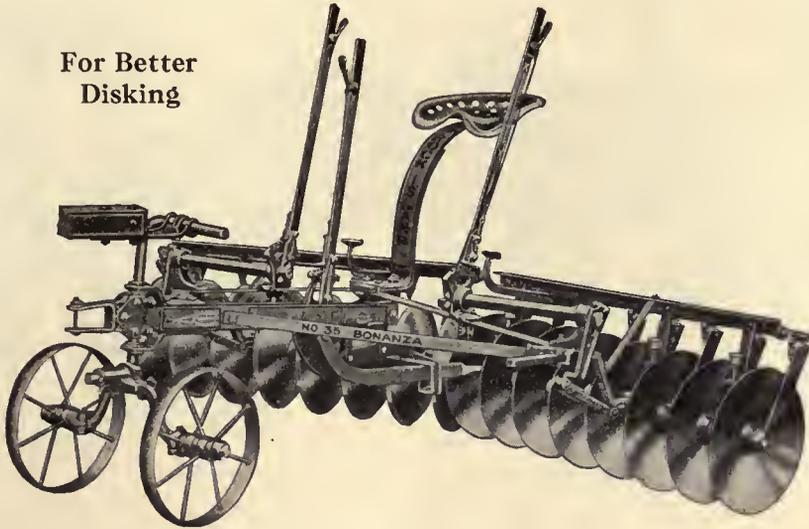


ROCK ISLAND
DISC HARROWS
penetrate, pulverize
and pack the soil
for better crops



Gangs Angle from the Outer Ends

For Better
Disking



Rock Island No. 35 Bonanza Disc Harrow

FOR over twenty years the Rock Island No. 35 "Bonanza" Disc Harrow has proved its ability to do a complete job of disking with less trouble for the driver and less strain on the harrow than experienced with any ordinary disc.

A Patented Rock Island Feature

It is the harrow with *gangs angled at the outer ends* instead of the inner ends. Being angled from the outer ends, the bumpers of the Rock Island "Bonanza" Disc Harrow are the pivotal points and always remain stationary. No matter if one gang is running at a very slight angle and the other at an extreme angle, the inner discs cannot ride or cut into each other. When you angle the discs, you pull the load up closer to the team, giving a shorter hitch and lighter draft.

Pressure Is Always Constant

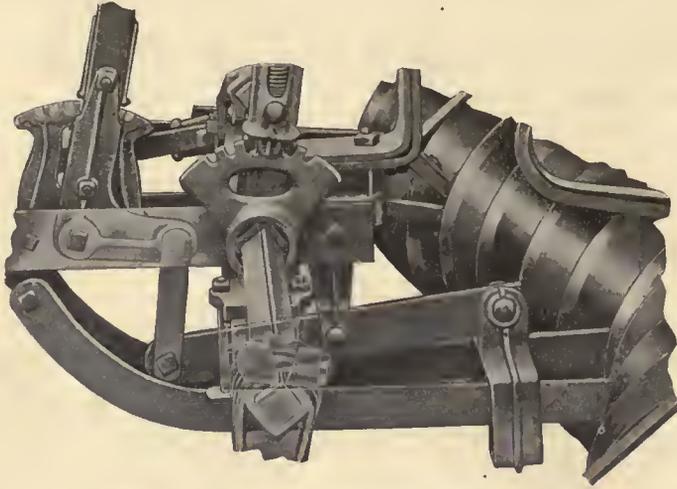
Angling the gangs from the outer ends also makes it a much easier and more simple matter

to apply pressure to the proper extent and to the proper part of the harrow to disk the entire field at even depth. The proper place to apply the pressure is in the center, at the rear of the cross frame. Then when the gangs are angled from the outer ends, as is the case with the Rock Island "Bonanza," the center remains in a fixed position, which guarantees constant pressure and even penetration at all times.

The desired amount of pressure can be applied instantly to the gangs of this harrow by means of the third or pressure lever. This lever carries the pressure ten inches closer to the gangs than is possible with other harrows—all due to angling from outer end. In uneven fields or in cutting out dead furrows or disking over ridges, the pressure can be increased or decreased by throwing this lever forward or back. It requires very little movement, as the *pressure is applied direct to the drawbars* closer to the gangs.



ROCK ISLAND No. 35 BONANZA DISC HARROW—Continued



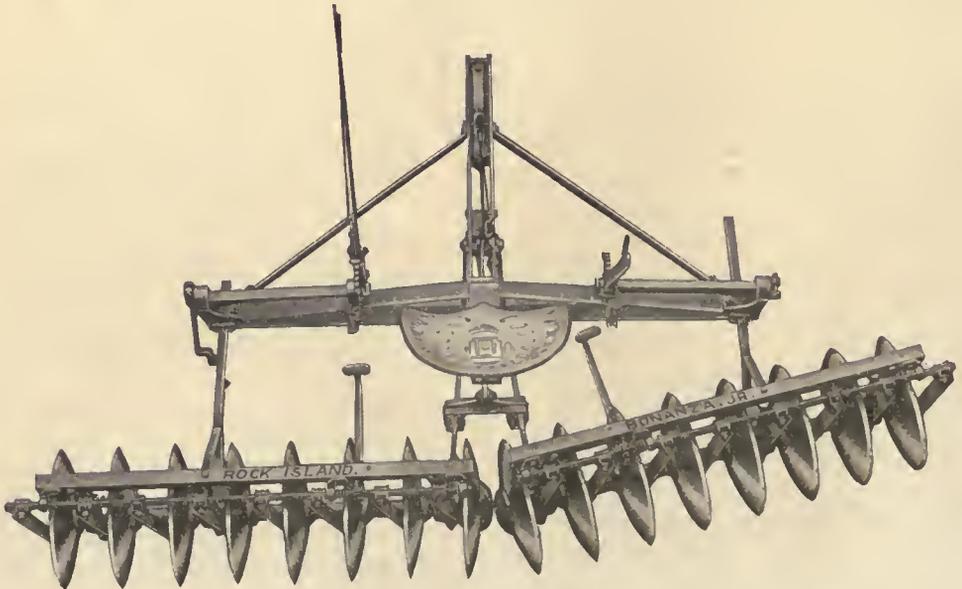
Detail View of Instantaneous Pressure Lever

Hard Maple Bearings

These wood bearings are hard maple, boiled in linseed oil and protected from sand and dirt by a flange on the bearing spools and openings at the ends of the lower spool box.

The bearings are oiled by means of grease cups, mounted on oil tubes threaded into the bearing up out of the dirt, and easily filled.

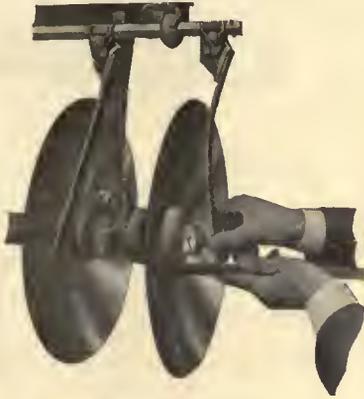
The bearings and boxes are the same—there are no rights and lefts.



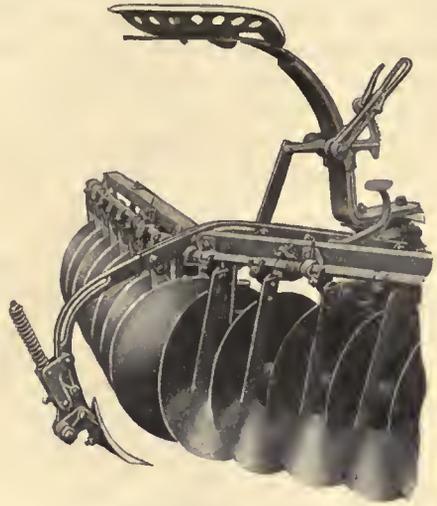
Top View of Rock Island Bonanza, Showing How Bumpers Are Always in Same Relative Positions



ROCK ISLAND No. 35 BONANZA DISC HARROW—Continued



Note the Flexibility of Rock Island Scrapers



Center Tooth Attachment

The Original Spring Steel Scrapers

Rock Island disc harrows are equipped with the original spring steel individually detachable, oscillating disc scrapers. When at rest, the scrapers are near the center of the discs. By means of the foot lever, the scrapers may be held at any point on the discs, or made to sweep across the entire disc from center to outside, cleaning it thoroughly. This prevents trash from clogging the discs or winding around the spool.

The castings are made right and left, which permits the cutting edge of the scraper to conform with the angle of the disc.

The scrapers are set about one-eighth of an inch from the disc when near the center of disc. There is no wear on the scrapers except when in operation. They are set at the proper angle to the disc so that the wear comes on the

end instead of the side, and, therefore, will not clog.

Rock Island Transport Trucks

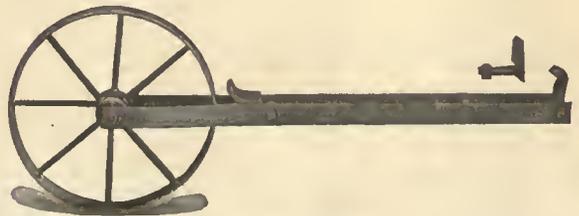
The use of these trucks prevents damage to the discs of the harrow and removes all chances for them to become dull or nicked when being hauled over rough, stony roads, or from one field to another. As hard roads come into general use, transport trucks become a necessity. The trucks not only serve as a protection to the discs of the harrow, and add to the convenience in moving, but also prevent the cutting up of fields and damage to the roads.

Steel Stub Pole

The steel stub pole will not split or break. With it one can use any of the attachments for Rock Island Discs, such as the fore-carriage, set-over attachment, etc.



Bearings Used on Rock Island Disc Harrows



Transport Truck



ROCK ISLAND No. 35 BONANZA DISC HARROW—Continued

The steel stub pole also makes possible an improved seat spring, which adds greatly to the comfort of the operator when using the Rock Island "Bonanza" or "Defiance" Harrow. It is exceedingly flexible and strong. It is of a double leaf type and made of spring steel.

Set-Over Attachment

The set-over attachment permits the pole to be set to one side so that an odd number of horses may be used. The evener is attached to the under side of the stub pole by a hammer strap.

Rock Island Fore-Carriage

The Rock Island fore-carriage saves the team and is easier for the operator. It does not change the suction of the discs. It has steel wheels and oval tires. Dust-proof boxes and long-distance axles add to the durability and easy running. The axle is in the shape of an arch. This gives plenty of clearance when working in rough ground or straddling a corn row. The axle is pivoted in the center, allowing either wheel to pass over obstructions without any strain whatever on the horses' necks or the harrow.

The Rock Island fore-carriage will fit any standard disc harrow, and is strong enough for the very largest. In reality, it is a combined fore-carriage and tongue truck, and may be used either with or without the tongue, as desired.



The Rock Island Fore-Carriage Readily Passes Over All Obstructions

The Rock Island fore-carriage is adaptable to be used with either an even or odd number of horses.

Specifications

- Instantaneous center pressure lever.
- Double lever. Coulter steel discs.
- Oscillating scrapers.
- Hard maple interchangeable bearings, boiled in oil.
- Tongue trucks, weight boxes, and neckyokes extra; also set-over attachment for pole, 3 and 5 horses. Fore-carriage for 2-, 3-, 4- and 5-horse hitch. Transports.

Solid Blades

TRADE NUMBER	Number of Discs	Diameter of Discs Inches	Width of Cut Feet	Style of Evener No. of Horses	Shipping Weight Pounds	Telegraph Code
B 8-16	8	16	4	2	388	Logic
B 10-16	10	16	5	2	412	Loim
B 12-16	12	16	6	3	527	Loiter
B 14-16	14	16	7	4	557	Loll
B 16-16	16	16	8	4	589	Lone
B 18-16	18	16	9	4	632	Loned
B 20-16	20	16	10	4	672	Lonet
B 8-18	8	18	4	2	410	Lonely
B 10-18	10	18	5	2	445	Long
B 12-18	12	18	6	3	549	Look
B 14-18	14	18	7	4	600	Loom
B 16-18	16	18	8	4	631	Loop
B 18-18	18	18	9	4	678	Loor
B 20-18	20	18	10	4	718	Loov

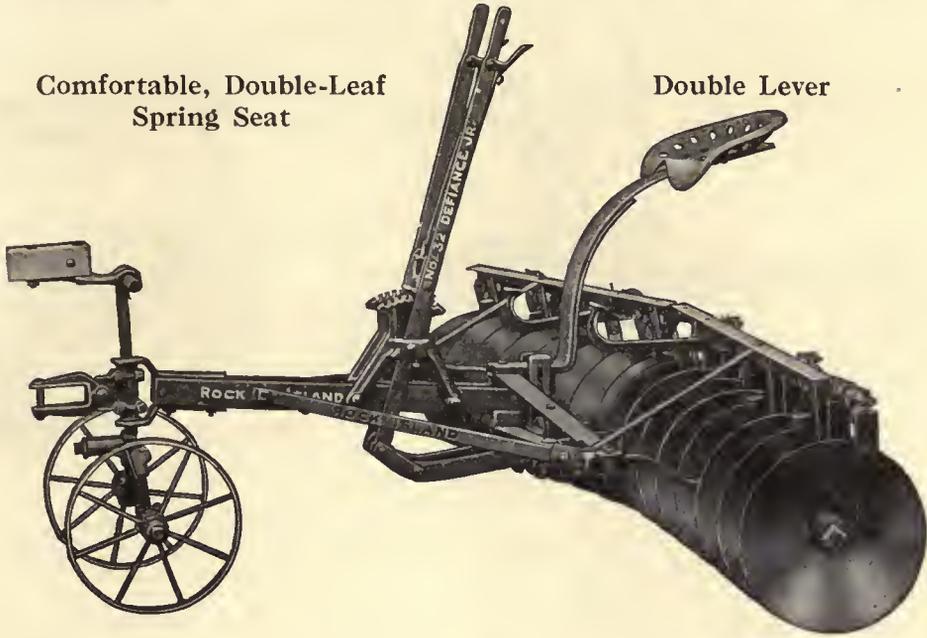
For special eveners, see pages 110, 111 and 112.



Prepare the Seed Bed for Bigger Crops

Comfortable, Double-Leaf Spring Seat

Double Lever



Rock Island No. 32 Defiance Disc Harrow

ROCK ISLAND No. 32 DEFIANCE is a deep-cutting, light draft disc harrow, which you will find to be both reliable and durable. It is made in five widths, cutting from 6 to 10 feet. All sizes are equipped with double levers. The double levers enable the gangs to be set at different angles for working on the hillside or for double disking. The gangs angle at the center. On the "Defiance" the center pressure is applied by an adjustable pressure casting.

tion is amply strong to withstand the most severe work and, at the same time, holds the outer ends down perfectly rigid, keeping the gangs level, so they will penetrate to an even depth. The discs are properly shaped to penetrate deep and pulverize the soil.

General Construction

The frame is steel-trussed, supported by steel pole braces placed edgewise. This construc-

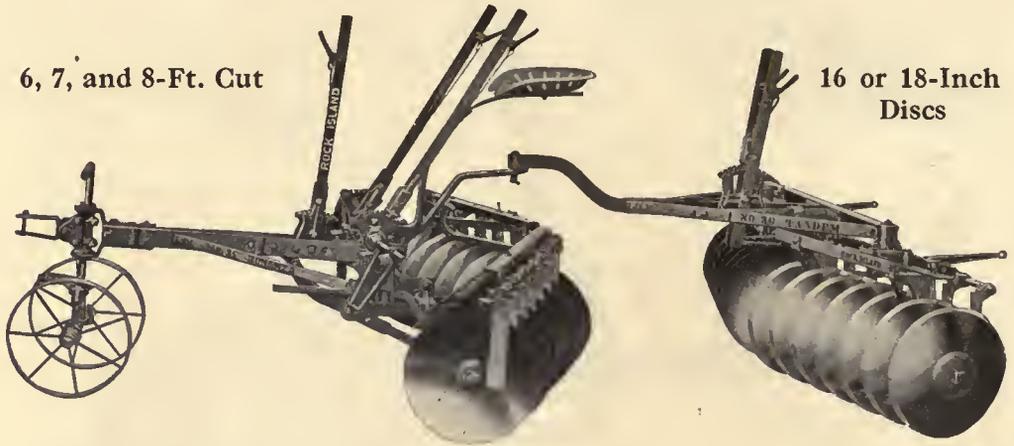
The "Defiance" is equipped with steel stub pole; hard-maple, oil-soaked bearings, and oscillating spring steel scrapers described in detail on pages 118 and 119. Transport trucks, set-over attachment, and fore-carriage are described in detail on page 119. For special disc harrow eveners, see pages 110, 111 and 112.

Specifications

TRADE NUMBER	No. of Discs	Diameter of Discs Inches	Width of Cut Feet	Style of Evener No. of Horses	Shipping Weight Pounds	Telegraph Code
D-12	12	16	6	3	476	Lurch
D-14	14	16	7	4	506	Lust
D-16	16	16	8	4	538	Luster
D-18	18	16	9	4	579	Lute
D-20	20	16	10	4	639	Luxury
D-12	12	18	6	3	518	Lynx
D-14	14	18	7	4	548	Lyric
D-16	16	18	8	4	580	Lythe
D-18	18	18	9	4	606	Mab
D-20	20	18	10	4	626	Mabie



Double Disk in One Trip over the Field



Rock Island No. 36 Tandem Attachment for Disc Harrows

THE ROCK ISLAND Tandem Attachment for Disc Harrows is strong and durable, easily attached, and will mean a great saving to your customer in preparing his land.

By the use of the Rock Island Tandem Attachment he is able to double disk land in one trip over the field—a saving in labor cost, and a great advantage when a late season necessitates the hurried preparation of the ground for planting.

It leaves the land perfectly level and in an ideal condition for a seed bed. This means the earlier germination of seed and a stronger and more thrifty crop, which will add to his profit at harvest.

The Rock Island Tandem Attachment is

capable of the hardest usage, and works successfully under the most adverse conditions. The frame is angle and bar steel, well braced, very strong, and rigid.

The attachment is equipped with two levers which give independent adjustment of the gangs. They may be set for working at different angles, if ever so desired.

The pivoting point of the frame is directly under the seat. This makes possible a quick turn in as short a radius as when using a single harrow, and permits closer working up to the corners.

The bearings used on the Rock Island Tandem are of the same type as those used on the regular harrows.

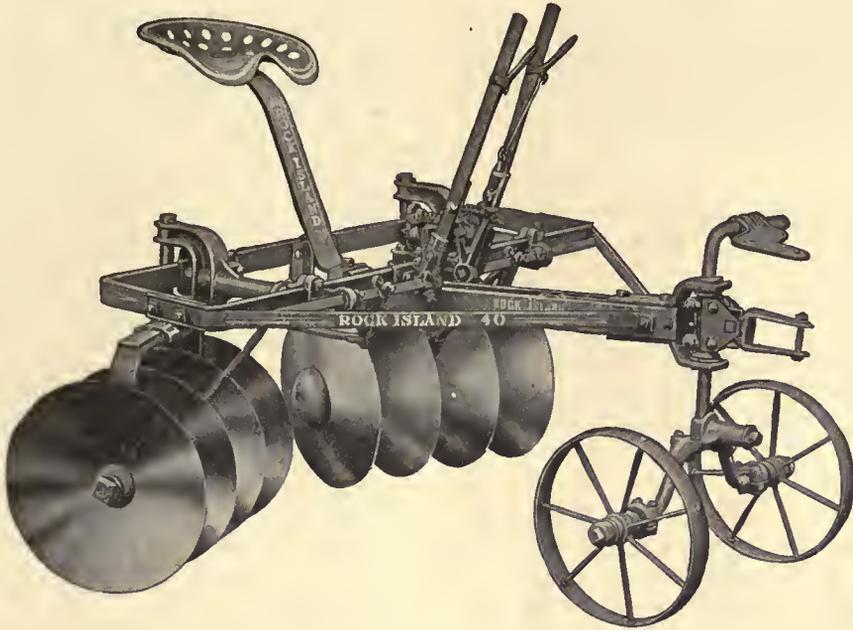
Tandem Attachment for

Bonanza and Defiance Disc Harrows with Steel Stub Tongue and Oscillating Scrapers

TRADE NUMBER	Number of Discs	Diameter of Discs Inches	Width of Cut Feet	Shipping Weight Pounds	Telegraph Code
T-12-16	12	16	6	382	Omi
T-14-16	14	16	7	416	Omib
T-16-16	16	16	8	466	Omic
T-12-18	12	18	6	432	Omid
T-14-18	14	18	7	474	Omif
T-16-18	16	18	8	510	Omig



Disc Harrows for Field or Orchard



Rock Island No. 40 Reversible Disc Harrow with Steel Stub Pole

In addition to ordinary field work, the Rock Island No. 40 Reversible Disc Harrow is especially adapted to the cultivation of orchards, vineyards, corn, cotton, and all crops planted in rows or hills.

The frame is wide enough to permit the inner ends of gangs to be placed as far apart as required for use as a cultivator, and also far enough to cultivate under vines and small trees.

The rear bar of the frame, which receives the strain of the end thrust of the gangs, is made of high carbon steel, heavy and rigid.

An extra wide frame can be furnished for use in vineyards or orchards.

The seat is placed well back. This helps to balance the harrow when used without tongue

truck, and permits the driver to watch its work when used as a cultivator.

Out-Throw or In-Throw

When the gangs are set for throwing out, they can be set close together, just like an ordinary disc harrow.

It is very easy to reverse the gangs. Remove one cotter from each lever-connecting strap and one bolt from each gang brace. Turn the gangs around and put in your bolts and cotters.

Scrapers are not usually needed, and are furnished only on special orders at extra charge. They are attached to each gang by only two bolts, and can be quickly changed when the gangs are reversed. They can be instantly locked out of contact with the discs by foot levers within easy reach of the operator.



ROCK ISLAND No. 40 REVERSIBLE DISC HARROW—Continued

Adjustment of Gangs

The square rock shaft for lever and connections does away with superfluous joints and lost motion, while providing easy adjustment of width—no parts disconnected or removed to change width.

The gangs may be tilted as desired for ridges or trenches—very easy to adjust.

The full movement of the lever may be used with the gangs set for either out-throw or in-throw. For out-throw the levers are in the extreme rear notch of ratchets when gangs are straight; for in-throw they are in extreme forward notch.

This feature gives you a chance to angle the gangs as much as desired—far more than if levers were at centers of ratchets with gangs straight. When you need power on the lever, you *always apply it by pulling*—never by pushing.

Bearings

All the bearings for the axles or spools of the gangs are made of hard maple, boiled in linseed oil. Nothing better for this purpose has yet been found. These wood bearings are protected from sand and dirt by flanges on the bearing spools.

Fore-Carriage

This harrow is furnished with or without the fore-carriage, and (for two horses) with or without the tongue.

The fore-carriage can easily be attached later as all the necessary holes are in the tongue and stub tongue.

This is the regular Rock Island Fore-carriage. It is the same as furnished for our standard disc harrows. It will fit any of them, and is strong enough for the very largest.

Up-and-down adjustment is provided to give just the right height to the stub tongue.

The axle is arched, to clear ridges and obstructions and keep the center bearing out of the dust and dirt.

The wheels are 16 inches high, with wide oval tires, staggered spokes and dust-proof magazine hub boxes.

Eveners

Harrows with eight or ten discs are furnished regularly with 2-horse evener. A 3-horse evener can be furnished at a small advance in price, if desired, for use without tongue.

Neckyoke furnished only as an extra.

Specifications

TRADE NUMBER	Number of Discs	Diameter of Discs Inches	Width of Cut Feet	Shipping Weight Pounds	Telegraph Code
R- 6-16 Solid Discs	6	16	3	365	Manilara
R- 6-18 Solid Discs	6	18	3	383	Manilate
R- 8-16 Solid Discs	8	16	4	377	Manner
R- 8-18 Solid Discs	8	18	4	394	Mantle
R-10-16 Solid Discs	10	16	5	394	Manx
R-10-18 Solid Discs	10	18	5	421	Many
3-foot Scrapers, extra (solid) . . . . .	..	..	..	24	Maple
4-foot Scrapers, extra (solid) . . . . .	..	..	..	27	Mar
5-foot Scrapers, extra (solid) . . . . .	..	..	..	30	Marble
Extra Wide Frame, extra . . . . .	..	..	..	61	Maret



Rock Island
No. 37

Tractor Disc Harrow

"Heider" Tractor and Rock Island No. 37
Tractor Disc Harrow

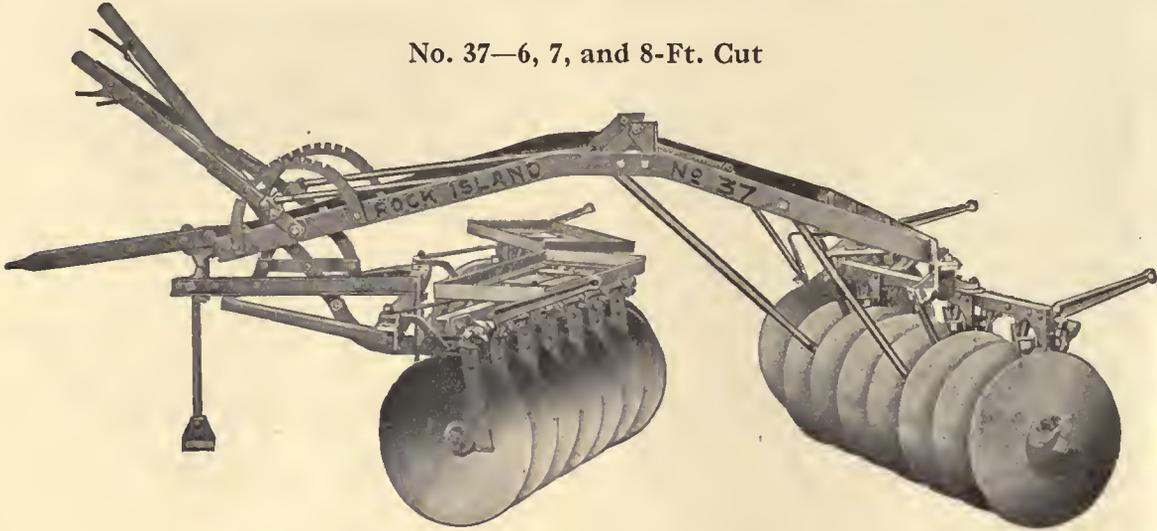


Rock Island No. 37 Tractor Disc Harrow and Fordson Tractor



Lever Controlled Tractor Disc Harrows

No. 37—6, 7, and 8-Ft. Cut



Rock Island No. 37 Tractor Disc Harrow

THE Rock Island No. 37 Tractor Disc Harrow will work behind any make of tractor. It is so evenly balanced and correctly designed for adapting itself to the varying conditions of the ground that a very thorough job of disking is done.

The No. 37 is truly a one-man tractor disc harrow. It is absolutely under control of the tractor operator at all times, whether in motion or standing still, without the necessity of the operator leaving the cab.

Three Levers Operated from Tractor Control the Discs

The center lever controls the right and left sections of the front harrow, while the levers on the right and left side control the right and left sections of the rear harrow. It is absolutely necessary under certain conditions to be able to adjust the angle of rear harrow less than the angle of the front harrow. This can be done instantly with the No. 37.

Your customers will appreciate this one-man control in the spring of the year, when the ground is in a moist or wet condition. Then the angle of the discs must necessarily be

changed frequently in order to pull through. With the Rock Island No. 37 he can quickly set discs at any angle without leaving the tractor or stopping the engine.

In a wet field, after the tractor loses its traction, he does not have to depend on the tractor to angle the discs or take out the angle by stopping and backing up. With the Rock Island lever control he simply eases the load by taking the angle out with the levers.

Independent Flexible Gangs

The extreme flexibility in both front and rear gangs is an exclusive feature with the No. 37.

The rear frame runs forward, over the top of the front frame, and is connected to the draw bar of the tractor, while the frame of the front harrow is pivoted both laterally and vertically to the rear frame.

This connection is the same as though the front and rear harrows were being pulled independently. Thus either section can turn independently, and each section is also flexible vertically. This is an exclusive, patented feature.

ROCK ISLAND No. 37 TRACTOR DISC HARROW—Continued

This feature can be better appreciated when working in rough or hilly ground, as either set of gangs goes into depressions and ridges irrespective of the other.

The center pressure for the front harrow can be easily adjusted to meet the requirements in working over ridges or depressions in the field. The rear harrow also has an adjustment for leveling the gangs.

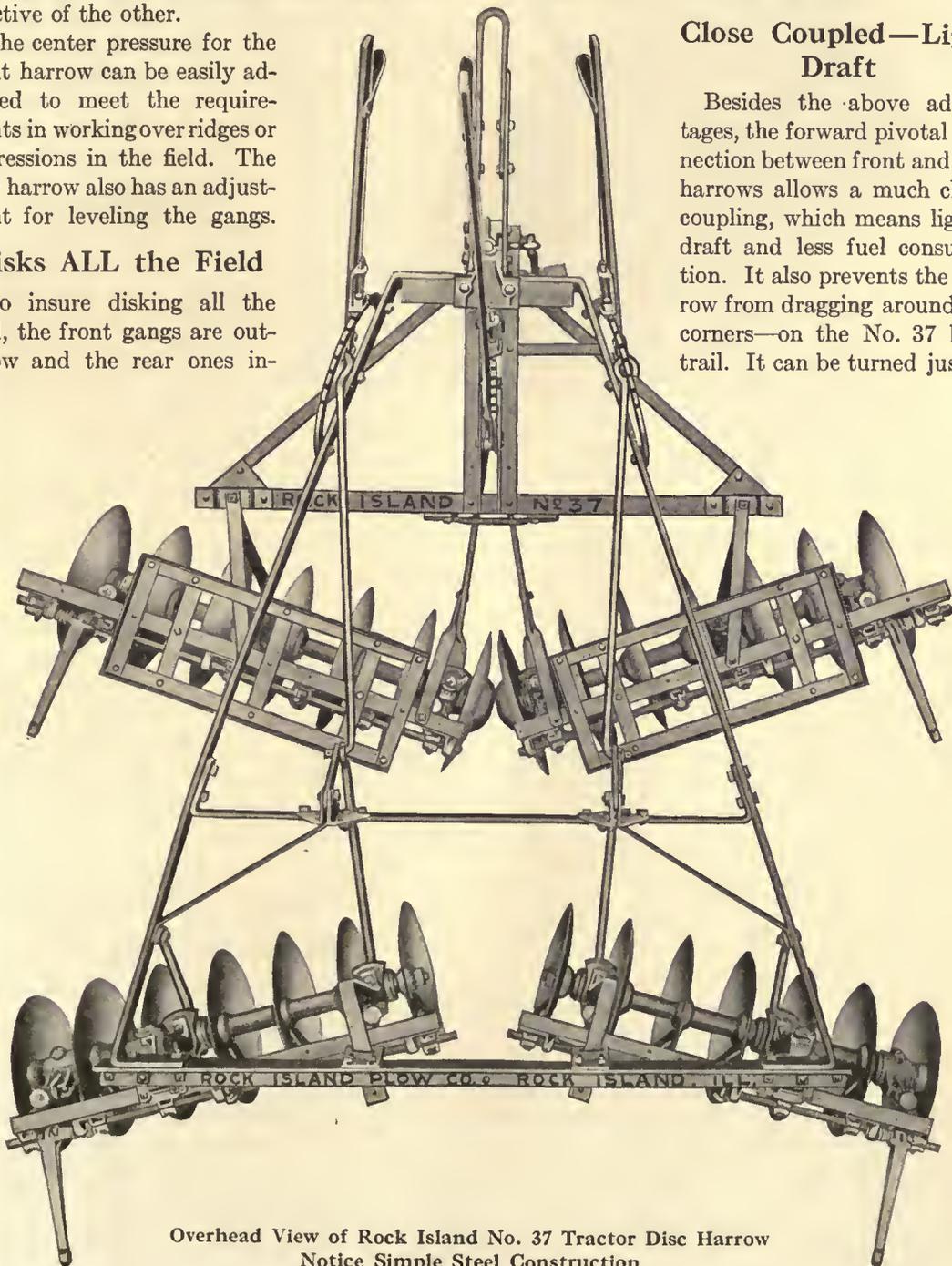
Disks ALL the Field

To insure disking all the field, the front gangs are out-throw and the rear ones in-

throw. The rear discs are spaced so, that they cut the ground left between the front discs. All the soil is pulverized and left level.

Close Coupled—Light Draft

Besides the above advantages, the forward pivotal connection between front and rear harrows allows a much closer coupling, which means lighter draft and less fuel consumption. It also prevents the harrow from dragging around the corners—on the No. 37 both trail. It can be turned just as



Overhead View of Rock Island No. 37 Tractor Disc Harrow
Notice Simple Steel Construction

ROCK ISLAND No. 37 TRACTOR DISC HARROW—Continued



Rock Island
Oscillating
Scrapers

short as any tractor, yet it is impossible for the front discs to cut into the rear ones, as both gangs turn independently.

Rock Island Oscillating Scrapers

The famous Rock Island Oscillating Scraper is furnished regularly on the No. 37, and is known universally as "the scraper that really scrapes." The scraper blades are made of spring steel, almost impossible to break, and always spring back to position. One scraper can be taken off without removing the others. They are made right and left, which permits the cutting edge to conform with angle of disc. This scraper keeps the center of disc clean, which is all that is necessary under ordinary conditions, but in severe conditions, by means of a rope, can be oscillated the same as on a horse-drawn harrow.

Built Strong

Any implement to be used behind a tractor must be built to stand hard usage. This fact is given careful consideration in the Rock Island No. 37. It is built comparatively light in weight, but is so constructed that it meets every requirement and withstands heavy tractor work.

The front frame is angle steel securely riveted, while the frame for the rear harrow is

built of angle and flat high carbon stock in a triangular shape—the strongest possible construction. Yet to give it still further strength, the rear frame is cross-braced with heavy steel braces. These also form supports for the connections of the rear gangs.

The entire harrow is built of steel, except the boxings, spools and a few connecting castings.

Plenty of Clearance

The No. 37 tractor disc has ample clearance under both harrows—it saves time and lessens the draft. *You do not have to stop to pull trash and weeds from under the frame.* This also means lighter draft, for you will not be pulling excess weight.

Both sections have exceptionally high frames.

Gangs Can Be Used Independently

If for any reason you want to use the front or rear harrow independently of the other, disconnect either one.

Three Sizes—6-ft., 7-ft., and 8-ft.

The No. 37 is made in three sizes—6-ft., 7-ft. and 8-ft. cut. Ordinarily the 6-ft. cut is recommended for tractors having 5 to 6 H.P. on draw-bar; 7-ft. harrows for tractors having 6 to 8 H.P. on draw-bar, and the 8-ft. size for tractors with draw-bar pull of 8 H.P. and over. Varying soil conditions, however, do not make this a set rule.

Either 16 or 18-in. solid discs can be furnished.

Adjustable Hitch

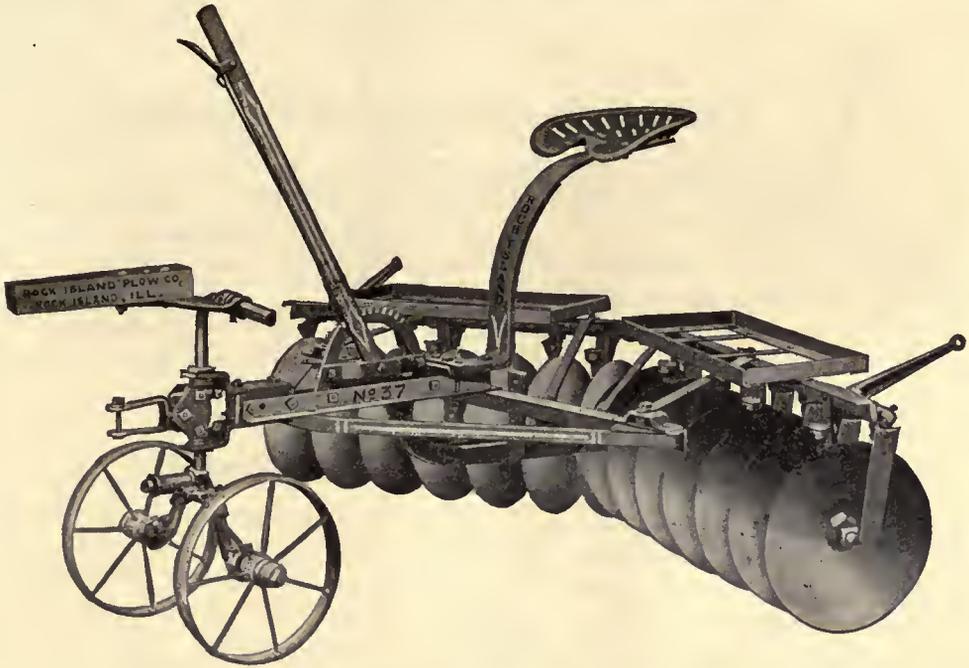
The hitch on the No. 37 is adjustable in length as well as in height, and *can be used with all makes of tractors*, being especially adapted for use behind the smaller type.

Weight Boxes

Weight boxes are furnished as regular equipment for front harrow and as extra equipment for rear harrow. On both harrows they are mounted directly over discs centrally on gang, insuring even penetration at all times.



ROCK ISLAND No. 37 TRACTOR DISC HARROW—Continued



Rock Island No. 37 Equipped as a Horse-Drawn Disc Harrow

Bearings

The boxings are equipped with the famous Rock Island maple-wood bearings boiled in oil. Each boxing has a hard oil cup, placed sufficiently high to keep it out of the dirt and prevent it from working off. The wood boxings take the end thrust of the discs.



Bearings Used on Rock Island Disc Harrows

Transport Trucks

Transport trucks are especially useful for pulling the harrow over roads or from one field to another. They raise the discs clear of the ground, saving both discs and road. They can be furnished at slight additional cost.

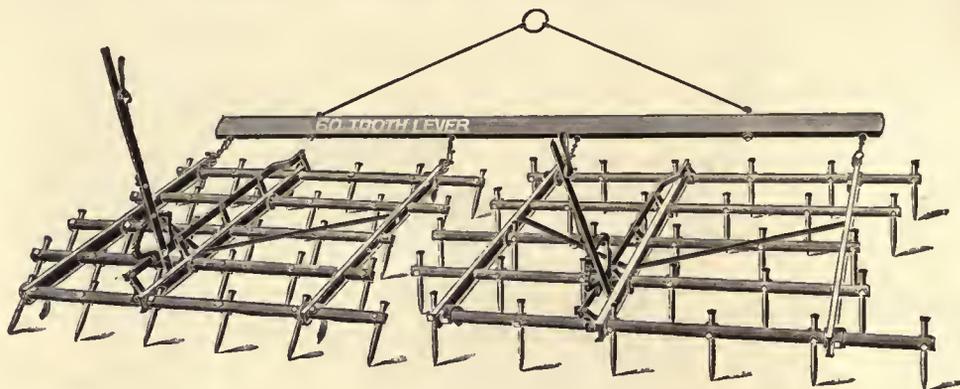
Easily Converted Into a Horse-Drawn Disc Harrow

The front section of the No. 37 harrow can be detached and converted into a horse-drawn harrow by ordering a seat attachment. When used as a horse-drawn harrow a fore-carriage must be used.

TRADE NUMBER	Number of Discs	Diameter of Disc Inches	Width of Cut Feet	Shipping Weight Pounds	Telegraph Code
24-16	24	16	6	814	Mangor
24-18	24	18	6	928	Mangora
28-16	28	16	7	906	Mangorat
28-18	28	18	7	937	Mangoz
32-16	32	16	8	966	Mangozab
32-18	32	18	8	996	Mangozate

Special equipment: Weight boxes—transport trucks, seat attachment, fore-carriage and tongue attachment.

Rock Island Drag Harrows



Harrow with 5 Bars

Rock Island U-Bar Steel Lever Harrow

ROCK ISLAND U-Bar Steel Lever Harrows have the strength, without unnecessary weight, to get right down to work and keep at it with minimum breakage or loss of teeth in the hardest kind of soil conditions.

One big reason for the satisfaction given by the Rock Island U-Bar Harrow is the method of attaching the teeth. The teeth are clamped and bolted securely to the U-Bar. They are headed, making it almost an impossibility to lose any teeth. These teeth may be lowered when they wear down or to give different depths of penetration, may be turned around to present a new



sharp-cutting edge or removed entirely for sharpening.

The teeth can be set forward for deeper work or set back to insure more steady and level running. The saw-tooth ratchet permits unusually close adjustment.

Steel runners are fitted to each corner of the section. When the levers are thrown to their extreme forward position for transporting, the teeth are lifted off the ground and the shoes carry the entire harrow. There are no bars below the harrow to gather trash or to clog when at work.

Five-bar sections have 25, 30 and 35 $\frac{9}{16}$ -inch square teeth to the section.

Specifications

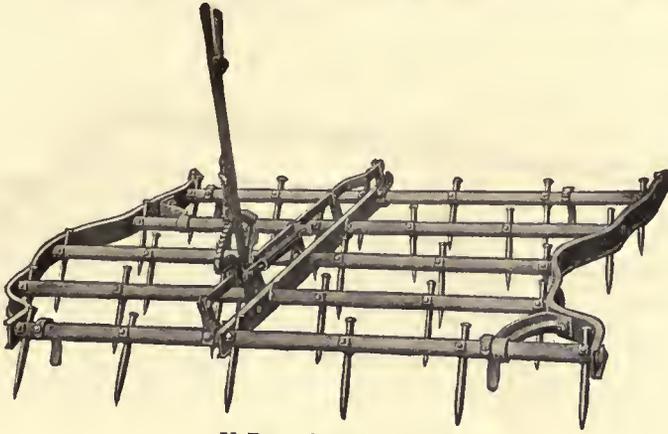
Open End.
Extra—Bent Levers for Orchard Work.

$\frac{9}{16}$ " Steel Teeth.
Complete with Eveners.

TRADE NUMBER	No. Sections	No. Teeth	Width of Cut Feet	No. Evener	Shipping Weight, Pounds	Telegraph Code
186	2	50	8	5	177	March
187	2	60	10	1	202	Marcid
188	2	70	11	17	230	Marl
189	3	75	12	6	276	Mare
190	3	90	15	2	315	Margin
191	3	105	17	18	367	Maroon
192	4	100	16	8	372	Mark
193	4	120	20	4	434	Market
194	4	140	22	20	495	Marry



Rock Island Drag Harrows



U-Bar, Guarded End

Rock Island Guarded-End, Steel Lever, U-Bar Harrow

EXTREME strength and a great degree of flexibility are distinguishing features of the Rock Island Guarded End, Steel Lever Harrow. The tooth bars extend through the 2 $\frac{3}{8}$ -inch channel steel end bars, and are securely fastened by the use of heavy steel washers and spring cotters. Flanges of the end bars extend out, protecting the tooth bars and preventing their catching on obstructions.

Heavy corner malleable braces hold the harrow square at all times without interfering with its flexibility.

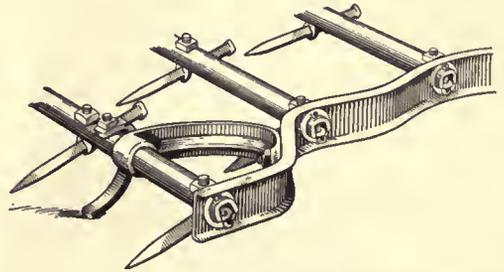
The levers are equipped with relief or cushion springs which permit teeth to spring back when striking an obstruction.

The Rock Island tooth clamp securely fas-

tens each tooth to tooth rail. The teeth cannot get out of position.

Three hitch hooks are used instead of only two distributing evenly throughout the harrow, adding to its strength and durability.

Pendant links make it impossible for the harrow to become uncoupled from the evener.



Note Strong Corner Brace and Runner

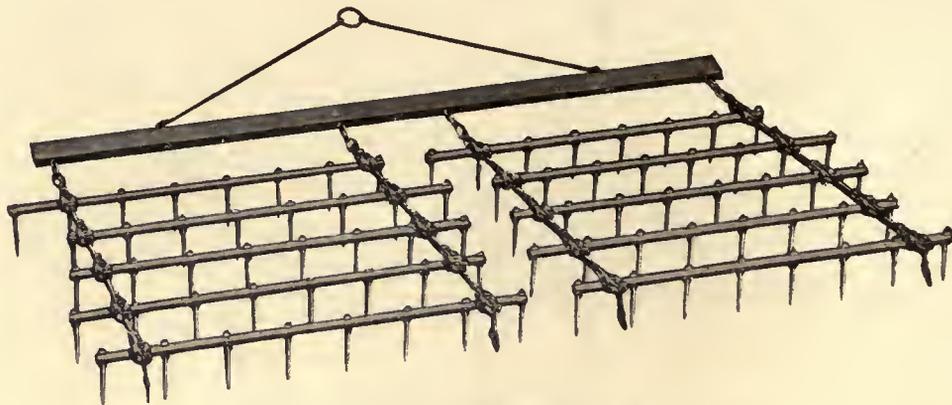
Specifications

TRADE NUMBER	No. Sections	No. Teeth	Width of Cut Feet	No. Evener	Shipping Weight, Pounds	Telegraph Code
171	2	50	8	36	195	Mest
172	2	60	10	37	220	Mesta
173	2	70	11	48	246	Mestad
174	3	75	12	39	304	Mestade
175	3	90	15	41	343	Mestadel
176	3	105	17	49	382	Mestader
177	4	100	16	42	432	Mestol
178	4	120	20	43	480	Meston
179	4	140	22	50	540	Mestop

Extra: Bent levers for orchard use.



Rock Island Drag Harrows



Made in 5-Bar only—40 Teeth to the Section

Rock Island Flexible Steel Harrow

THIS Rock Island Flexible Reversible Harrow is made entirely of steel and malleable iron.

It is furnished in 40-tooth sections only, with five pipe bars to each section. The teeth extend through the bar and are securely fastened by the forged shoulder below and the nut on top.

This harrow is very flexible and conforms to

unevenness of the ground. It harrows all the ground. By hitching to one end of the harrow, the teeth slant back, making an ideal leveling harrow. Hitching to the other end makes the teeth stand vertical. Ever-ready, self-locking hitch links are fastened to each end of sections. No wrenches are required to change from a leveling harrow to a vertical tooth harrow.



Teeth Slanting



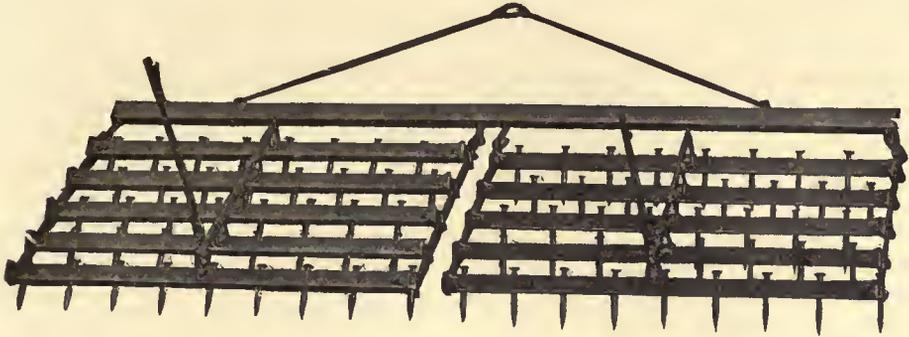
Teeth Straight

Pipe-Bar Flexible Harrows—5-Rail, Square Teeth

TRADE NUMBER	No. of Sections	No. of Teeth	Width of Cut Feet	No. of Evener	Shipping Weight Pounds	Telegraph Code
75	2	80	10	45	172	Lub
76	3	120	15	46	264	Lud
77	4	160	20	47	372	Lug
78	5	200	25	60	493	Lugab
79	6	240	30	61	593	Lugo



Rock Island Drag Harrows



Rock Island Wood Frame Lever Harrow

ROCK ISLAND Wood Frame Lever Harrows are strong. The tooth bars are fastened to frame bars by malleable cranks.

Throwing the lever to its extreme forward position raises the points of all the teeth clear of the ground, the end bars acting as runners,

preventing all rocking and jarring when moving from field to field.

The bars are made of seasoned oak and are riveted at each end tooth to prevent checking or splitting. Teeth are square pointed, and 41 to the section.

Specifications

Wood bar, 5-rail, square end

Complete with eveners

Square Steel Teeth

TRADE NUMBER	No. of Sections	No. of Teeth	Width of Cut Feet	No. of Evener	Shipping Weight Pounds	Telegraph Code
60	2	82	10	25½	219	Mingle
61	3	123	15	26½	340	Minion
62	4	164	20	27½	486	Minor



Rock Island Eveners for Drag Harrows

ROCK ISLAND EVENERS are well and carefully made of the best materials. The combinations have been worked out with the greatest care, particular attention being given to convenience and economy.

Necessary bolts, properly spaced, are in all eveners, to accommodate the links by which the eveners are attached to the various harrow sections.

A 4-section evener is converted into a 3-section evener and two eveners for 2-section harrows by separating the members.

When harrows are used with two teams—that is, when an evener is hitched to on both ends, or, in other words, a two-point hitch—

the teams should be kept even for the best work.

This applies to all harrows of all kinds with which a two-point hitch is used.

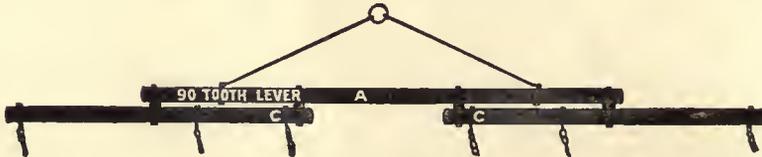
The possible combinations are as follows:

A No. 4 Evener is for a 4-section, 120-tooth harrow. By detaching the member marked B, it becomes a No. 3 Evener, for a 3-section, 90-tooth harrow. This leaves the two members marked A, each of which forms a No. 1 Evener, for a 2-section, 60-tooth harrow. No. 2 Evener shows the regular combination for a 3-section harrow. The member of this marked A can be used as an evener for a 2-section harrow.

All the Rock Island Harrow Eveners afford similar combinations.



No. 1



No. 2



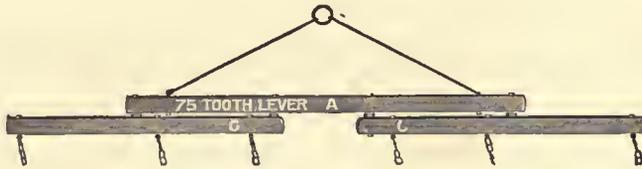
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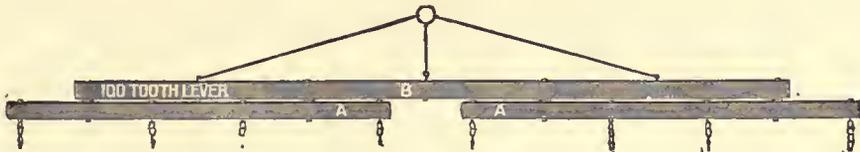
No. 5



ROCK ISLAND EVENERS FOR DRAG HARROWS—Continued



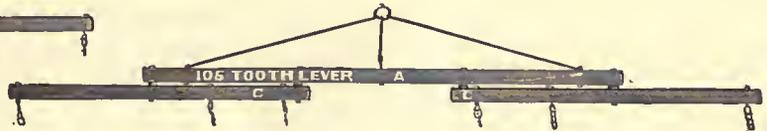
No. 6



No. 8



No. 17



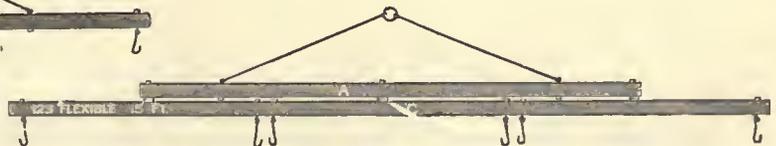
No. 18



No. 20



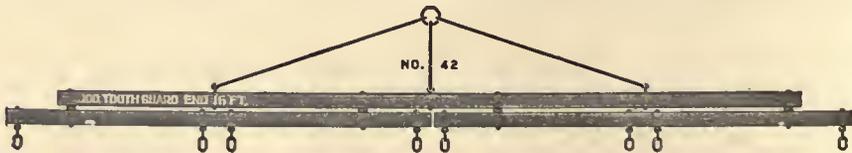
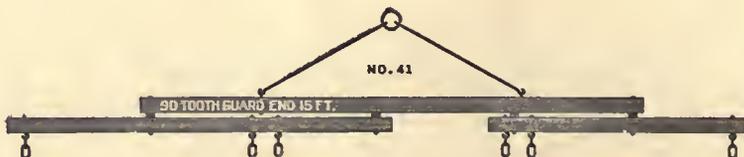
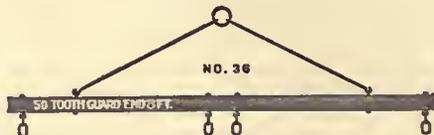
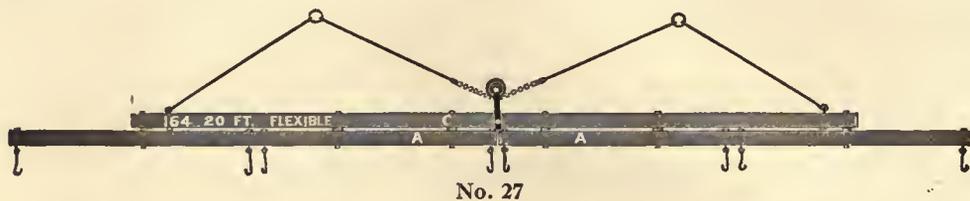
No. 25½



No. 26½

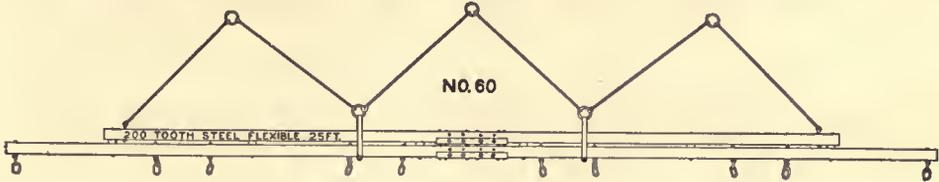
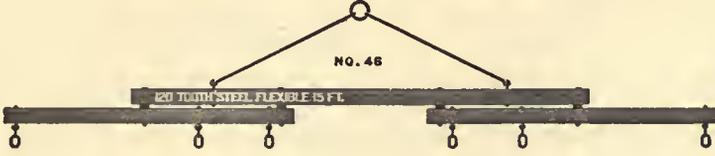
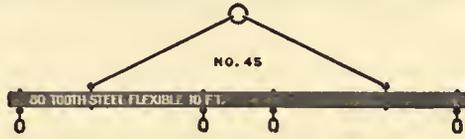


ROCK ISLAND EVENERS FOR DRAG HARROWS—Continued

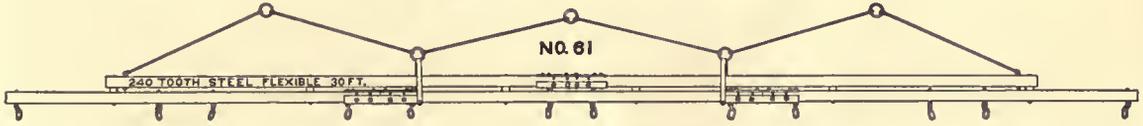




ROCK ISLAND EVENERS FOR DRAG HARROWS—Continued



No. 60—200 Tooth Steel Flexible, 25 ft.



No. 61—240 Tooth Steel Flexible, 30 ft.

Straight, One-Piece

Number	Harrow Sections Number	DESCRIPTION OF HARROWS ON WHICH USED	Width Feet	Shipping Weight Pounds	Telegraph Code
1	2	60-tooth, U Bar.....	10	21	Miss
5	2	50-tooth, U Bar.....	8	19	Miter
17	2	70-tooth, U Bar.....	11	24	Mode
25½	2	82-tooth, Wood Lever.....	10	23	Moan
45	2	80-tooth, Steel, Flexible.....	10	23	Model

Combination, Three-Piece

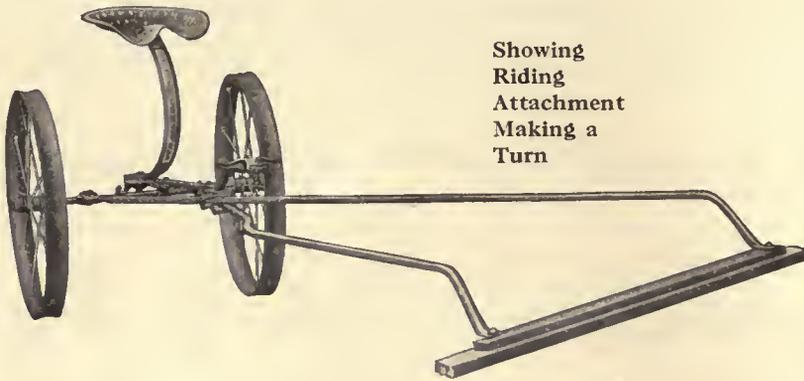
2	3	90-tooth, U Bar.....	15	42	Molar
4	4	120-tooth, U Bar.....	20	68	Mold
6	3	75-tooth, U Bar.....	12	31	Molest
8	4	100-tooth, U Bar.....	16	49	Money
18	3	105-tooth, U Bar.....	17	56	Moon
20	4	140-tooth, U Bar.....	22	78	Moor
28½	3	123-tooth, Wood Lever.....	15	52	Monk
27½	4	164-tooth, Wood Lever.....	20	67	Monkey
46	3	120-tooth, Steel, Flexible.....	15	45	Mob
47	4	160-tooth, Steel, Flexible.....	20	70	Mock
60	5	200-tooth, Steel, Flexible.....	25	.....	Mocker
61	6	240-tooth, Steel, Flexible.....	30	.....	Mockery

Eveners for Guarded End Steel Lever Harrows

36	2	50-tooth, 1-piece.....	8	23	Morse
37	2	60-tooth, 1-piece.....	10	26	Mort
39	3	75-tooth, 3-piece.....	12	42	Moss
41	3	90-tooth, 3-piece.....	15	43	Moth
42	4	100-tooth, 3-piece.....	16	49	Motion
43	4	120-tooth, 3-piece.....	20	68	Motor
48	2	70-tooth, 3-piece.....	11	.....	Motorb
49	3	105-tooth, 3-piece.....	17	.....	Motorbus
50	4	140-tooth, 3-piece.....	22	.....	Motorby



Rock Island Harrow Riding Attachment



Showing
Riding
Attachment
Making a
Turn

Rock Island Harrow Riding Attachment No. 2

THE Rock Island No. 2 Harrow Riding Attachment can be used with practically any size drag harrow. The method of attaching is such that the operation of the levers is not interfered with in any way.

The driver always faces the horses, no matter which way the wheels may be angled. The moving back and forth of the axle does not affect the seat. The platform for the seat is composed of two circular plates. The lower plate is bolted solidly to the axle. The seat and foot rest are both fastened to the upper plate, which can turn on the lower plate like

the fifth wheel of a wagon. An automatic locking device prevents responding to slight vibration of the harrow while the cart is being drawn straight ahead, but permits the wheels to angle either way while making a turn or when either of the wheels strikes an obstruction, without disturbing the driver at all.

Wheels are 32 inches high and are set 30 inches apart, with an adjustment permitting an expansion of four inches more. They have 3-inch concave tires, staggered spokes, and dust-proof, removable boxes. Spring seat and foot rest are both adjustable.

Specifications

32-inch wheels.
Dust-proof removable boxes.

High carbon U-bar steel draw-bars.
Adjustable spring seat.

DESCRIPTION	Shipping Weight Pounds	Telegraph Code
No. 2 Harrow Riding Attachment	110	Mound