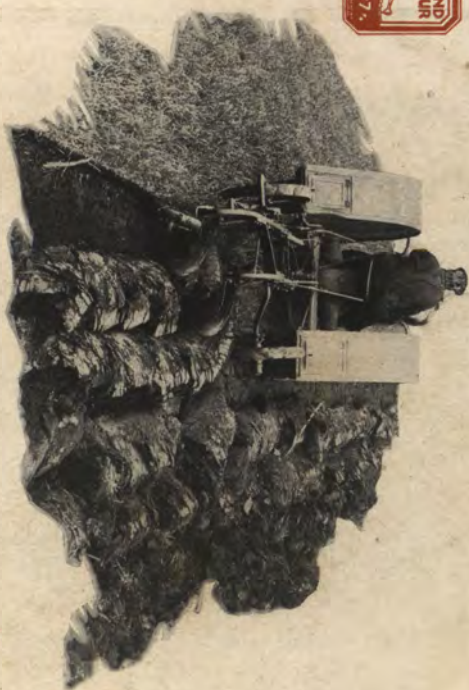




For Best Work in the Field
There is None Better Than
Grand Detour Tillage Tools.

GRAND DETOUR Tillage Tools *for* Light Tractors



J.I. CASE THRESHING MACHINE CO.
INCORPORATED
Racine, Wisconsin U.S.A.



In The Beginning



Grand Detour No. 2 Tractor Plow

IN 1837, in the little village of Grand Detour, Ill., the first plow of the Grand Detour line was made by nailing the blade of a steel saw to a wooden moldboard. In this way a smooth hard surface was secured that would scour in the sticky black soil of the middle West, and would wear well in stony land.

From that small beginning in 1837 has been developed the present line of Grand Detour Plows which are recognized everywhere as leaders, not only because of their superior construction, but, more important, because of the high quality of their performance in the field. With the advent of the tractor, a line of Grand Detour tractor plows was developed by practical, skilled men who had wide experience in plow building.

The Grand Detour No. 2 Tractor Plow for use with light tractors is the development of practical, skilled plow makers—men with wide experience in

building tractor plows for all conditions, good or bad. In building this plow, every attention was given to overcoming common faults of the present type of small tractor plows.

You should own a Grand Detour No. 2 plow because it has the following—

Distinctive Features:

1. *Oscillating Flexible Hitch*—Assures Even Depth of Plowing.
2. *Light Draft*—Rear Wheel Keeps Pressure From Landside, Strong 26" Wheels.
3. *Heat Treated Beams*—Guaranteed Not to Bend or Break.
4. *Positive Power Lift*—Quick Acting, High and Level, Ample Clearance.
5. *Convenient Levers*—Easily Accessible to Tractor Operator.
6. *Extra Equipment*—Spring Trip Hitch, Jointers, Any Type or Size of Bottom.

"FOR LIGHT TRACTORS"



Always Rides Level

Oscillating Flexible Hitch

The ordinary two-wheel plow with a rigid hitch to the tractor bobs up and down, sharply reacting to every movement of the tractor as it travels over uneven ground. This "bobbing" action of the plow causes uneven depth of plowing. This difficulty is overcome on the No. 2 plow by means of the oscillating flexible hitch which is free to move up and down without affecting the true running of the plow or sacrificing the ability to back up the plow. This hitch assures even depth of plowing over rough ground. An even greater advantage of the oscillating, flexible hitch is found in the action of hitch when either the rear tractor wheel or the plow land wheel passes over an obstruction. In neither case is the even depth of plowing materially affected. See illustrations pages 6 and 7.

Provision is also made for hitching at several heights on the plow to suit different heights of tractor draw-bar and to meet the varied conditions of plowing. The No. 2 plow hitches centrally between the beams and when being pulled requires that one wheel of the tractor be run in the furrow.

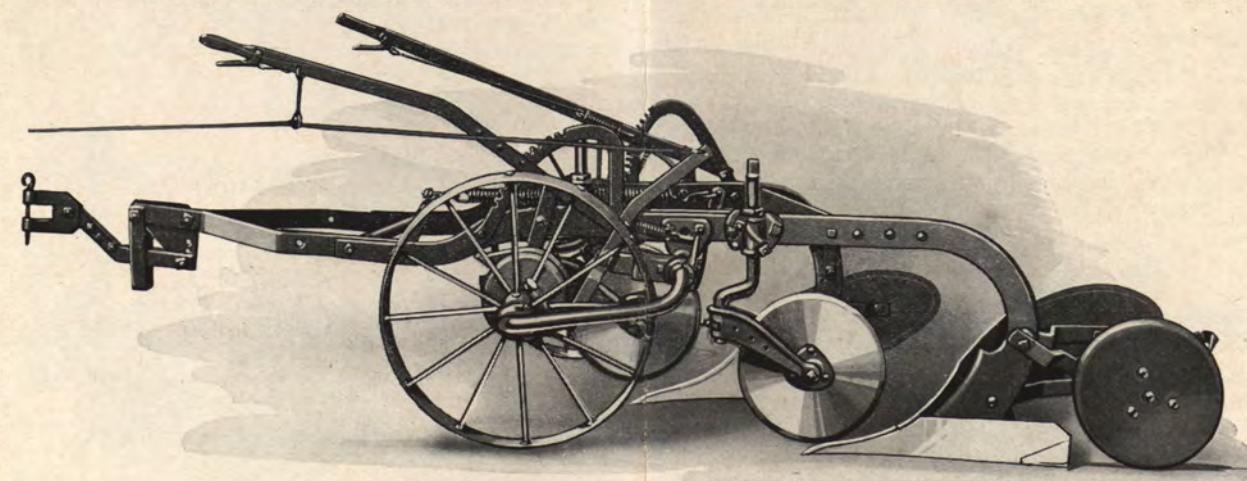
The land wheel of the plow does not follow in the track of the land wheel of the tractor, but runs inside of it. Should the land wheel of the tractor dig itself in as sometimes occurs in light or wet soils, the plow wheel following does not drop into the hole

made by the tractor wheel. The plow, therefore, travels level and does not vary the depth of plowing. This feature is important when plowing moist and light soil.

Positive Acting Power Lift

The Grand Detour No. 2 plow is equipped with a specially designed clutch for lifting the plows out of and dropping them into the ground. This clutch is operated by a rope within easy reach of the operator on the tractor. One pull of the rope and the plows drop quickly into the ground immediately taking their full depth. Another pull of the rope and the plows are quickly raised high and level. The clutch is attached to the land wheel which furnishes the power for raising the plows and, therefore, it requires no exertion on the part of the operator in raising the plows out of the ground. With this clutch no spuds are necessary on the land wheel on account of this highly efficient cam lift. A cam on the squared axle brings the plows up to an exceptional height.

Because of this lifting device the bottoms "take to" the ground quickly and come out equally fast. The plows can be raised to a height of 8 inches for transportation. Only one-half turn of the wheel is utilized for each operation of the clutch which is positive in action, requires no effort to operate and has few working parts.

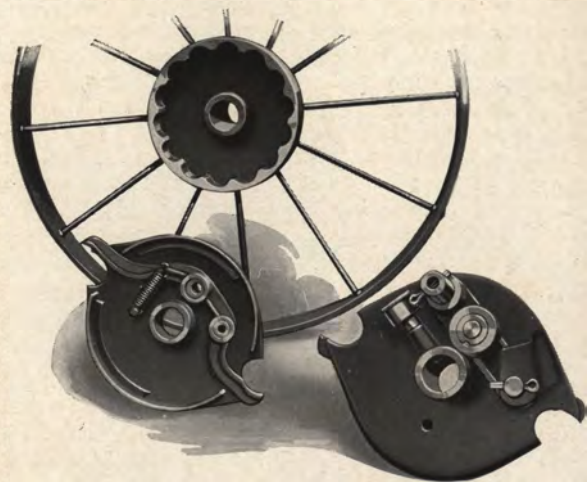


Built for Strength, Light Draft and General Good Service

"FOR LIGHT TRACTORS"



Well Built For Long Life



Special Construction of Power Lift Raises Plows Quickly and Easily to an Exceptional Height

A strong adjustable coil spring aids in raising the plows out of the ground. Depth adjustment can be easily made while plowing, by a boy, because of the action of this spring. *Ease of operation is one of the important advantages of Grand Detour Plows.*

Positive lubrication is obtained by the use of grease cups.

Levers Easily Operated

The No. 2 tractor plow is equipped with two levers—one for adjusting depth and one for leveling. Both levers are easily operated from the seat of the tractor. The levers are quick acting with long leverage for ease of operation. The depth adjusting lever is equipped with a spring to make it easy for man or boy to change the depth of plowing at any time.

Ample Clearance

Ample clearance is provided between the two bottoms and between the bottoms and the beams. The coulter is adjustable with unusually long standards for deep and shallow plowing.

Strong Construction

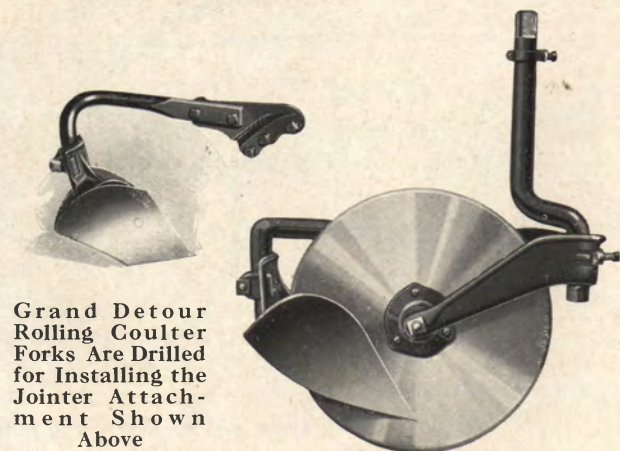
The No. 2 plow, though light in weight, has great strength. The beams are flat and are of special analysis Grand Detour high carbon steel and are

heat treated. They are guaranteed not to bend or break when operated by any two-plow tractor. There is a heavy brace of high carbon steel between the beams.

The weight of the plow is nicely balanced on a single axle. For this reason, when the plow is raised for transportation from field to field or over rough roads, there is no abnormal strain on the axle or the beams.

The axle is made of $1\frac{1}{2}$ " high carbon steel. Compare this and other specifications of any other plows for the same purpose and note why Grand Detour has established an enviable record for durability. The coulter shanks are heavy with correspondingly heavy coulter yokes. *Grand Detour Rolling Coulter Blades, made of electrically heat treated steel—last twice as long as ordinary blades.* There are a limited number of malleable parts on the No. 2 plow, none where they will break or bend, and the highest quality of steel is used throughout.

All wheels are exceptionally strong and designed to carry 100 per cent overload. The land and front furrow wheels are 26"x3"—high and wider rimmed than found on other plows—cause reduced draft and less depth variation. Rear wheel is 14"x2" solid pressed steel—located as close up to plows as is practical. The plow, suspended on wheels, with proper hitch adjustment, in operation performs with a minimum of draft. The front wheels are of the staggered spoke type, large, with long axle bearings and have ample provision for oiling. These



Grand Detour Rolling Coulter Forks Are Drilled for Installing the Jointer Attachment Shown Above

"FOR LIGHT TRACTORS"

Superior Bottom Construction



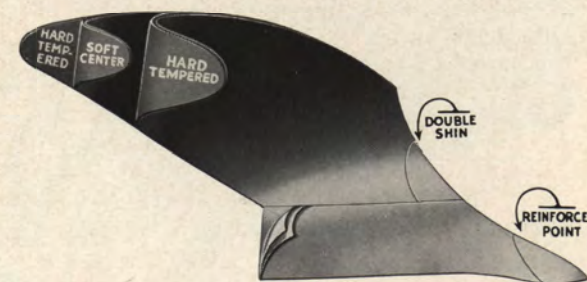
wheels will not fall apart under adverse plowing conditions.

Plow Bottoms

The shares and moldboards on Grand Detour plows are made with utmost care by skilled mechanics. The shares and moldboards are made of only the best grade of soft center steel and are carefully tempered and polished. So important do we consider this part of the plow that the plow bottoms are given a fourth polishing instead of the usual three in order to make scouring easier and quicker.

Every moldboard is tested for hardness and is guaranteed not to have any soft spots.

Wear resisting plates are welded on the shin of the moldboard and the point of the share to take care of the extra wear at these points. Soft center steel shares are regular equipment but shares of solid crucible steel or of chilled cast iron can be



All Grand Detour Soft Center Plow Bottoms are Strongly Reinforced at the Point and Shin

furnished if wanted. The variety of steel bottoms gives a choice to fit most any condition and kind of soil. They are furnished in the following styles: stubble, turf and stubble, breaker, rod breaker, black land, and slat. Chilled cast iron bottoms can also be furnished.

Equipment

The regular No. 2 plow is equipped with solid rear wheel, heat treated beams, power lift, pinbreak, tractor hitch, stubble or turf and stubble, black

land, slat steel bottoms or general purpose chilled cast iron bottoms and 15" rolling coulters. The front wheels are 26"x3", the rear wheel is 14"x2" and all wheel bearings are lubricated by grease cups. Bearings for coulters and rear wheel are of chilled cone type which are designed so that the wear does not come on the bolt. Bottoms may be 12" or 14" and are made of soft center steel. Shares are of the quick detachable type and can be changed by taking out one bolt, saving time and labor. The rear bottom is equipped with a detachable chilled cast iron heel highly resistant to wear.

Special Equipment

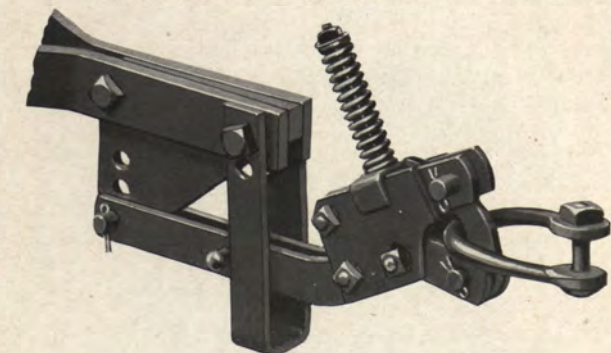
For a good job of covering under the most trashy conditions, the Grand Detour combination coulter-jointer cannot be excelled. The jointer comes as extra equipment and goes on the regular coulter. For stony land a jointer can be furnished for use without coulter.

Extra shares made of soft center steel, chilled cast iron or solid crucible steel may be secured.

Front wheels 26"x5" can be substituted for the regular 26"x3" at additional cost.

A special spring hitch or a hitch for rice territory can be furnished in lieu of the regular hitch at a slight additional cost. The spring hitch is designed to prevent breakage and is adjustable to suit plowing conditions. This hitch does not interfere with the oscillating features of the regular hitch and will not release when the plow is backed up.

A special hitch can be furnished when this plow is used with a tractor whose drive wheels run on the land.



Oscillating Hitch Assures Even Plowing Under Most Any Condition. Shown Here With Spring Hitch

"FOR LIGHT TRACTORS"

Faster and Better Plowing For All Tractor Owners

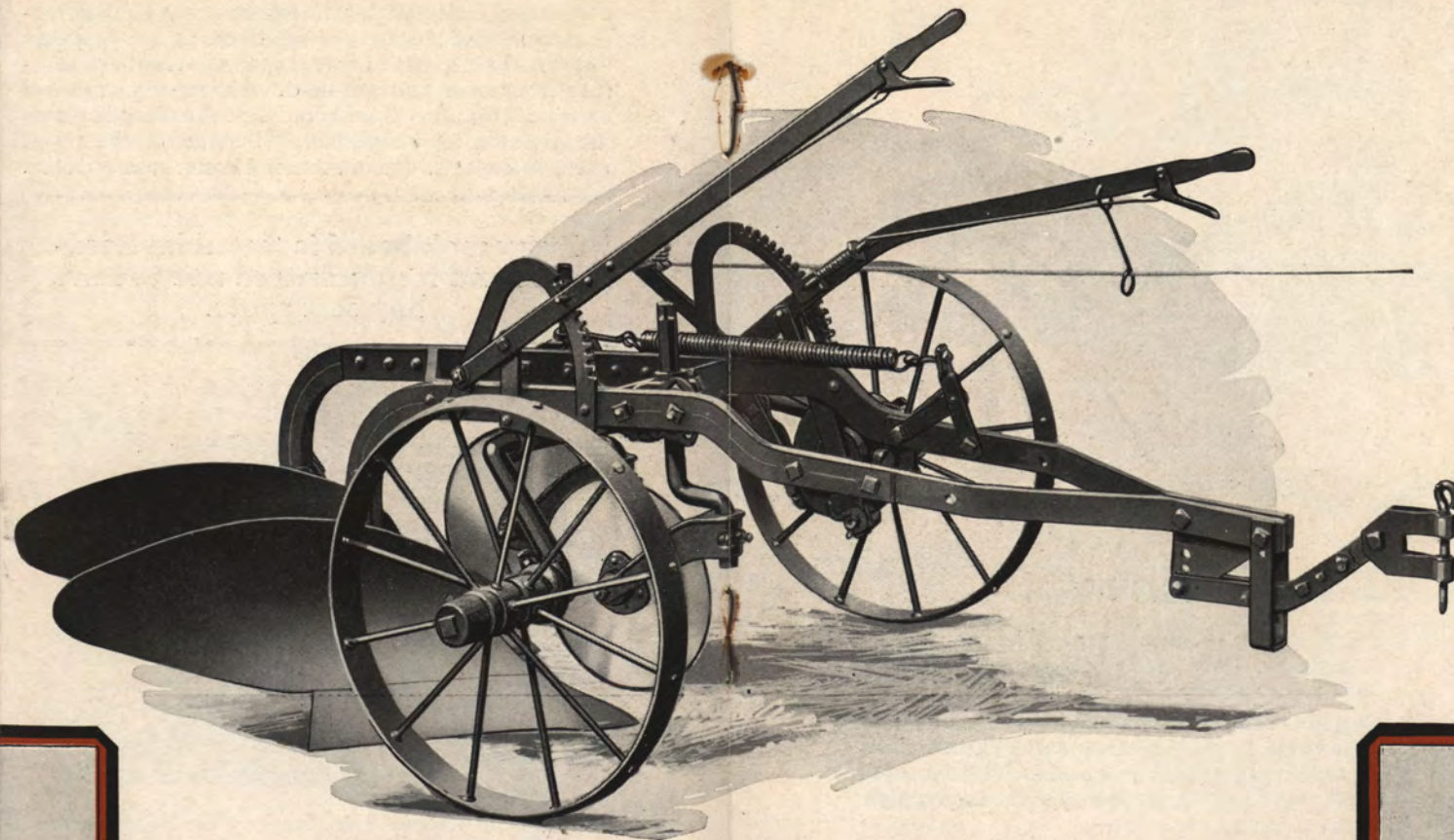
Light Draft and Durability.

Oscillating, Flexible Hitch—Even Depth of Plowing.

Quick Detachable Shares.

Easily Adjusted for Plowing Depth by Man or Boy.

Plow Bottoms Guaranteed to be Free From Soft Spots—Polished Four Times



Heat Treated Beams—Strong Construction.

Ample Clearance Between Bottoms and Under Beams.

Rear Wheel Reduces Draft.

Power Lift Raises or Lowers Bottoms Quickly and Surely.

Land Wheel Runs Inside of Path of Tractor Wheel.



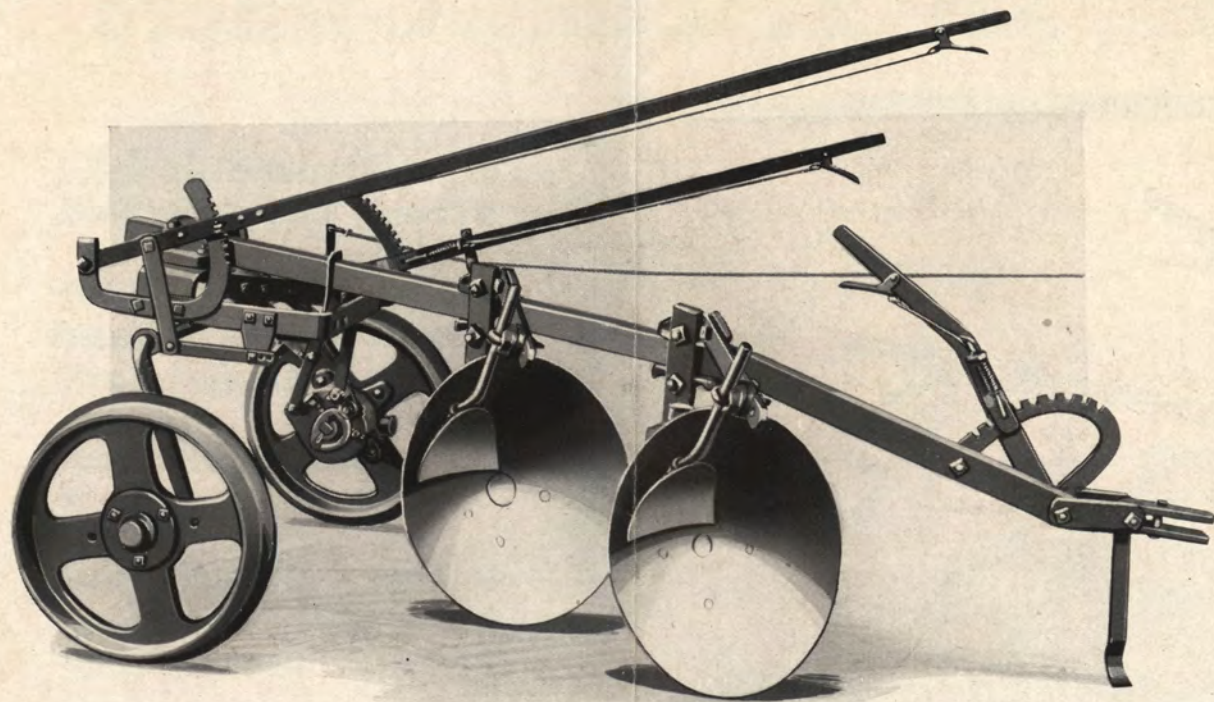
Tractor wheel going over obstruction does not affect the even depth of the plow.



The flexible hitch keeps plow level even when the wheel of plow encounters an obstruction. Note clean furrow.



For Difficult Plowing



Grand Detour No. 92 Disk Plow

THE new No. 92 Grand Detour Two-Furrow Disk Plow has been developed to meet the demand for a two-furrow disk plow that can be used with lighter tractors. This plow is particularly well adapted to plowing in hard dry stubble, black waxy loam or soil whose type makes it impossible for a moldboard plow to scour or penetrate. It is strongly built, and simple in operation.

You will find the Grand Detour No. 92 a highly desirable tool because of the following—

Distinctive Features

1. *Easily Adjusted Depth Lever*—Within Close Reach of the Operator.
2. *Front Levelling and Hitching Lever*—Saves Lifting the Front of the Plow.
3. *Positive Acting Power Lift*—Always Under the Driver's Control.
4. *Disk Standards Adjustable*—Cut 7 to 10-inch furrows.

5. *High Beam*—Gives Ample Clearance.
6. *Carefully Designed and Constructed*—Will Penetrate the Hardest Soil.

The heavy beam is of high carbon steel. The rear end is supported by a steel frame mounted on the same axle that carries the wheels. The two cast iron wheels run on long, renewable bearings which are lubricated by grease cups.

The plow is largely built of steel. Standards are of heat treated, forging quality steel. The disks are made of special analysis high carbon steel and are given the proper dish to do the best work. They can be sharpened to a keen cutting edge with a long bevel. Heavy chilled cone type bearings are used for the disk blades and are lubricated by grease cups.

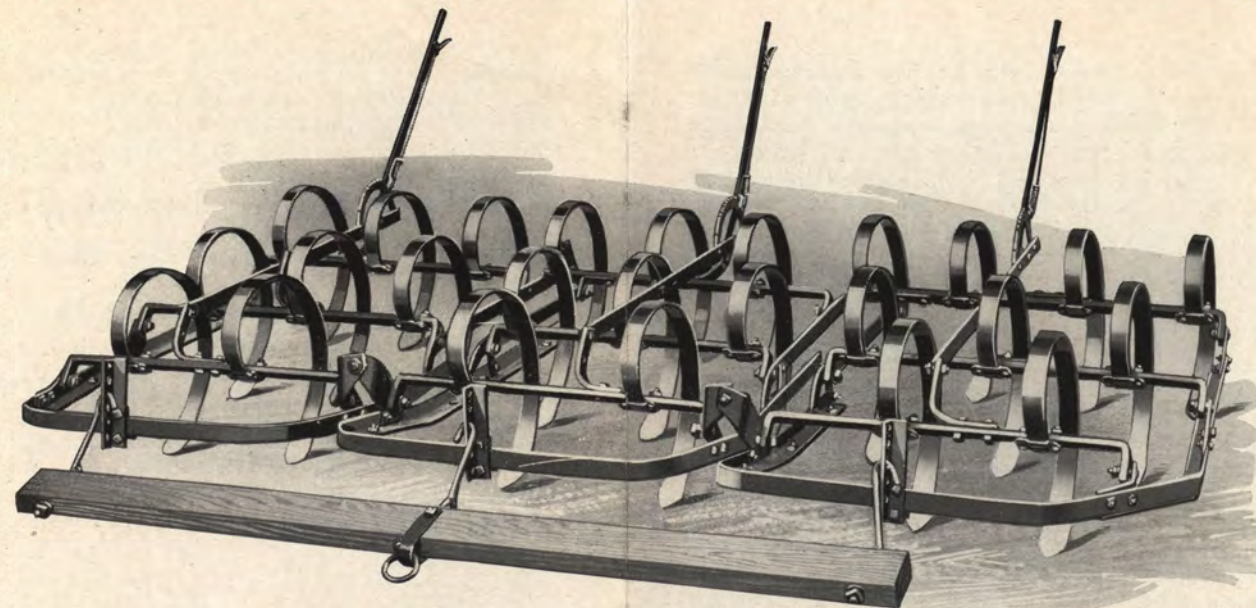
The No. 92 Disk Plow comes regularly equipped with scrapers and 24" disk blades.

Extra equipment includes 26" disk blades, extra heavy 24" and 26" blades and 50 or 100 pound wheel weights.

"FOR LIGHT TRACTORS"



Non Clogging—Flexible



Grand Detour Spring Tooth Harrow

Does Not Choke

SPECIAL care was exercised in designing and making the Grand Detour Spring Tooth Harrow to eliminate clogging between sections. This was accomplished by making the distance between any of the frames narrowest at the front.

The harrow is built strong and sturdy but flexibility, which is so much desired, has not been sacrificed. The sections are hinged together, allowing the harrow to conform to uneven ground and still not buckle.

The runners serve a dual purpose. They help to control the depth the teeth penetrate and they support the harrow when it is being moved, thus saving wear and tear on the teeth. The runners are made of high carbon steel $1\frac{1}{2}" \times 1\frac{1}{4}"$ and can be easily and quickly replaced after long wear.

Severely Tested Teeth

Only the very best grade of oil tempered, spring steel that can stand up to our rigid tests is used in making the teeth. They are both strong and flexible with the correct curve for the best penetration. The frames of the harrow are one piece $1\frac{1}{2}" \times 1\frac{1}{2}" \times \frac{3}{16}"$

high carbon steel, formed to allow ample clearance. The cross bars carrying the teeth are of heavy cultivator-beam channel-steel. The teeth are adjustable on the tooth clamp which permits taking up wear and replacing teeth.

Three styles of teeth can be furnished on order: Regular, Quack Grass and Alfalfa. The special quack grass tooth is very efficient in the eradication of quack grass and is equally satisfactory for general use.

Sizes

Grand Detour Spring Tooth Harrows are made in the following sizes:

- 2 Section, 15 Tooth, cuts 60"
- 2 Section, 17 Tooth, cuts 66"
- 3 Section, 23 Tooth, cuts 94"
- 3 Section, 25 Tooth, cuts 100"
- 4 Section, 31 Tooth, cuts 128"
- 4 Section, 33 Tooth, cuts 134"

Middle Section, 8 Tooth, cuts 34"

The 2-Section, 15-Tooth and 3-Section, 23-Tooth Harrows are made by removing the two outside rear teeth for the 17-tooth and the 25-Tooth Harrows, respectively.

"FOR LIGHT TRACTORS"



Excellent Field Work

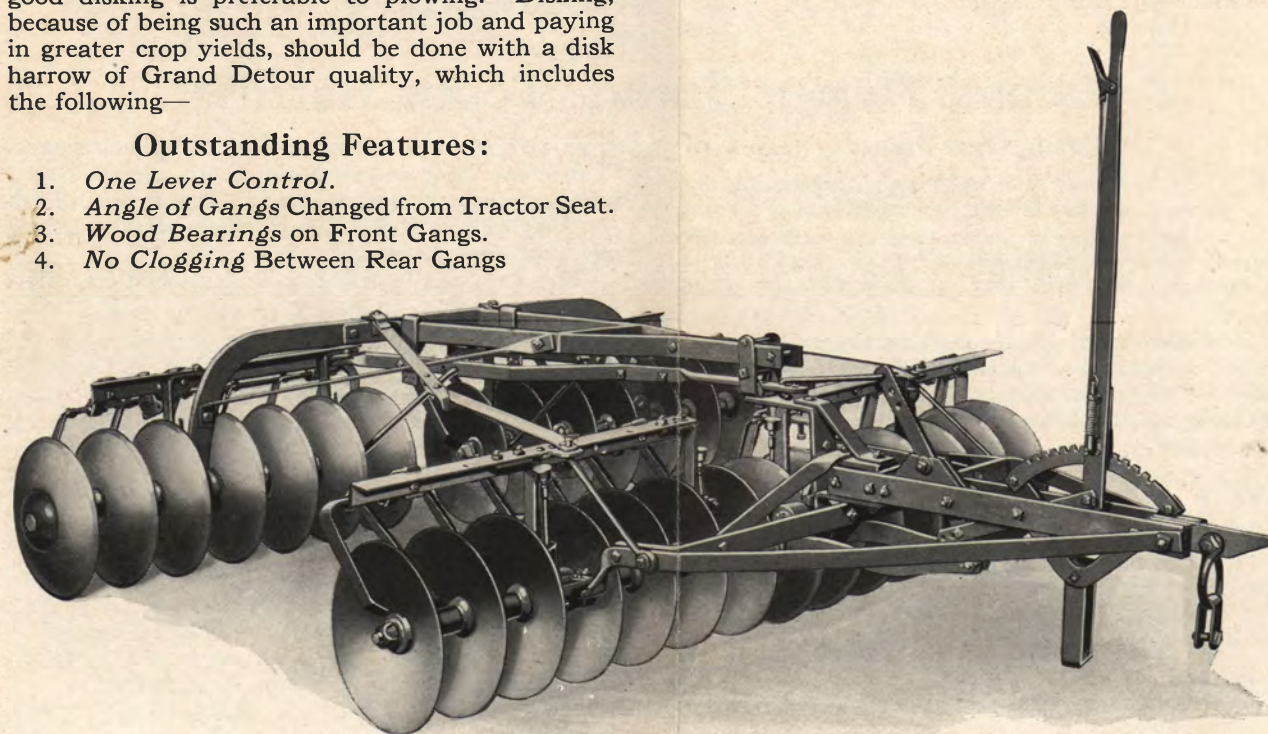
EVERY farmer knows the importance of proper seed bed preparation. Dearly bought experience has proven that good seed beds increase profits through larger and better crops. Any implement that will help in this important work, consequently, is highly appreciated.

For use after plowing, and in many instances even before plowing, no implement will take the place of a good disk harrow. The value of the disk harrows in cutting cornstalks in the spring before plowing is well known. By disking after grain harvest and before fall plowing the surface is broken up, so that when it is turned there will be no open gaps between the furrow slice and the bottom of the furrow. Weed growth that would waste moisture is destroyed.

After plowing, a good disking finishes up the work, breaking the plowed land by still further pulverizing and compacting the ground, leaving it level, smooth and in good tilth. In many instances, good disking is preferable to plowing. Disking, because of being such an important job and paying in greater crop yields, should be done with a disk harrow of Grand Detour quality, which includes the following—

Outstanding Features:

1. *One Lever Control.*
2. *Angle of Gangs Changed from Tractor Seat.*
3. *Wood Bearings on Front Gangs.*
4. *No Clogging Between Rear Gangs*



One Lever Control is Appreciated by the Tractor Operator

“ FOR LIGHT TRACTORS ”

5. *Ball Bearings Take Outward Thrust of Rear Gangs, Reducing Friction and Draft.*
6. *Correct Following of Rear Gangs.*
7. *Durable Construction—Only High Grade Material Used.*
8. *Heat Treated Blades — Tempered and Treated with Electric Heat.*
9. *Easily Adjusted Scrapers—Keep Blades Clean.*
10. *Transport Trucks—Make Moving Easy.*

One-Lever Control

The simple one-lever control on the Grand Detour Tractor “B” Disk Harrow makes it possible for the operator to change the angle of both front and rear gangs without leaving the tractor seat. A special adjustment is provided for changing the angle of the rear gangs independent of the front gangs.

Quick Easy Adjustments



Wood Bearings on Front Gangs

The inward thrust of the front gangs is taken up by large, cast iron bumpers on the inner ends of the gangs. Front gang bearings are of durable hard maple, thoroughly soaked in linseed oil, enclosed in practically dust-proof cast iron housings and are lubricated by means of large, easily reached hard oil cups. These bearings may be replaced easily.

Ball Bearings Reduce Draft

The outward thrust of the rear gangs is carried by ball bearings, there being two sets of bearings in each gang. They roll in strong, chilled cast iron housings and are lubricated by means of an easy-to-get-at oil pipe. They eliminate much of the end friction on the boxes and reduce draft.

Rear Gangs Follow Correctly

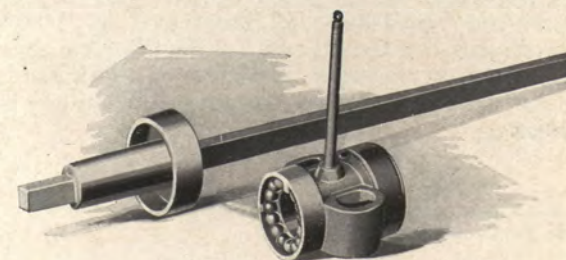
On Grand Detour harrows the rear gangs follow correctly. They are connected by diagonal draw irons from the middle of the rear gangs to the center of the front gangs which maintain the correct cutting relation at all times. All soil is moved and cut level the entire length. As a result, the rear disks penetrate evenly at all times.

No Clogging Between Inner Blades of Rear Gangs

The rear gangs on this harrow are not placed directly opposite each other, the right hand gang travels about eight inches back of the left hand gang. This prevents clogging between the inner blades of the rear gangs, leaving no ridge, and permits of cutting to a full, even depth.

High Quality Material

Our years of experience have taught us that only the best and highest quality material will satisfy



Ball Bearings Take Outward Thrust on Rear Sections and Reduce Draft



Offset Construction of Rear Gangs Leaves No Ridge

our users. In the Grand Detour Tractor “B” will be found a strong, heavy, durable disk harrow that will not twist or warp; simple in construction, easily operated with very low upkeep, that will do the work in a highly satisfactory manner.

Steel Rear Arch

The rear arch, a single piece of steel, holds the gangs rigidly in position and aids in penetration even under very bad conditions. The gang bolts are 1 1/8" heavy steel with spools and bearing castings equally heavy. The disk blades are of high carbon open hearth steel. They have a sharp cutting edge and are curved to the correct concavity.

Built in 5 sizes (tandem)

6 ft	24 blades
7 ft	28 blades
8 ft	32 blades
9 ft	36 blades
10 ft	40 blades

Equipment

Scrapers, tractor hitch and regular round blades, 16" or 18" in diameter, both front and rear.

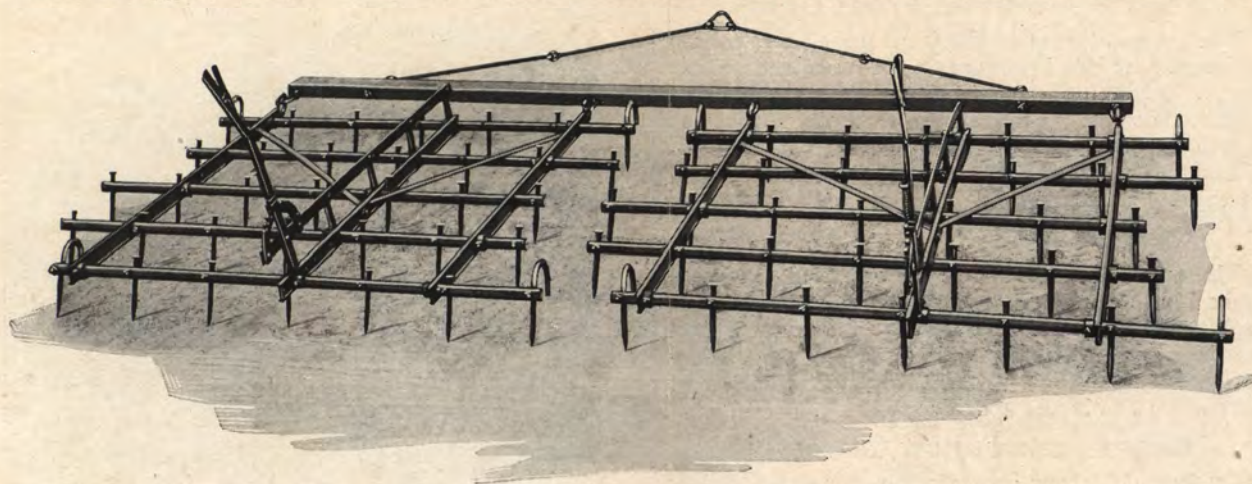
Extra Equipment

Transport trucks, fore-truck, center cutting attachment for rear gangs, and weight boxes.

“ FOR LIGHT TRACTORS ”



Strong Durable Construction



Grand Detour U-Bar Harrow

EIGHTY-NINE years of experience in manufacturing farm implements has gone into building Grand Detour U-Bar Harrows. They are built strong, and durable and of good materials. They will pulverize the soil, smooth the ground, form a dust mulch, and kill weeds in a way that will delight the user.

The bars used in the construction of this harrow are made of U shaped cross sections and are stronger than pipe of equal weight. The center and end bars are of channel steel. The whole section is braced diagonally by two bars. The lever and quadrant are of all steel construction with no malleable or cast iron parts to break or wear out. Draw hooks are riveted to the front end of the two outside bars.

The teeth are $\frac{5}{8}$ " x $\frac{7}{8}$ " dagger point diamond cross-section spikes, and when worn on one side they can be reversed in the holders. They are held firmly in position on the U-bars by a single clamp.

Runner Teeth Save Wear

Runner teeth are provided on each corner for transportation purposes. When the lever is thrown forward the entire weight of the harrow rests on these runners which are bent to provide ample clearance for transportation. The teeth can be adjusted to any angle.

Sizes

The Grand Detour U-Bar All Steel Lever Harrows are built in 1, 2, 3, or 4 sections, with either 30 or 35 teeth to the section. The 30-tooth section cuts $5\frac{1}{2}$ feet, the 35-tooth section cuts 6 feet. Square-end Wood-bar and Square-end Steel harrows; Zigzag-end Guard and Folding Flexible Steel Pipe Harrows can also be furnished. These harrows can be used to splendid advantage behind your tractor.

NOTICE—We want the public to know that our plows and harrows are
Not the Case plows and harrows made by the J. I. Case Plow Works Co.

J. I. CASE THRESHING MACHINE COMPANY, Inc.
RACINE *Established 1842* **WISCONSIN**