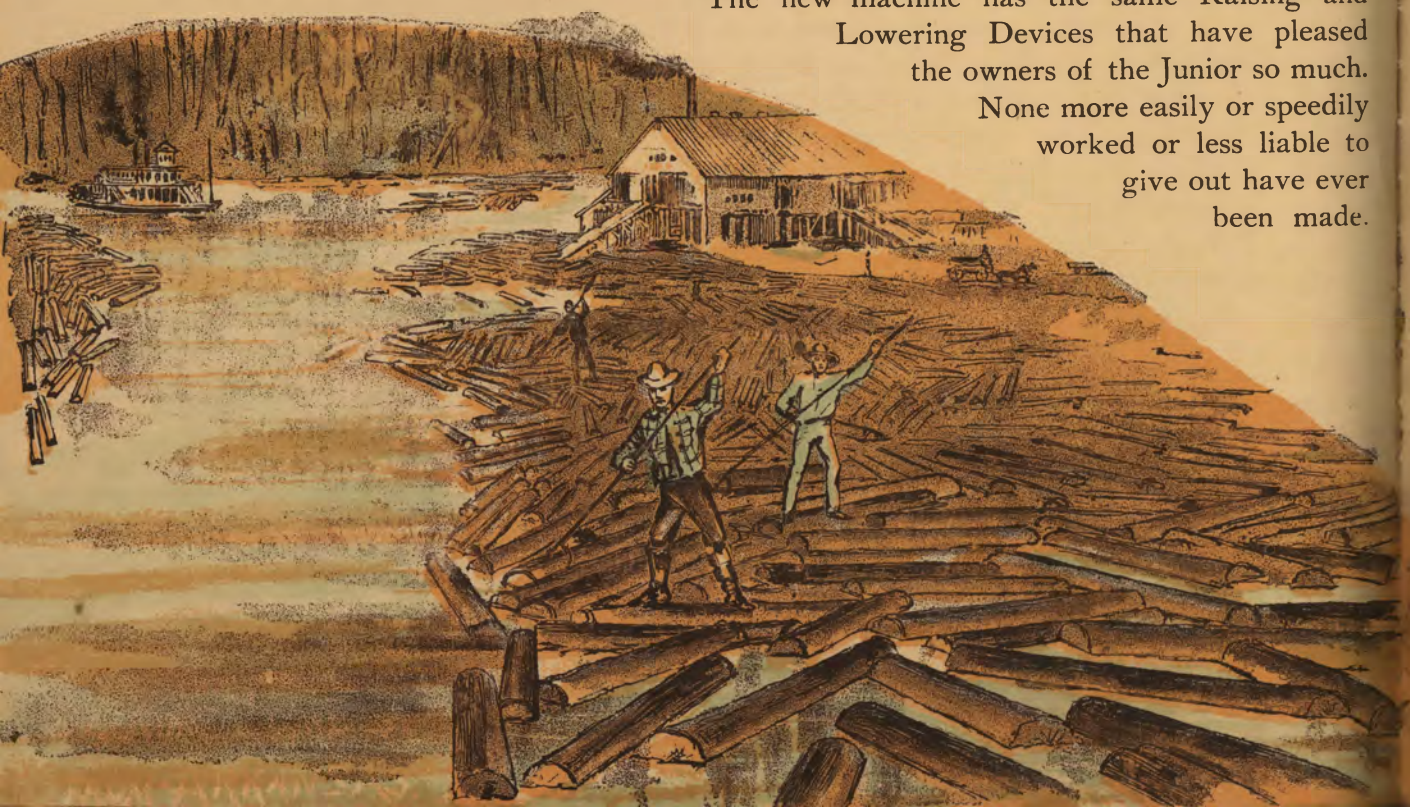
ALL-STEEL TWINE BINDER

Is a Harvesting Machine that we offer to the farming public this year for the first time. Our eyes have been turned in this direction for a number of years by the advances made simultaneously in the arts of making steel and of making self-binders and we have thought that, without by any means abandoning the wooden machines that have proved themselves so strong and reliable, we would undertake, for those who might wish them, to furnish machines made of the material that has taken so strong a hold on the present age. Immediately after the harvest of 1884, experimental work in this direction was begun in our factory, the result of which was placing in the harvest field of 1885 a number of machines made mostly of steel, and the result of this work is the offering of the Deering All-Steel Twine Binder for the harvest of 1886.

In its principles it is based upon the unrivaled Deering Junior, which has been proved by two years of actual hard service in the harvest field to be unexcelled by any self-binder that we have ever made.

The Junior Reel, with the 1886 improvements, has been placed upon the All-Steel Deering, because we find that experience and inventive skill can go no further in the making of a Harvester Reel.

The new machine has the same Raising and Lowering Devices that have pleased the owners of the Junior so much. None more easily or speedily worked or less liable to give out have ever been made.



The principle on which the Junior Device for Shifting the binder is made has been transferred to the All-Steel machine and its binding attachment is moved back and forth with the same easy movement and the same speed as that of the Junior. We believe as strongly as ever that efficient means of raising and lowering a machine directly up and down go hand in hand with a powerful and comprehensive tilt and accordingly both are to be found on the new machine. The perfect Deering Simplified Knotter is used on this machine.

This machine is as light in weight and as light running as our famous Junior Binder, universally admitted superior in those respects to any other machine on the market.

This machine is built on principles that have been proved right. It is very strongly made, has been carefully and fully tested and will meet the wants of those who desire a machine made throughout of steel. In the picture on this page is shown the All-Steel machine with the Improved Deering Bundle Carrier. It is furnished both with and without this device.

THE DEERING CANVAS BINDER COVER is illustrated on page seven. It is furnished when specially ordered and is intended to protect the machine from wind and weather. It is made of a good weight and quality of duck, fits the harvester and binder well and is furnished with ropes for fastening it in place. It can be furnished for any of our self-binders, the width of cut of which should be mentioned.

1850

THE JUNIOR DEERING TWINE BINDER

Needs no introduction to most of those who will read these pages. It has introduced itself most effectually in the past two years and is now everywhere fully known as a harvesting machine that embraces in their highest form these points of merit: **Extremely Light Weight, Extremely Light Draft, Great Strength and Durability, Complete Adaptability to Every Possible Condition of Crop and Ground and a Reliability in Good Working that No Adverse Circumstances can Overcome.**

The season of 1886 will be the third successful year of the Deering Junior, and having conquered all opposition, even to the point of being imitated by every manufacturer engaged in making harvesting machinery, it will, we are confident, work better and be more popular even than it has been in the past two years. The Junior Deering Twine Binder, with the slight improvements in the Reel and other minor points, is the same complete and satisfactory binder that it was in the harvest of 1885.

The Deering Simplified Knotter and the Deering Rear-Geared Binder are used on the Junior, as are also the Deering Adjuster Extension, features that are peculiar to the Deering Self-Binders, and form now, as they have done in the past, a large part of their great success. The Harvester part of the Junior Deering is as perfect a piece of work of its kind as we are able to do.

The Junior Reel, as is well known, has a capacity for moving higher, lower, further back and further forward than any other Reel ever made, a most vital advantage in handling grain properly for good work in the harvester and good work in the binder.

MAKING THE DEERING BINDER TWINE

The Combination Steel and Wood Main Wheel, so thoroughly proved on the Deering machines, is used on the Junior, and the Raising and Lowering Devices and the method of shifting the binder back and forth (having been strengthened), familiar to all who have seen the Junior, are the same as in 1885.

Unlike its imitators the Junior Deering has a full-sized Main Wheel and Binder Decks that slope rapidly to the knotter. It does not sacrifice its light draft nor its efficient binding to decrease its height an inch or two. The importance of these two points cannot be exaggerated. Every inch taken from the height of the Main Wheel decreases the traction power and increases the liability to mire down on wet ground and flattening the Binder Decks will inevitably increase the tendency of the binder to choke.

In short, the Junior Deering Twine Binder is as nearly a perfect-working self-binder as could well be made. It is furnished either with or without the Improved Deering Bundle Carrier shown here and described on page 7.

1886

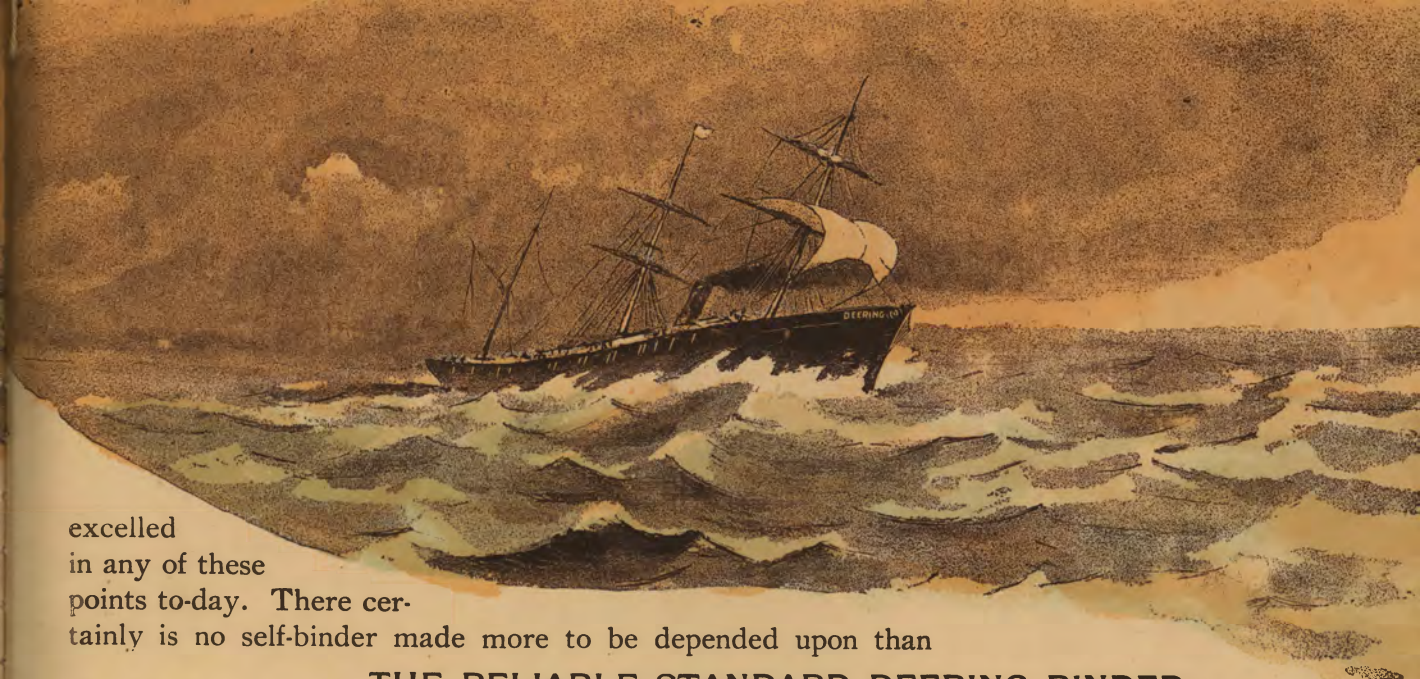
THE JUNIOR DEERING TWINE BINDER

The Standard Deering Twine Binder

Is probably, of all the harvesting machines ever made, the one most respected and the one holding the highest place in the affections of the farming public, and for the best of good reasons. It has for seven harvest seasons served its owners with more success, less annoyance and fewer breakages than any other binder ever made. Its success has extended and is known in all parts of the world where grain is gathered by machinery. We would ask no higher fame as manufacturers than to be known as the makers of the Standard Deering Twine Binder. This machine is so well known that there is little occasion for more than the announcement that for the benefit of its strong following of friends we are furnishing it, as usual, for the season of 1886.

It was on this machine that the famous Deering Simplified Knotter was first used, it being now placed on all the Deering Binders. In this knotter six pieces do the work of thirty in other knotters and, what is of even more importance, the knotter, when once adjusted, cannot be put out of order and cannot wear out. On it plunger-bolt, springs, set-screws and small weak pieces are thrown aside. The Deering Knotter is universally acknowledged to have no rival. The Deering Adjuster Extension, a perfect Shifting Device, and other important peculiarities of the Deering Binders, make the Binder Attachment of the Standard reliability and strength itself.

The Harvester of the Deering Standard needs no words of praise from us or anyone else. On it were shown first a completely Adjustable Reel, Adjustable Canvas Elevators, handy yet strong Raising Devices, and we do not know that it is

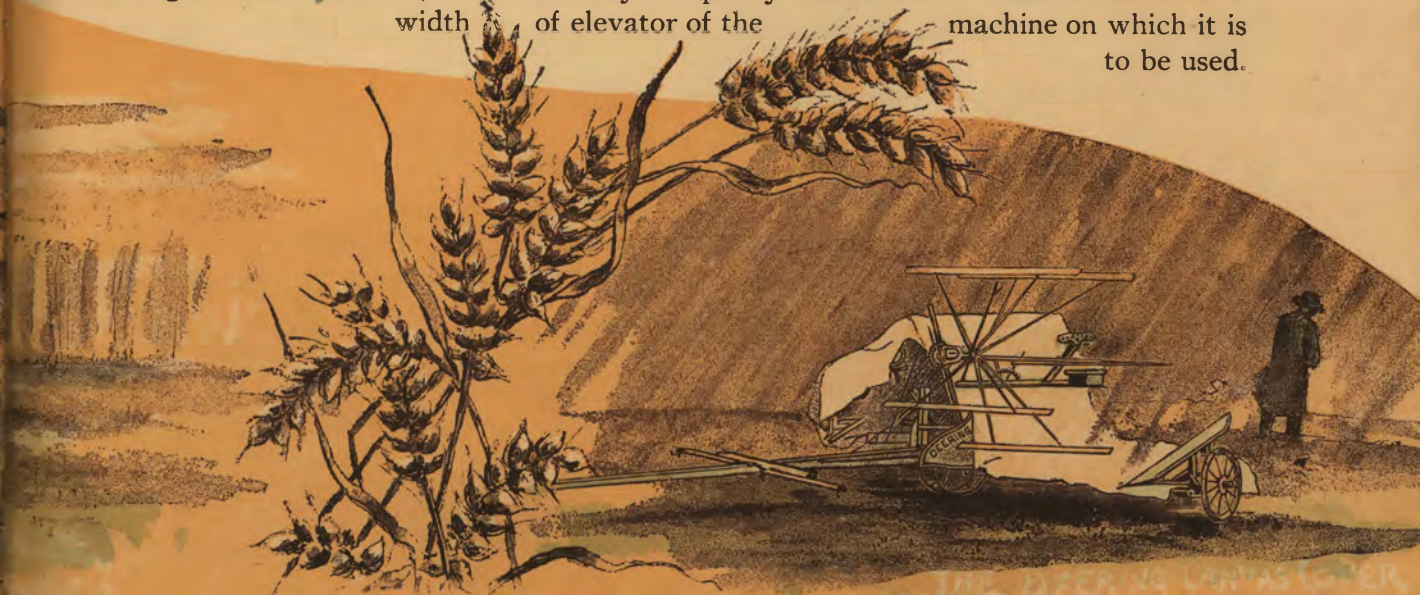


excelled in any of these points to-day. There certainly is no self-binder made more to be depended upon than

THE RELIABLE STANDARD DEERING BINDER.

The Deering Improved Bundle Carrier

Is shown on this page as attached to the Standard Deering Binder. It has been shown on previous pages as attached to the Deering All-Steel Binder and to the Deering Junior Binder. It is furnished as an attachment to any of these machines to anyone specially ordering it. This Bundle Carrier is based on the Deering Bundle Carrier of 1885, but is considerably improved. In all the pictures it is shown ready for receiving the bundles as they come from the binder. The principle of work of the Deering Bundle Carrier is that it will receive and retain four or five, or even, if desired, six bundles, carry them to a certain place and there, by a slight and easy movement of the foot of the driver, it drops them off and is brought back to place to repeat the operation. The result of this is that when the field is cut the bundles lie in perfect windrows, which, with very little labor, are collected into shocks. It is very easy to see the large economy of labor gained by the use of the Deering Bundle Carrier. Nor is this all: It saves the work of gathering the bundles into shocks after they are thrown out by the binder which is the hardest and most disagreeable of the harvest field now that self-binders do the work of binding the grain. It should be well understood that, in ordering a Bundle Carrier, it is necessary to specify which binder it is for and what is width of elevator of the machine on which it is to be used.



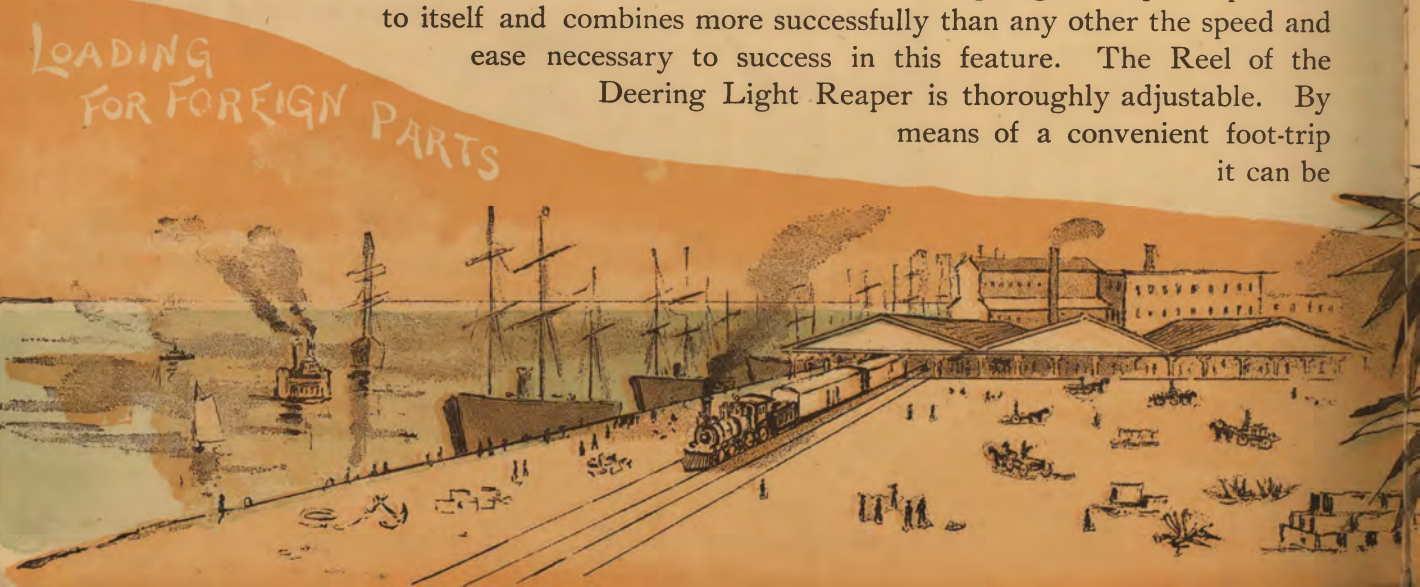
THE DEERING LIGHT REAPER

Is made to meet a want that has not died out in many parts of the world for a small and inexpensive grain-cutting machine that shall be easily worked with small horse-power, while it is strong and durable enough to make a practical and lasting machine.

To meet this want we offer the Deering Light Reaper and we confidently assert that no reaper makes a neater or more regular gavel than the Deering.

It has every point of adjustability and every convenience and improvement found on the best reapers of the present time and adds some fine features peculiar to itself.

It is a Center-Cut reaper—that is, the axles of its Main and Grain Wheels and the Cutter-Bar and Pitman are all in the same straight line. This gives strength and stability to resist shocks and wear and at the same time causes great ease in turning and backing the reaper and enables the driver to see every operation of the machine. A very important feature of the Deering Reaper, and one that we believe to be vital to the endurance and success of any reaper, is the fact that it has a Solid Iron Frame around the main wheel which prevents the boxes from getting out of line, keeps the gears in perfect mesh, prevents the wheel from leaning and gives a solidity absolutely necessary to the entire machine. The Raising Device of the Deering Light Reaper is peculiar to itself and combines more successfully than any other the speed and ease necessary to success in this feature. The Reel of the Deering Light Reaper is thoroughly adjustable. By means of a convenient foot-trip it can be



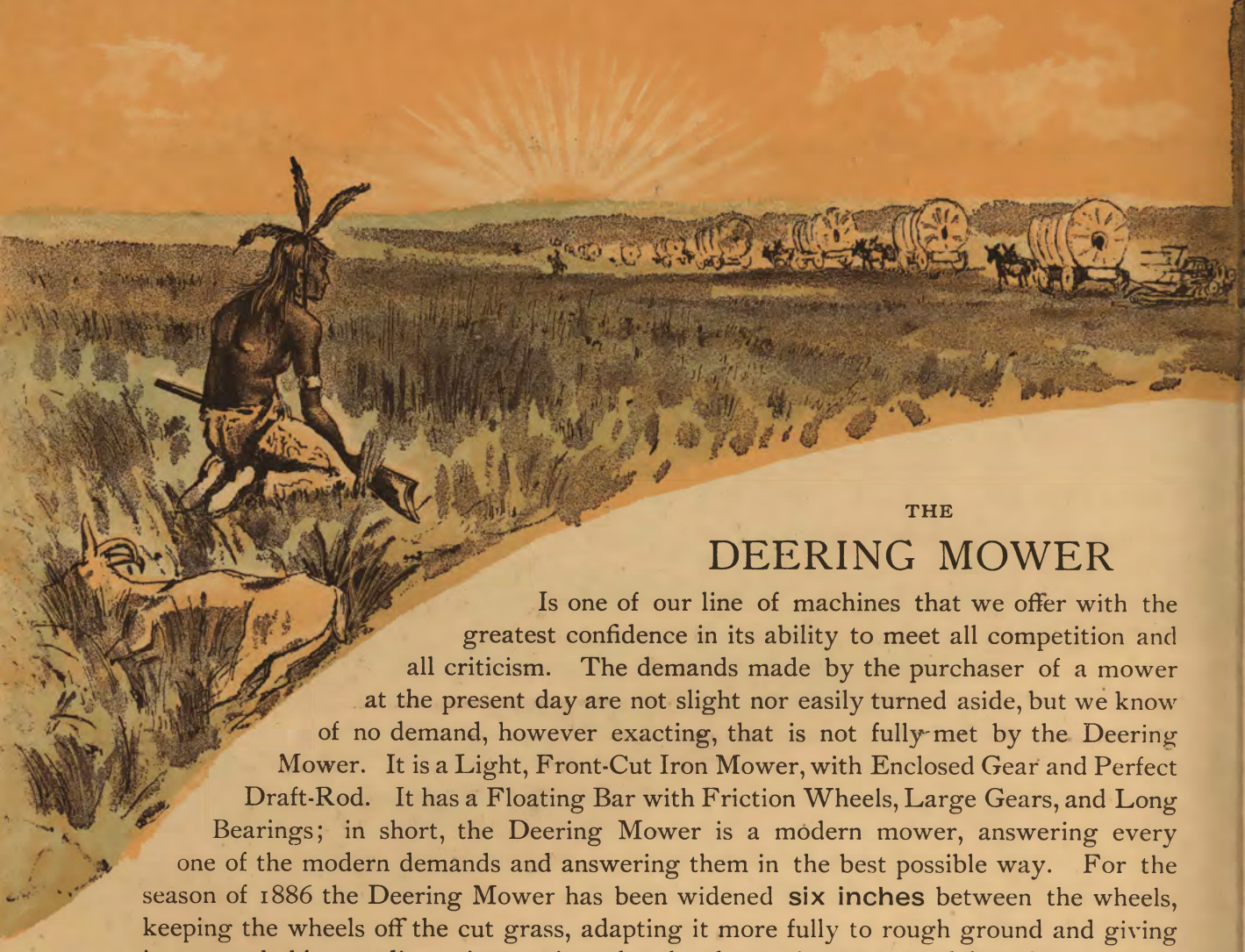
instantly and at any moment set so that, automatically, (1) every arm will rake, (2) every second arm will rake, (3) every fourth arm will rake, (4) no arm will rake until any one that suits him is thrown in to rake by the foot of the driver.

For the season of 1886 the Deering Reaper has been perfected in its clutch and rake-head and, from our determination to have it the best, we have added improvement and strength in every point where they can possibly be needed. We have added even more steel and malleable iron than the reaper before had and in the pitman connections and everywhere else possible have made what was before good even better.

The Deering Light Reaper is made of steel, wrought iron and malleable iron wherever these materials can be used. By this means strength is retained while lightness is gained. Every reaper is built, set up, run by steam and in every way tested with the utmost possible care. It is intended that every part of the machine shall be well made and amply strong to do its work and last well.

That the Deering Light Reaper is light a glance at the picture of it on this page will show.

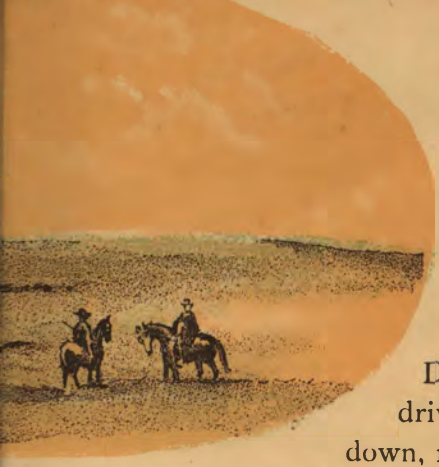
It cuts a swath of five feet and is so light and easily handled in every way that one driver with one pair of horses can easily do a good day's work with it. We ask that a careful examination be given the Deering Light Reaper before any other is purchased. We are confident that comparisons will result only in its favor.



THE

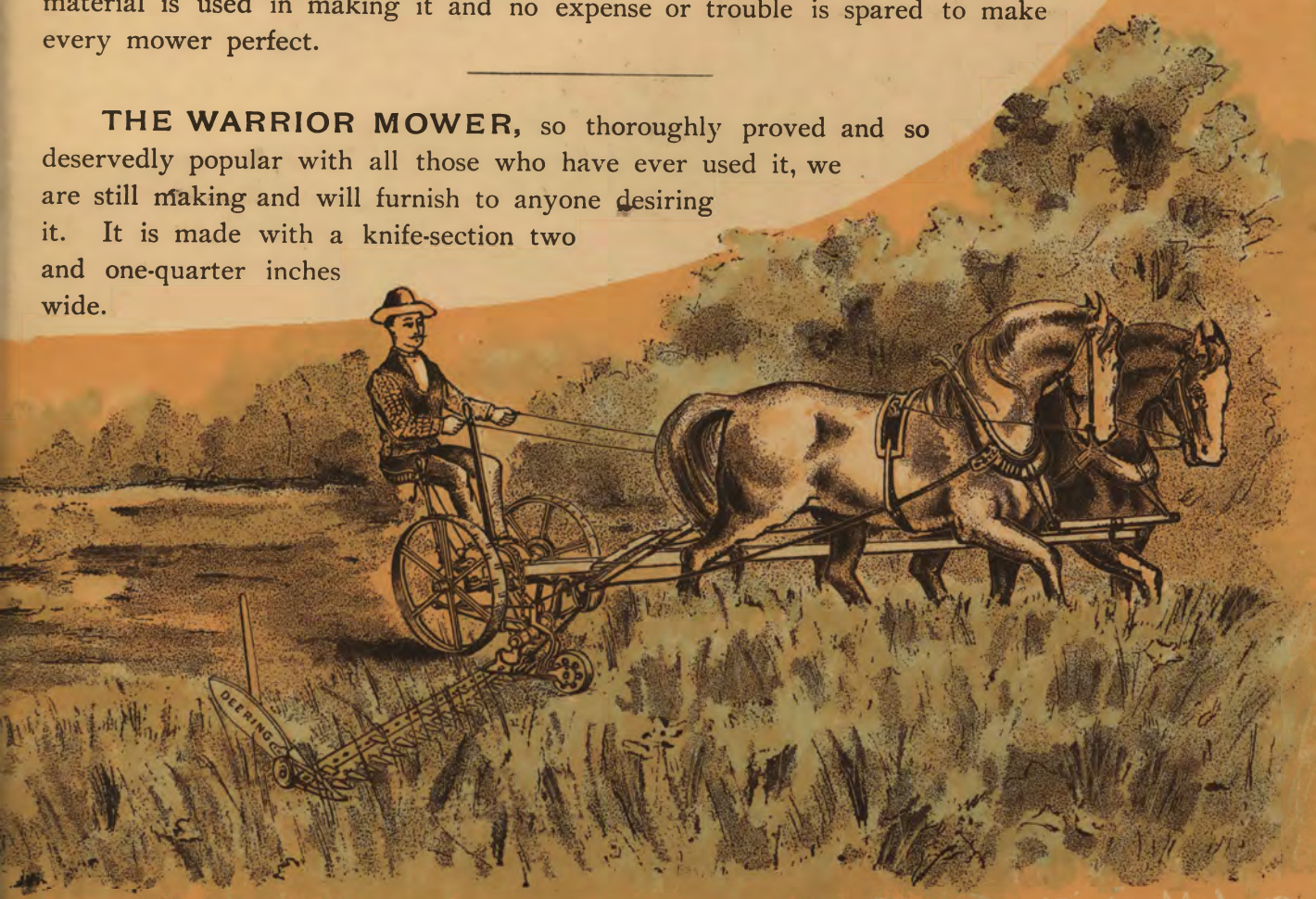
DEERING MOWER

Is one of our line of machines that we offer with the greatest confidence in its ability to meet all competition and all criticism. The demands made by the purchaser of a mower at the present day are not slight nor easily turned aside, but we know of no demand, however exacting, that is not fully met by the Deering Mower. It is a Light, Front-Cut Iron Mower, with Enclosed Gear and Perfect Draft-Rod. It has a Floating Bar with Friction Wheels, Large Gears, and Long Bearings; in short, the Deering Mower is a modern mower, answering every one of the modern demands and answering them in the best possible way. For the season of 1886 the Deering Mower has been widened **six inches** between the wheels, keeping the wheels off the cut grass, adapting it more fully to rough ground and giving it a remarkable steadiness in running, thereby decreasing wear and largely increasing the comfort of the driver. Changes have been made also by which the off horse is given more room in which to walk when the mower is at work in the grass. Actual work in the field is what tests the real powers of a mower and its work there must be the basis of any success that it may have. Three facts have largely made the great field success of the Deering Mower: *First.* Its extraordinary Light Draft, less, by repeated dynamometer tests, than any other mower that has been sold in the market. *Second.* The fact that it will not clog or choke in the heaviest cutting. *Third.* The fact that it can be stopped and started again in the worst condition or kind of grass without backing up or clearing the knife. The Deering Mower weighs but 575 pounds and has unusually long Bearings, which facts, together with its large Gears and perfect Draft-Rod, are responsible for its very light draft. The four Ratchets in the wheels and the four-toothed clutch on the intermediate gear of the Deering have much



to do with the ease of stopping and starting. To the Floating Cutter-Bar of the Deering Mower is due a large part of its great success. It makes no difference what the condition of the ground may be, whether it be hilly or stony, filled with knolls or dead furrows, the bar of the Deering Mower, without the slightest thought from the driver, adapts itself to every variation, turning up or turning down, rising or falling either at the outer or the inner end better than it could be done by the care of the driver; yet the Cutter-Bar can be firmly locked and made rigid, as may be occasionally desirable in some kinds of cutting. The Deering Mower is provided with a Tilting Lever and a Lifting Lever. With the former (which no mower can do without) the bar may be tilted by the driver when the condition of grass or ground makes it desirable. With the Lifting Lever the bar may be raised easily and quickly to pass over an obstruction. This mower is furnished with a Cutter-Bar for a knife-section of either two and one-quarter or three inches, as may be ordered. The Deering Mower has been making rapid strides in popular favor. More and more of them are sold every year and their popularity becomes greater and greater; no mower can work better or give greater satisfaction. They are carefully built and each mower is set up, examined and tested and run for some time before it is shipped. The very best material is used in making it and no expense or trouble is spared to make every mower perfect.

THE WARRIOR MOWER, so thoroughly proved and so deservedly popular with all those who have ever used it, we are still making and will furnish to anyone desiring it. It is made with a knife-section two and one-quarter inches wide.



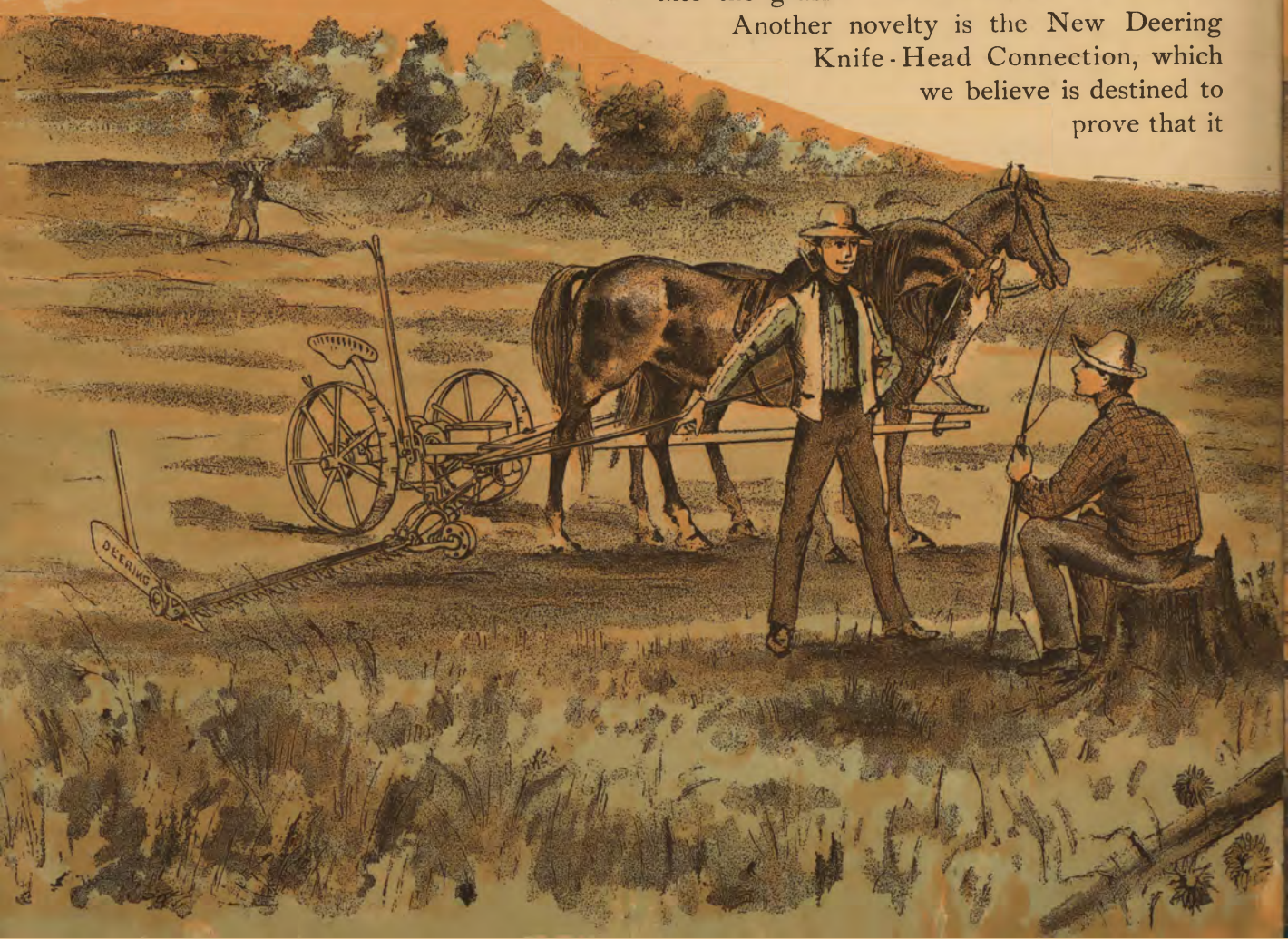
THE NEW DEERING MOWER

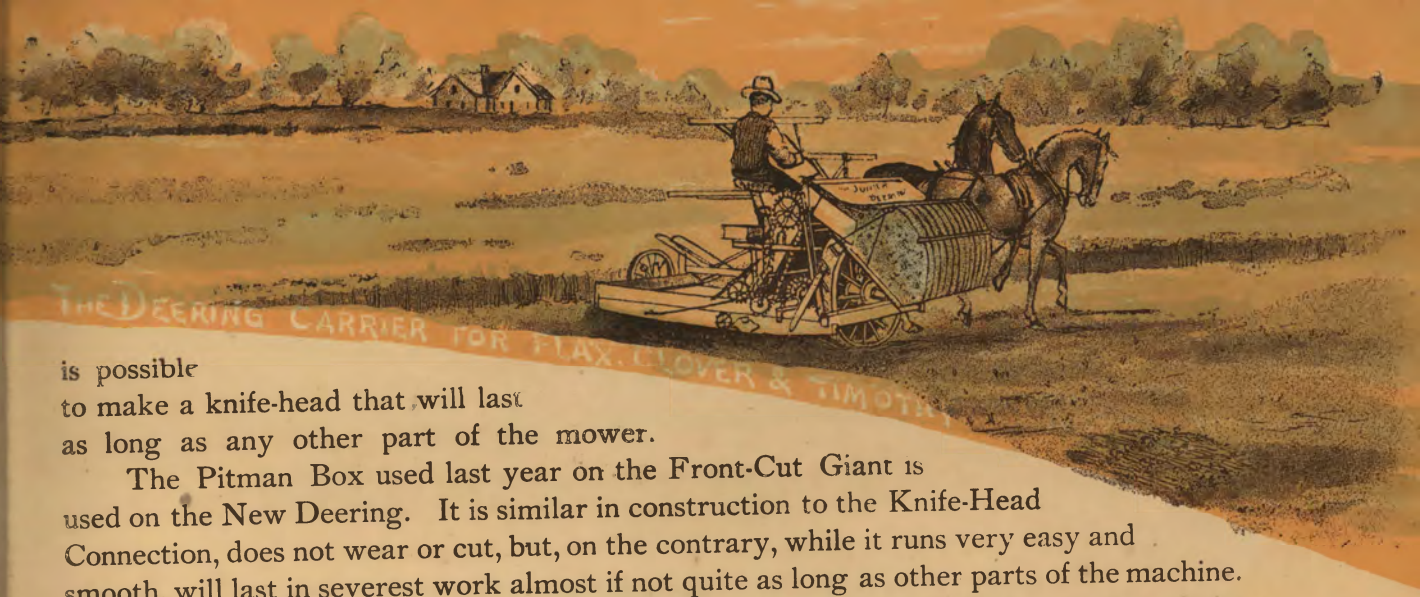
Is one of the outgrowths of our desire to furnish a machine to meet not only every variety of work in grass and grain cutting, but even to meet every variety of taste and opinion among the farming public, for we recognize the fact that years of practical farm work and experience entitle our customers to say what they wish to find in a mower and to receive it.

The essential characteristics of the New Deering Mower are Unusual Lightness of Weight, Great Width between the Wheels, Unusual Height of Wheels and Extraordinary Lightness of Draft. The weight of the New Deering is but 500 pounds, its tread (or width) forty-six and one-half inches and height of wheels thirty-two and one-half inches and it has repeatedly shown a draft of but 150 pounds when cutting in good heavy grass. The New Deering Mower combines lightness of draft with greater lightness of weight than has been ever before attained. Long and careful experiments were made before we were satisfied that this end had been reached, but for the season of 1886 we offer the New Deering Mower, confident that in it we are supplying a mower that will perfectly combine these two desirable features.

Another feature of the New Deering is the very great width between the pole and inside shoe, which allows a full swath to be cut without crowding the off horse into the grass.

Another novelty is the New Deering Knife-Head Connection, which we believe is destined to prove that it





is possible to make a knife-head that will last as long as any other part of the mower.

The Pitman Box used last year on the Front-Cut Giant is used on the New Deering. It is similar in construction to the Knife-Head Connection, does not wear or cut, but, on the contrary, while it runs very easy and smooth, will last in severest work almost if not quite as long as other parts of the machine.

The Draft-Rod of the New Deering is made on the same principle as that of the Deering Mower. It takes the labor of drawing the Cutter-Bar through the grass and over the ground completely off the wheels and is so arranged that the common fault of draft-rods—raising the bar out of the grass—is perfectly obviated.

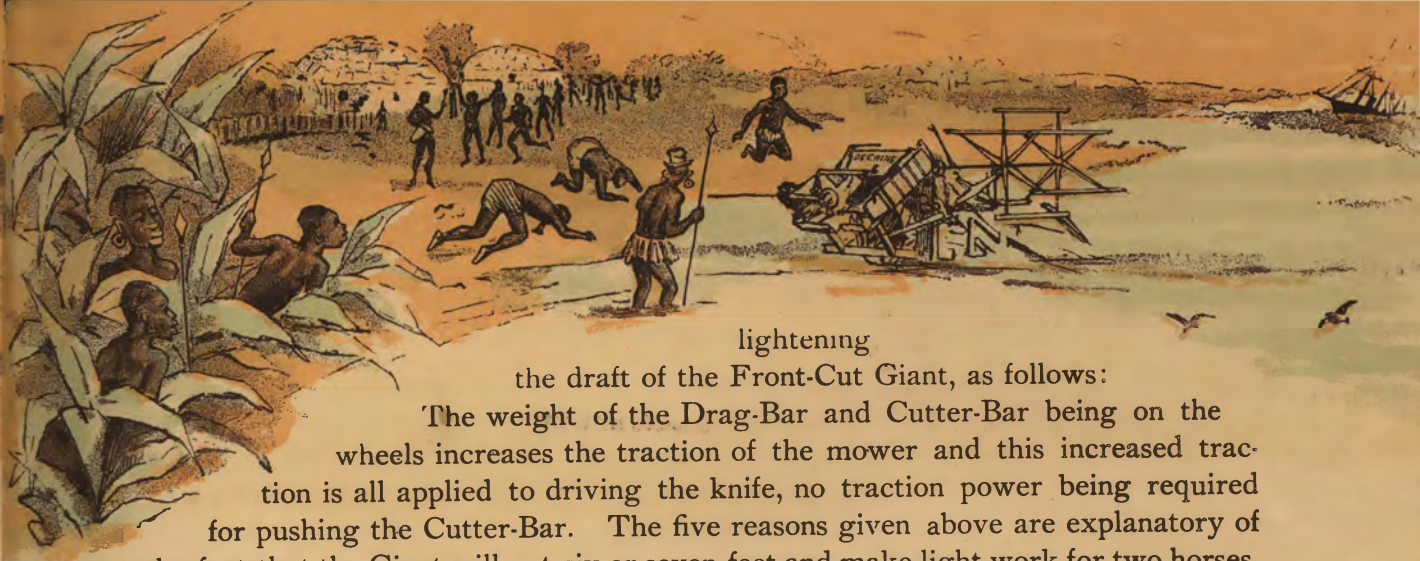
The Tilting Lever, the Lifting Lever, the Friction Wheels, the Floating Cutter-Bar with the Device for Locking it and the Large Gears found on the other Deering Mowers, are placed on the New Deering, which we feel perfectly safe to recommend as a mower that draws easy and cuts the worst kinds and conditions of grass or clover without a fault. It is made with a cutter-bar having knife-sections either two and one-quarter or three inches wide, as may be ordered.

THE DEERING CARRIER for Flax, Clover and Timothy, shown here, is made to fit any of the Deering Harvesters. It drops the bunches of cut Flax, Clover or Timothy in convenient piles for loading upon the wagon. By an easy push of the foot the driver dumps the load upon the ground wherever he wishes it to fall. This Carrier is made for the Standard, Junior, and All-Steel Binders, but it must be stated for which machine and what width of Elevator it is wanted. A Flax-Knife will be furnished for any one of the Deering Binders when specially ordered.

THE FRONT-CUT DEERING GIANT MOWER.

This machine was made and sold in large numbers for the season of 1885 and we are proud and happy to say that we have never, in our long experience, introduced any machine that has met with more immediate and complete success than the Front-Cut Giant. Its character and its peculiarity are shown at once when it is stated that it cuts a swath of **Five, Six** or **Seven Feet** and draws not appreciably harder than the ordinary mower. The great success of the Deering Rear-Cut Giant in 1884 caused the introduction of the Front-Cut, which was based on much the same principles.

The explanation of the surprising combination of wide-cut and light-draft lies in the following peculiarities of the Front-Cut Giant: *First.* It has remarkably high wheels, thus increasing traction and steadiness of running. *Second.* Its gears are of very large size and are carefully made and adjusted. *Third.* The bearings of the shafts are unusually long, decreasing friction and tendency to spring. *Fourth.* Perhaps the chief reason lies in the fact that when the mower is at work the Cutter-Bar barely touches the ground. The Drag-Bar is suspended by a strong spring, which can readily be made to support any part or all of the weight of the Drag-Bar and Cutter-Bar, so that though the Cutter-Bar cuts close to the ground it does not rest upon the ground, thus saving the friction, which is estimated to be forty per cent. of the draft of an ordinary mower. *Fifth.* The result of this arrangement has another effect in



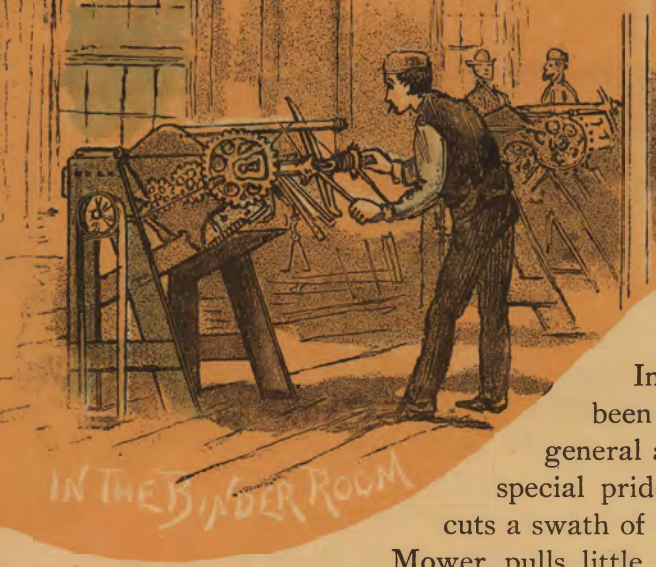
lightening the draft of the Front-Cut Giant, as follows:

The weight of the Drag-Bar and Cutter-Bar being on the wheels increases the traction of the mower and this increased traction is all applied to driving the knife, no traction power being required for pushing the Cutter-Bar. The five reasons given above are explanatory of the fact that the Giant will cut six or seven feet and make light work for two horses. The Deering Front-Cut Giant has had a wonderful success—surprising even to ourselves.

At little more than the cost of one mower it will nearly do the work of two. In a short time one man and one pair of horses will cut enough hay to occupy the hands for the entire day. The grass cut by the Giant will cure better because not so much cut grass is trampled by the horses or heaped up by the swath-board and can be more easily handled than that cut by the ordinary mower. It is furnished with knife-sections either two and one-quarter or three inches wide.

THE DEERING BINDER TRUCKS

Are used for transporting the Binder from field to field, or from the shed to the field, over narrow roadways or bridges. They are only furnished on a special order. The axle of the truck is so placed that the machine balances perfectly, throwing no undue weight on the horses' necks. The Deering Binder Trucks are made for the Standard, Junior and the All-Steel Binder, but it must be stated for which machine and what width of elevator the truck is wanted.

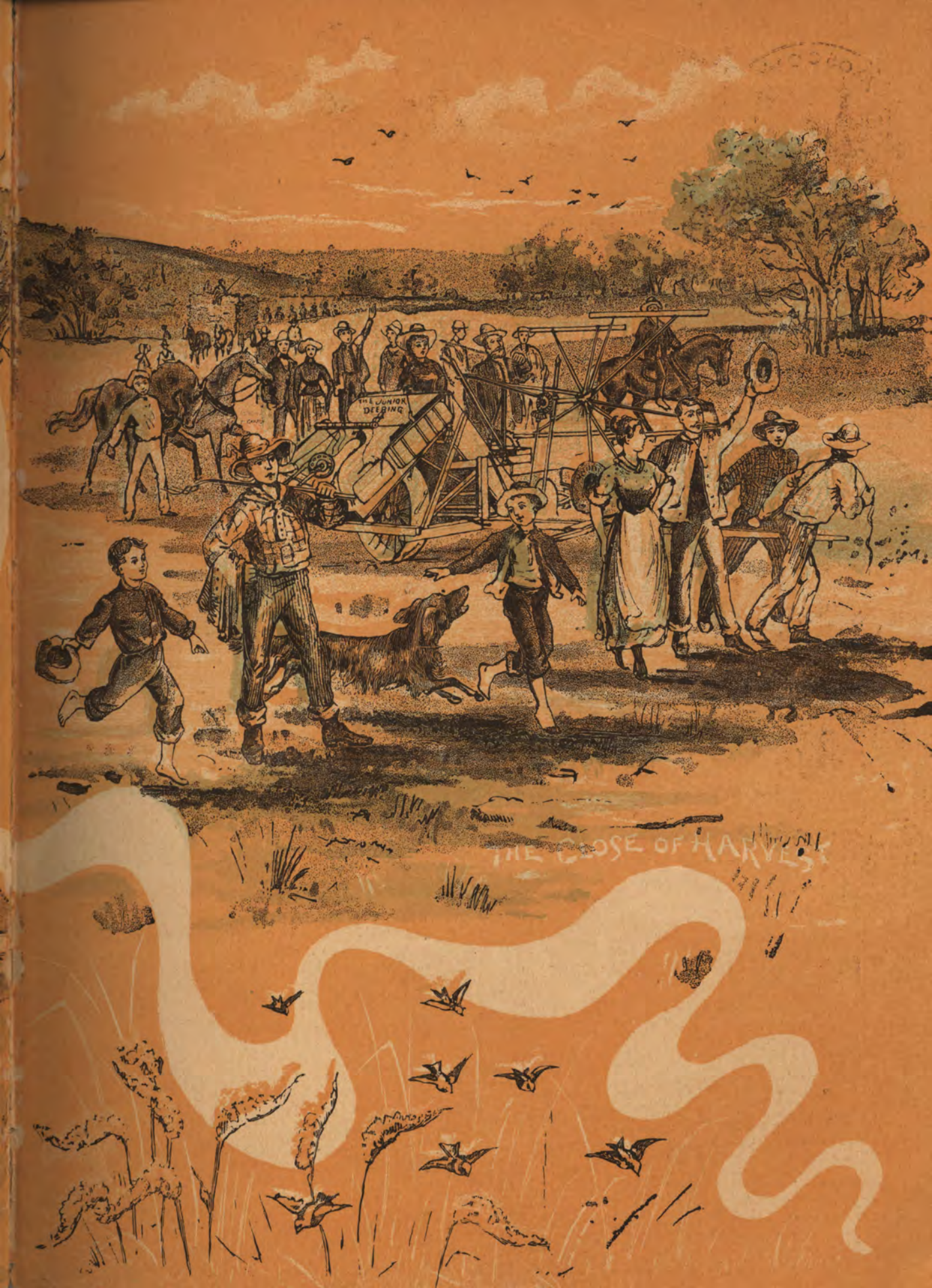


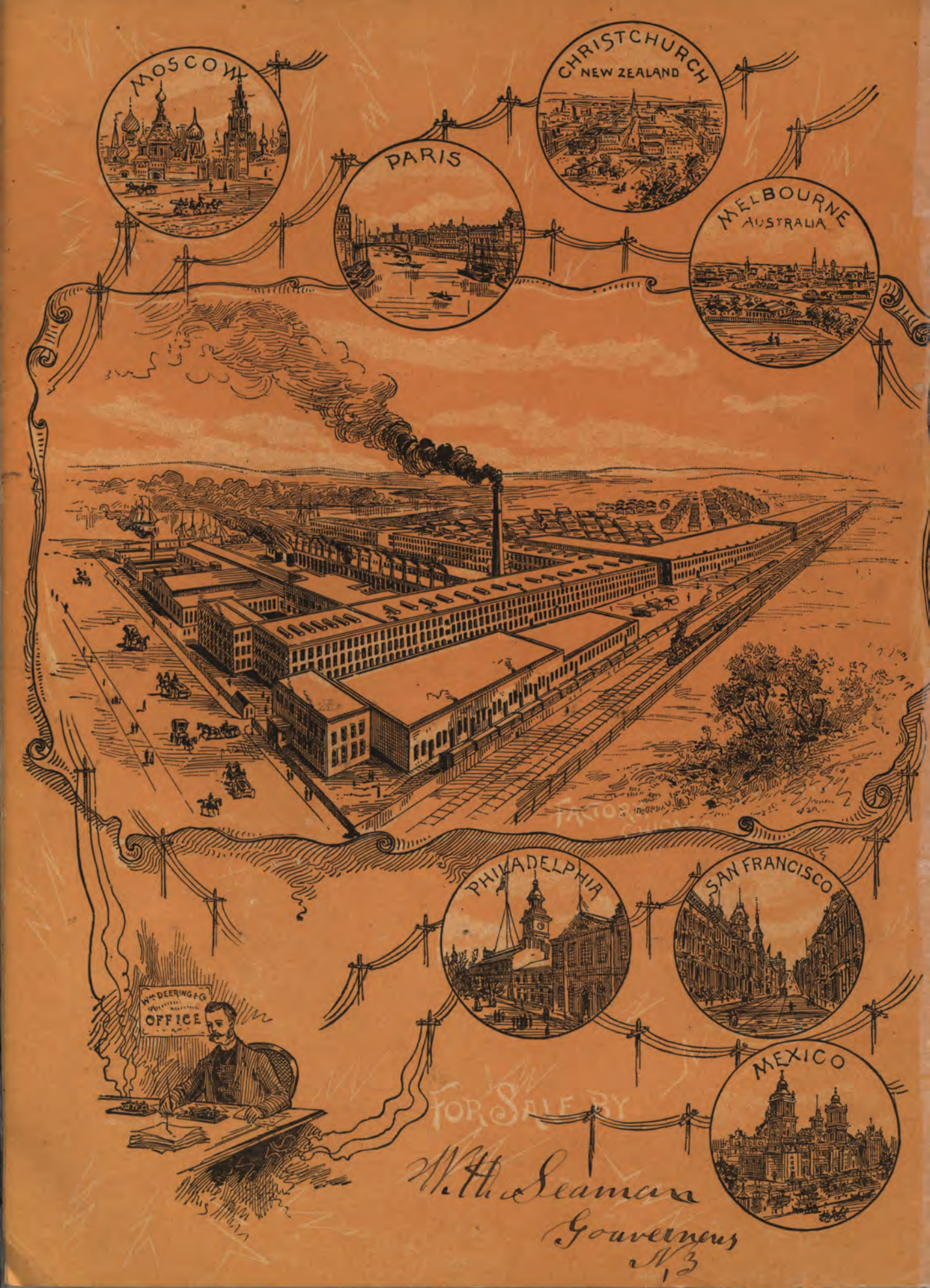
THE DEERING

GIANT REAR-CUT MOWER,

Introduced first for the season of 1884, has been so successful in every particular and is so general a favorite among grass growers that we feel a special pride in offering it for sale for the season of 1886. It cuts a swath of six and seven feet and, like the Front-Cut Giant Mower, pulls little heavier than a common mower. It can be drawn readily by two horses; it weighs less than 100 pounds more than an ordinary mower; it is absolutely free from side-draft and it throws no weight upon the horses' necks. The reason for the wonderful light draft of the Rear-Cut Giant Mower is substantially the same as given for the Front-Cut Giant Mower, namely: the drive wheels are very high; the gears are uncommonly large; the gears are made with great care and accuracy; the shafts are made small where they enter the bearings. The best reason of all, however, for the light draft of the Rear-Cut Giant is the fact that the Cutter-Bar barely touches the ground while cutting. The Cutter-Bar is supported by a leaf-spring, so that it does not rest upon the ground with its whole weight to be dragged by the horses. The weight of the Cutter-Bar and Drag-Bar being thrown on the Drive Wheels increases the traction so much more than that of a common mower, and this increased traction is employed in driving the knife in cutting a larger swath. The Rear-Cut Giant leaves the grass in better shape for drying than does a common mower, because the team does not tramp over so much of the grass, nor is so great a proportion of the cut grass heaped up by the swath-board. There is probably no mower made that has more extraordinary cutting qualities than the Rear-Cut Giant. We offer this perfect mower with the utmost confidence that it will make good every claim we advance for it.

THE DEERING GIANT REAR CUT MOWER


THE JUNIOR DEERING
THE CLOSE OF HARVEST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