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No. 27
CATALOG OF

Clark
"CUTAWAY"

Farm Implements



"Since 1813"

The Cutaway Harrow Company
Higganum, Connecticut



HALF A CENTURY has passed since George M. Clark made the first Cutaway Harrow. He aimed from the beginning to give the farmer tools which will produce the best results and with the least cost to the farmer in labor and time. Mr. Clark built into his implements those practical ideas and that sturdy quality which discriminating farmers appreciate. The standards of usefulness and quality which he originated are being consistently maintained. CLARK "CUTAWAY" Implements are made to give maximum service and long wear.

It will be remembered that George M. Clark originated the cutout type of disk, the oil-soaked hardwood bearing, the rigid main frame and a great many of the other important improvements in disk tillage implements; in fact, he was a pioneer in this field of endeavor. He also perfected the process of forging the edges of the disks, which is an exclusive CLARK "CUTAWAY" feature.

The modern plant of The Cutaway Harrow Company is devoted exclusively to one line of implements, in which we are specialists, with all the advantages to the user which that implies. Our many years of practical experience is at your disposal; feel free to ask our assistance in selecting the proper tillage implements for your requirements.

The Cutaway Harrow Company, :: Higganum, Connecticut, U. S. A.

Forged - Edge Disks Cutout or Solid

buyers of disk tools today demand CLARK "CUTAWAY" machines—and this is true whether they want cutout or solid disks. CLARK "CUTAWAY" disks are of tougher and harder steel; they do not chip, bend and crack as do many others. The picture at the right shows one of the power hammers which forges the edges of disks in the CUTAWAY factory.

The value of forging sharp any cutting edge is too well known to need argument. The reason for the better advantage given by forging is interesting, however, and is made very clear below by Professor G. B. Upton of Cornell University. Every disk that goes on a CLARK "CUTAWAY" implement—cutout or solid, large or small—is made of the same high grade cutlery steel and forged sharp. Our trade name, CUTAWAY, was derived from the fact that we were the first to make cutout (as well as solid) disks and CUTAWAY disks have always been known to be highest in quality.

The CLARK "CUTAWAY" disk implements are equipped with cutout disks unless solid are specified. There is no difference in price and both kinds of disks are of the same cutlery steel and are given the same forged treatment. We wish only to give the farmer what will serve him best and whether he desires cutout or solid disks it is important that he should get CLARK "CUTAWAY" disks. CUTAWAY disks are not "ready-made" disks, but are made in the CUTAWAY factory from special steel. Please read page 24.

WHY A FORGED EDGE

By G. B. UPTON

Assistant Professor Experimental Engineering, Cornell University

The Cutaway Harrow Company submitted to me two specimens of steel from the edges of the disks of a harrow. One specimen had the edge of the disk sharpened by grinding down; the other had been sharpened by forging down. The steel used was the same for both; the only difference lay in the method of sharpening.

The specimens were polished, etched with acid, and photographed under a microscope. In the photomicrographs the black areas are "pearlite"; and the white "ferrite." The steel consists of islands of ferrite in a ground mass of pearlite. Ferrite is soft and tough; pearlite is harder and stronger. Both are needed in the disk, for ferrite alone would make too soft a disk, and pearlite alone would be too hard and brittle. The relative amounts of ferrite and pearlite are the same in the two specimens, as should be, since the carbon content of the two is the same.

The difference between the two specimens is in the size of the crystal groups, or grain of the steels. The forged steel has over twice as fine a grain as the ground specimen. Forging (hot working) does more to a steel than merely change its shape; it breaks up the grain of the steel, causing a more uniform distribution and a decrease in the size of the different kinds of crystals which build up the internal structure of the steel.

Now, the forging of the edge of the CUTAWAY harrow disk refines the grain and makes a stronger metal—one better able to resist wear or bending of the edge than if the edge were formed by grinding. Grinding would not affect the nature of the metal of the edge; would leave it the same as the inner parts of the disk. Forging makes the steel at the edge better and stronger, therefore, than grinding would do. Judging from the relative grain size of the two pieces the forged edge should be about 20% stronger and stiffer than the ground edge and should outlast it in service.



The above photomicrograph shows the internal structure of disk steel not forged sharp.



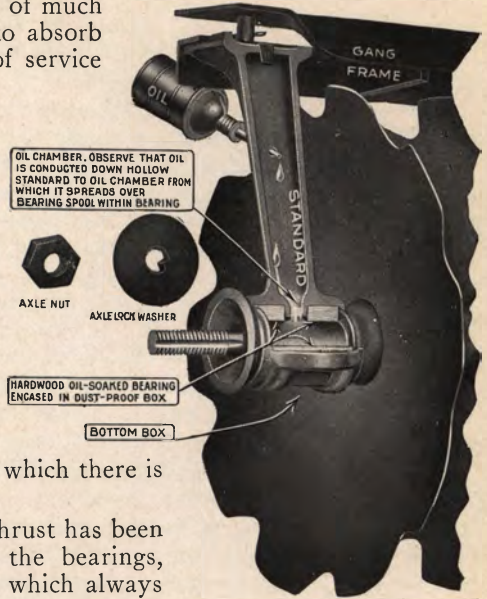
This shows the internal structure of a CLARK "CUTAWAY" forged-edge disk, illustrating what our forging process does. Note the contrast between this and the upper photomicrograph. Read Prof. Upton's article.

ILLUSTRATIONS ON THIS PAGE show the CLARK "CUTAWAY" dust-proof, oil-soaked hardwood bearing which has proven beyond all doubt to give longer service, to cause less friction, and to be cheaper to replace (when necessary) than any other bearing. In making this bearing as nearly dust-proof as a disk bearing can be made, we eliminate the cause of much trouble. When the dirt cannot get into the bearing to absorb the oil, to crust and harden, satisfaction and length of service from the bearing greatly increase.

Note in the illustration at the right that the oil passes down through the hollow standard which tapers at the bottom, forming an oil chamber and carrying the oil down on to the center of the bearing spool inside of the wood bearing. The entire bearing is given a uniform supply of oil and perfect lubrication is certain. In determining the relative values of hard grease and oil as lubricants for disk harrow bearings we made many experiments with a variety of styles of bearings, each lubricated by the two methods. Results proved conclusively that while grease would harden and dry, and at times even crust and obstruct the passage of a new supply, oil flows freely over the entire bearing, making a thin film from which there is practically no friction.

On all CLARK "CUTAWAY" Disk Harrows the end thrust has been overcome and taken up by special construction of the bearings, slanted standards, etc. This avoids the use of bumpers which always give trouble, wearing and riding over each other. This scientific construction permits the valuable reversible feature on the Single Action. The wood bearing is reversible, giving double wear in taking up end thrust.

Dust Proof Bearing and Other Features

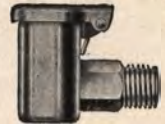


Nut Locks



Every nut on the CLARK "CUTAWAY" Harrow has either a spring lock washer or a "Palnut". At the left is illustrated a "Palnut" which is a patented device, the use of which is explained on a special direction card sent with every machine. Keeping bolts and nuts tight prolongs the life of any machine and no other disk harrow is so thoroughly safe-guarded in this respect. The axle lock washer and nut have been improved recently.

At the right is shown our new spring cap oil cup which makes oiling of the bearings quick and easy.



Bell Spacing Spool



The purpose of a spacing spool is to separate the disks between which there is no bearing, and to reinforce them. The new CLARK "CUTAWAY" Bell Spacing Spool is perfectly made. The ends swell in a bell shape from the spindle, giving greater strength and making a large surface with which to support the disks. One end is larger than the other—this feature allows the disks to spring between the larger end of the spool on one side of the disk and the smaller end of the spool on the other side. The spool thus adds life to the disk.

Light Draft

CLARK "CUTAWAY" Harrows are well known for their light draft in proportion to the high grade work they do. Sharp disks, good bearings and correctly designed hitches all help make the draft light. Furthermore, the type of construction embodies use of the "over-draft" principle so that the disks are pulled into the ground making it unnecessary to carry excessive weight in order to secure penetration. High grade materials give ample strength without cumbersome and unnecessary weight.

Rigid Double Action Tractor Disk Harrows

exclusive CLARK "CUTAWAY" feature. Be sure to read on page 9 the description of the rigid main frame principle which tells you why it makes these tractor disk harrows more efficient than ordinary tandem harrows.

Strength and Simplicity.

Notice again the top view of the rigid main frame on page 9 and observe how the frame is made of angle steel strongly riveted together and stoutly braced with other angles. Draft rods extending from the main frame to each axle add strength to the already rugged construction. With all the other good features, CLARK "CUTAWAY" Double Action Tractor Harrows are simple in construction; in fact, the simple design and lack of complicated parts make for efficiency and long wear.

Two Types. The "X" Series Double Action Tractor Harrows, made in six sizes, are suitable for most tractors and for all average conditions. The levers are placed where they can be easily reached by the operator from the tractor seat. Each lever controls a set of front and rear gangs. This is an important feature, especially in orchard work, where short turns are necessary at ends of rows. Shifting of gangs to any position is easily and quickly done while the tractor is in motion. If on account of a muddy spot it is necessary to straighten the gangs, they can be set again without stopping and backing the tractor.

The "X" Series rigid frame tractor harrows are now made with channel steel pole which is fastened underneath the main frame making the frame much more flexible. The improved steel hitch shown in the illustration is made so that it will swing from side to side enough to permit turning the harrow as short as it is possible to cramp any ordinary tractor, and the harrow will follow perfectly. At the same time the hitch is so made that the harrow can be backed by the tractor and when pulling straight ahead the line of draft is absolutely straight. The hitch is adjustable to any tractor.

Some prefer screw control in place of levers, especially for orchard work. An excellent crank and screw control can be furnished in place of the levers and at the same price.

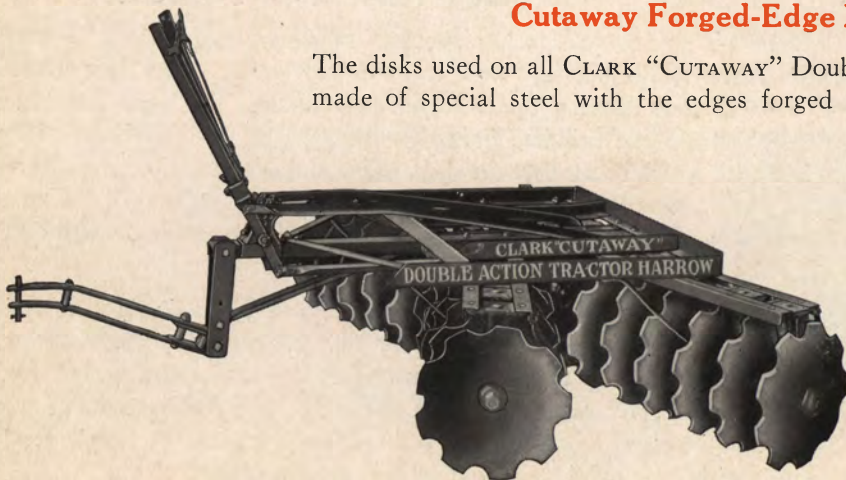
The "B" Series Double Action Tractor Harrows are built much heavier than any other tractor disk harrow as you will note by comparing the weights. Heavier materials are used throughout. The "B" Series, or Heavy Service Type Harrows are intended for very large tractors or for unusually difficult working conditions. They are constructed along the same lines as the "X" Series except that the levers are placed in the center of the frame and screw control cannot be furnished. The new Flexible Double Action Tractor Harrow is shown on page 6.



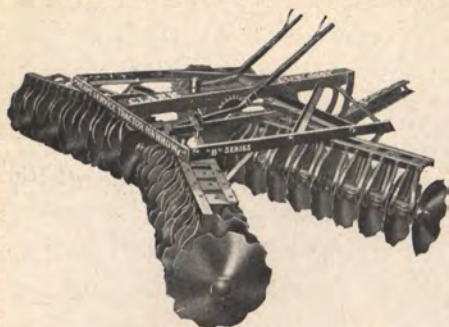
Equipped with Screw Control

Cutaway Forged-Edge Disks

The disks used on all CLARK "CUTAWAY" Double Action Harrows are made of special steel with the edges forged sharp as described on page 2. While we recommend cutout disks for easy penetration and more thorough pulverizing, solid disks will be substituted at the same price.



"X" Series
Double Action
Tractor Harrow



"B" Series or Heavy Service Type

Rigid Double Action Tractor Disk Harrows

Although the illustrations show the Double Action Tractor Harrows equipped with cutout disks all around, we will furnish solid disks in front and cutout disks rear, or vice versa, or all solid disks without any additional charge.

The illustrations of both the "X" and "B" Series Double Action Tractor Harrows show the machines equipped with center disk attachment which is regular equipment on most sizes. Center disk is not regularly furnished on the X-4, 5 and 6 sizes because the gangs being shorter on these sizes, we do not

consider that enough space is left in the center when the gangs are at full angle to require a center disk. However, the center disk attachment can be furnished on these three sizes at slight extra cost or a deduction can be made if center disk attachment is left off the sizes on which it is regularly furnished.

When making your selection if you are not sure which size is best for your requirements, tell us what your working conditions are and the make and size of tractor used and we shall be glad to give you our best recommendations.

"X" Series D. A. Tractor Harrows

Size	No. of Disks	Diam. of Disks	Width of Cut	Weight
*X-4	16	18"	4 ½'	585
X-5	20	18"	5 ½'	675
A-6	24	16"	6 ½'	785
X-6	24	18"	6 ½'	835
A-7	29	16"	7 ½'	910
†X-7	29	18"	7 ½'	965
X-8	33	18"	8 ½'	1085
X-9	37	18"	10 ½'	1505

*"X" means that the disks are 18 inches in diameter; 4 means 4 disks to each gang, etc.

† Machines having 7 or more disks on each gang are equipped with center disk.

"B" Series D. A. Tractor Harrows (Heavy Service Type)

Size	No. of Disks	Diam. of Disks	Width of Cut	Weight
*B-6	25	20"	7'	1475
B-7	29	20"	8'	1665
B-9	37	20"	10 ½'	2170
B-11	45	20"	12 ½'	2575

*"B" means the disks are 20 inches in diameter; 6 means 6 disks to each gang, etc.

All of the above machines are equipped with center disk.



Coldstream Ranch,
Vernon, B. C., Canada.

The Cutaway Harrow Company,

Dear Sirs:

We have your letter of the 21st ult. with enclosures and have also received catalogue.

We expect to shortly place an order for a Bush and Bog harrow and also for some repairs for our other harrows, which we consider to be about the most useful implements that we have. The light tractor harrow, which we use with a Fordson is particularly efficient.

COLDSTREAM RANCH.

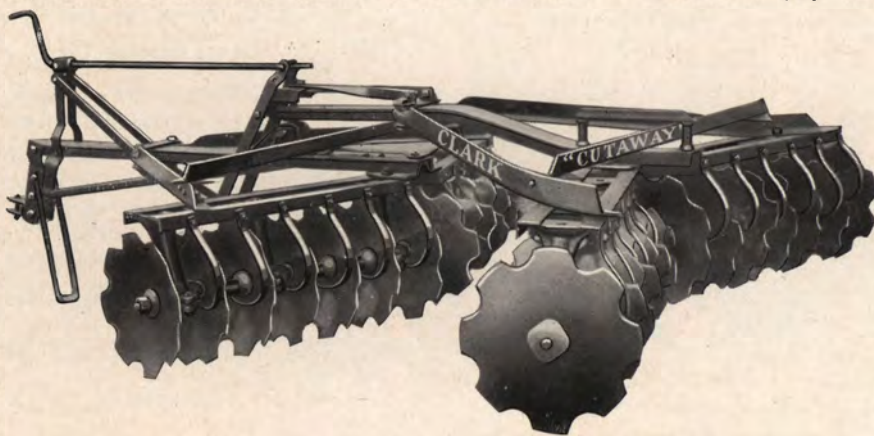
Flexible Double Action Tractor Disk Harrows

WHILE the CLARK "CUTAWAY" Rigid Double Action Tractor Harrow has obvious advantages, there are many who prefer a very flexible harrow which also has certain advantages on some conditions.

The CLARK "CUTAWAY" Flexible Double Action Tractor Harrow has the same type of gang construction as our other tractor harrows. The frame permits extreme flexibility but at the same time the harrow is very efficient and does high class work. The frame construction makes the rear gangs do their full share of the work.

The frame is made of heavy channel and angle steel and is very strong throughout. All four gangs are angled by crank and screw control. The rear section may be quickly removed and the front section of the harrow used alone if desired. The disks are the most important part of a harrow and no other flexible tractor harrow is equipped with genuine forged-edge disks. Solid or cutout disks furnished at the same price. This harrow has all the special features found on other CLARK "CUTAWAY" Harrows as described on pages 2 and 3.

Size	No. of Disks	Diam. of Disks	Width of Cut	Weight
A-6	24	16"	6' 6"	765
A-7	28	16"	7' 6"	855
X-6	24	18"	6' 6"	850
X-7	28	18"	7' 6"	950



Special Harrow For Citrus Groves

At the right is a photograph of the CLARK "CUTAWAY" Tractor Grove Disk Harrow doing perfect work in a Florida orange grove. This harrow has the same type of frame construction as the Flexible Double Action Tractor Harrow described above but is especially designed for Florida citrus grove conditions. The disks are fourteen inches in diameter, spaced five inches apart. Depth bands regulate the depth of cut to about three inches. There are metal fenders over the outer ends of the gangs. The harrow is made in three sizes, cutting 8 ft., 9½ ft. and 12 ft. respectively. Write for special folder giving full details.



Transport Trucks

FREQUENTLY it is desired to move a disk implement from one place to another where it is not sufficient to set the gangs straight and let it run on the disks. For such cases (including paved roads, etc.) The CLARK "CUTAWAY" Transport Trucks are designed.

The three types of Transport Trucks described below are the only trucks which can be guaranteed for use with CLARK "CUTAWAY" Implements. They are in every respect practical, simple, strong and will stand hard usage. In ordering Transport Trucks for any CLARK "CUTAWAY" implement be sure to tell style and size of machine for which they are intended.

The illustration at the right shows the Transport Trucks for the Double Action Harrow. While built primarily for the horse-drawn machines they can also be furnished for the "X" Series Double Action Tractor Harrows on special order. The end of the handle is hooked under the rear of one forward gang frame. The handle is then pressed down and attached to the rear gang frame by an adjustable hook. When both trucks are attached the harrow is raised off the ground. To secure balance the jointed pole is locked in a rigid position. On Double Action Harrows-Extension the Transport Trucks can be used only when the gangs are in the extended position.

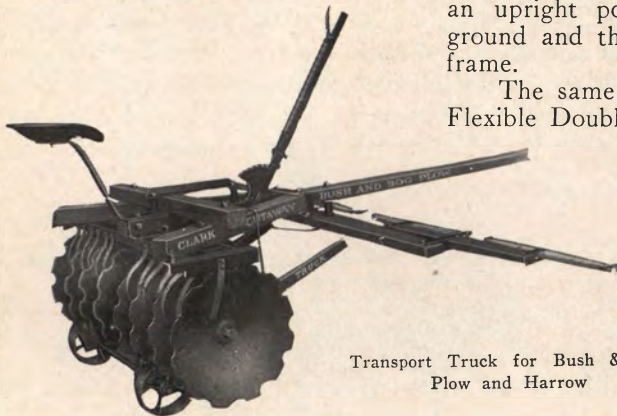
For the Bush & Bog Plow and Harrow a Transport Truck of special design has been constructed. It is shown below attached to a horse-drawn machine but the same truck also fits the tractor machine. Although this implement is quite heavy the construction of the truck allows it to be attached easily by one man. The handles are slid under the axles of the gangs and are long enough to give plenty of leverage to raise the machine easily on to the truck.



Transport Truck for Double Action Harrow

Transport Trucks for CLARK "CUTAWAY" Single Action Harrows are shown below. The lower hook is placed under the axle and the truck then brought into an upright position. This raises the harrow off the ground and the movable hook is caught over the gang frame.

The same type of Transport Truck is used on our Flexible Double Action Tractor Harrow.



Transport Truck for Bush & Bog Plow and Harrow

Mandan, N. D.

Clark's Cutaway Harrow Co.,

Gentlemen:

In the spring of 1895 I bought one of your six foot harrows which I have used constantly ever since but now the ball against which the shafts work in the center is completely flattened and worn out and as these harrows are no longer kept in our neighborhood I would like to know if I can get a ball from you.

DAN TROMBULL

Lone Tree, Iowa, R. No. 2
Cutaway Harrow Co.

Would like to have your catalog and price list on your 20 blade round or full blade disc harrow if you manufacture them. I used a cutaway 16 blade Clark for 19 years without any expense outside of wood boxings. What would the freight be to Davenport, Ia. We are 50 miles west of Davenport. Thanking you.

J. W. HENIK



Transport Truck for Single Action Harrow

Double Action Disk Harrows

THE FARMER who realizes the value of thorough tillage and wants a harrow that saves time, saves horses and gives long service, will appreciate the superiority

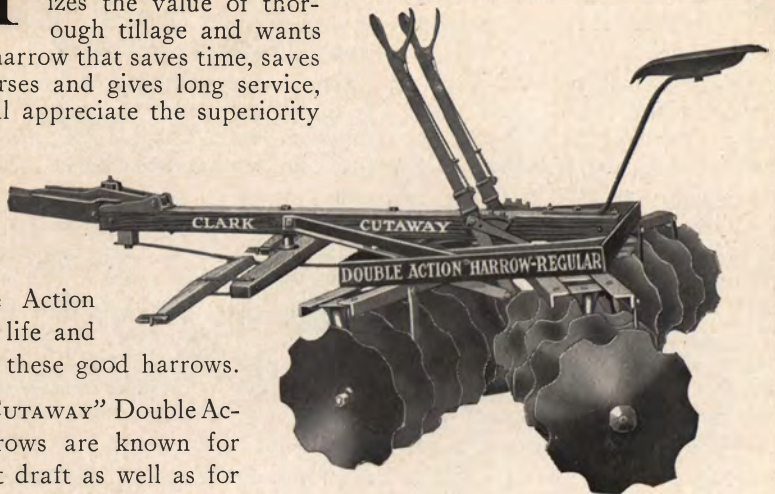
of the CLARK "CUTAWAY" Double Action Harrow. Letters from farmers who have received twenty years' service, and more, from their CLARK "CUTAWAY" Double Action Harrows, testify to the long life and satisfactory results given by these good harrows.

More Work— Less Power. CLARK "CUTAWAY" Double Action Harrows are known for their light draft as well as for

the amount and quality of work they do. The description of the rigid main frame on page 9 tells you why this type of construction makes the harrow so much better than an ordinary tandem or trailing type harrow. It is the rigid main frame that forces the rear disks to cut exactly half way between the front disks and also makes the front and rear disks cut the same depth and do the same amount of work.

No Tongue Truck Required. The rigid main frame makes the Double Action Harrow self-supporting, the four gangs acting like the four wheels of a wagon. This makes the use of a tongue truck absolutely unnecessary, resulting in a closer hitch with consequent lighter draft as well as a saving of several dollars in the price of a tongue truck.

The levers are convenient to the driver's seat which is placed at the rear where it should be. Each lever controls a set of front and rear gangs. Cutout disks are regular equipment but we can furnish solid disks all around or solid disks in front and cutout disks rear as shown in the small illustration. Both types of disks are of the same quality with forged edges and there is no difference in the price. Transport Trucks for the Double Action Harrow are described on page 7.



Double Action Harrow equipped with solid disks front and cutout disks rear

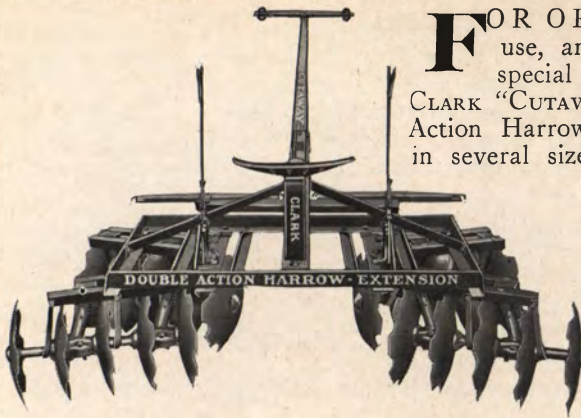
Clark "Cutaway" Double Action Harrow—Regular

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Weight
*A-3	12	16"	3' 6"	1 or 2-h	380
A-4	16	16"	4' 6"	2 or 3-h	440
A-5	20	16"	5' 6"	2, 3 or 4-h	530
A-6	24	16"	6' 6"	3 or 4-h	615
†A-7	29	16"	7' 6"	4-h	850
A-8	33	16"	8' 6"	4 or 6-h	925
X-4	16	18"	4' 6"	2 or 3-h	535
X-5	20	18"	5' 6"	2, 3 or 4-h	630
X-6	24	18"	6' 6"	3 or 4-h	800
X-7	29	18"	7' 6"	4-h	945
X-8	33	18"	8' 6"	4 or 6-h	1025
X-9	37	18"	10' 6"	4 or 6-h	1375

* "A" means the disks are 16 inches in diameter; "X", 18; 3 means 3 disks to each gang, etc.

† Machines having 7 or more disks on each gang are equipped with center disk.

Double Action Disk Harrows--Extension



FOR ORCHARD use, and for other special work, the CLARK "CUTAWAY" Double Action Harrow is made in several sizes with extension head.

As shown in the illustration at the left, this harrow is built exactly the same as the Double Action Harrow-Regular with the exception of the rigid main frame, which is made wider to permit the gangs being spread apart in the center.

The Double Action Harrow-Extension is just as valuable for regular field work as the regular head machine because the gangs can be placed close together in the center of

the frame. The specifications give the width of cut of the Double Action Harrow-Extension with the gangs extended. When the gangs are placed together the width of cut is the same as on the corresponding size harrows as given in the specifications on page 8.

Clark "Cutaway" Double Action Harrow—Extension

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Weight
*A-4	16	16"	6'	2 or 3-h	460
A-5	20	16"	7'	2, 3 or 4-h	565
A-6	24	16"	8' 6"	3 or 4-h	660
X-4	16	18"	6'	2 or 3-h	555
X-5	20	18"	7'	2, 3 or 4-h	675
X-6	24	18"	8' 6"	3 or 4-h	835

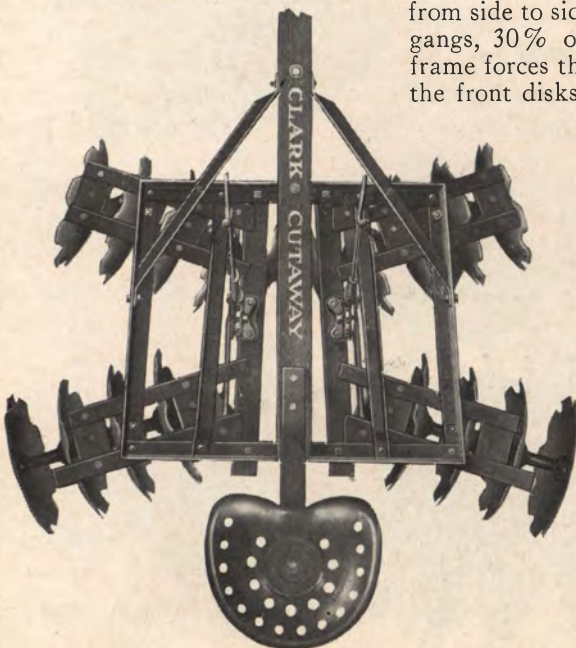
* "A" means the disks are 16 inches in diameter; "X", 18; 3 means 3 disks to each gang, etc.

Stony Creek Mills, Pa.
Clark's Cutaway Harrow Co.,
Dear Sir:

Will you please send me your catalogue and price list of your Harrows? I had one of your Harrows when I lived in Virginia and came here a few years ago and could not find any of your Harrows for sale here, got another make, but it is not near as good as yours and don't do good work. Please send to address below and oblige
J. H. DONAGHY.

Rigid Main Frame.

The great efficiency of CLARK "CUTAWAY" Double Action Harrows for horses and for tractors is due more to the Rigid Main Frame than to any other one feature. A study of the top view of this Double Action Harrow will quickly demonstrate why. The four gangs are attached to one rigid main frame. This holds the gangs at all times in proper relation to one another. The purpose of a double harrow is to cut the ground and throw it first in one direction and then in the other, leaving it level. This can be secured only when the gangs are held by the rigid frame so that the rear disks cannot slue from side to side. Where the rear gangs merely trail the front gangs, 30% of the value of the harrow is lost. The rigid frame forces the rear disks to cut just midway between where the front disks have cut and also makes the front disks and the rear disks cut to the same depth. Every particle of soil to the depth to which the disks run is thoroughly stirred. Another advantage is in the compactness which this gives, the consequent light draft, the uniform distribution of weight and the excessive strength.



Remington, Ind.

The Cutaway Harrow Co.,
Dear Sir:

Received your catalog. What size disc would you recommend for a Fordson Tractor—what I mean is a double action—and give me your best price on this said disc and your number in the catalog such as X7 or so on light or heavy service Tractor Harrow. My father bought one of your 7 foot discs 25 years ago and is still in use, it was a little wooden frame disc and always did good work and light draft. Our country is a level black soil.

ED. FREY.

Single Action Disk Harrows

ALTHOUGH the single type horse-drawn disk harrow is a common farm tool, practical farmers use as much care and judgment in choosing one of these implements as they do in selecting a high priced, complicated piece of machinery, for it pays them to do so. The CLARK "CUTAWAY" Single Action Harrow will appeal to the practical farmer who wants a harrow that will give him the greatest amount of work with the least draft and with the least cost.

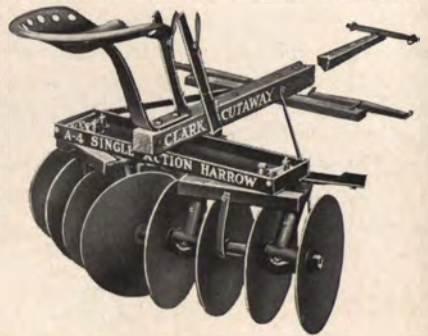
A Balanced Harrow. Note in the illustration that the head is built directly on top of the gangs, with the tongue, seat, braces and levers all fastened to it, thereby making the disks carry the entire weight of the machine. This construction gives such perfect balance that there is practically no weight on the horses' necks, and makes the use of a tongue truck a matter of choice. Without the tongue truck the hitch is placed back close to the machine and the draft is the very minimum. The illustration at the top of page 11 shows the Single Action Harrow equipped with the CLARK "CUTAWAY" Tongue Truck, details of which are given on page 13.

There is no heavy truss construction forward of the gangs which would tip the harrow down in front thereby increasing the draft. Instead of power being wasted in lifting the harrow out of the ground, it is all utilized in pulling the harrow in a horizontal direction and allows the machine to "take" the ground. The weight of the driver and most of the entire weight of the machine is carried by the disks themselves, increasing the efficiency of the harrow by the weight forcing the disks into the ground.

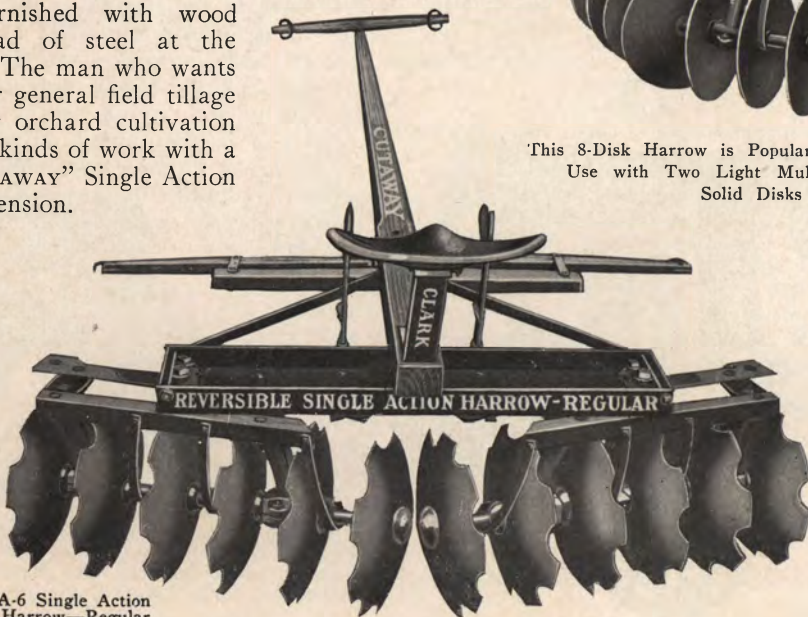
Reversible Gangs. The gangs on the CLARK "CUTAWAY" Single Action Harrow can be swung end for end, so that the soil may be thrown either out or in. To reverse, it is only necessary to pull the cotter pins that hold the lever links, drop the links, swing the gangs around and reattach links. This reversible feature is especially valuable in orchard work for it enables the fruit grower to throw the soil towards his trees or pull it away. On account of the way the harrow is built the reversing feature does not increase the cost nor does it necessitate buying a special harrow. The picture of the extension head harrow at the bottom of page 11 shows it with the gangs reversed.

Economical to Buy and to Use. The fact that a tongue truck is not absolutely necessary on a CLARK "CUTAWAY" Single Action

Harrow means a saving of several dollars as well as giving the advantages described above. The steel head forms a weight box so weight can be added without the necessity of spending more money for weight pans as extras. Harrows can be furnished with wood heads instead of steel at the same price. The man who wants a harrow for general field tillage and also for orchard cultivation can do both kinds of work with a CLARK "CUTAWAY" Single Action Harrow-Extension.



This 8-Disk Harrow is Popular in the South for Use with Two Light Mules. Note the Solid Disks



A-6 Single Action Harrow—Regular



Single Action Harrow equipped with Tongue Truck

CLARK "CUTAWAY" Single Action Harrows are equipped with forged-edge disks of cutlery steel; dust-proof, oil-soaked hardwood bearings; two levers for angling the gangs; clodbreakers are placed between disks where there is no standard. While cutout disks are regular equipment we will substitute solid disks, if desired, at the same price.

Single Action Disk Harrows

Clark "Cutaway" Single Action Harrow—Regular

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Weight
*A-4	8	16"	4'	1 or 2-h	255
A-5	10	16"	5'	2-h	290
A-6	12	16"	6'	2 or 3-h	315
A-7	14	16"	7'	3 or 4-h	445
A-8	16	16"	8'	4-h	505
X-4	8	18"	4'	1 or 2-h	295
X-5	10	18"	5'	2-h	345
X-6	12	18"	6'	2 or 3-h	400
X-7	14	18"	7'	3 or 4-h	485
X-8	16	18"	8'	4-h	545

* "A" means the disks are 16 inches in diameter; "X", 18; 4 means 4 disks to each gang, etc.

Cocoa, Fla., Box 332.

The Cutaway Harrow Co.

Gentlemen:

I am a Grove Contractor using both double and single of your machines.

I find them the best cultivating machines for orange and grape fruit growers.

Have four in use now would like to get some repair parts but cannot find any store keeping your machines or parts.

Please send me name of nearest distributor or catalog.

THOS. B. GIBBONS

SINGLE ACTION HARROWS-EXTENSION

WHERE A HORSE-DRAWN IMPLEMENT is wanted for intensive orchard tillage there is nothing better than a CLARK "CUTAWAY" Single Action Harrow-Extension. The description of the Single Action Harrow-Regular tells you about all the good features found in these harrows.

Reversible gangs are an absolute necessity for properly cultivating an orchard and there is no harrow built on which the gangs can be reversed so quickly and easily as on the CLARK "CUTAWAY". Furthermore, the harrow does just as good work whether the gangs are throwing out or in.

As you will note by the specifications on page 12, six sizes of the Single Action Harrow can be furnished with extension heads. In the single extension width steel head is regular equipment but wood head can be substituted at the same price. On the double, triple and quadruple extension widths, wood head only is furnished and this is because our many years of experience has proven that the wood head is not only lighter and more economical but is also more flexible than steel on these extra wide machines. Horizontal or "low-down" levers are regularly furnished on the double, triple and quadruple extension widths.



Reversible Single Action Harrow—Extension with Gangs Reversed

Cutaway Harrow Co.

Joliet, Montana.

Dear Sir:

Please send me prices of parts of your Clark 6 ft. Reversible Extension Harrow. I think I will want a set of disks and probably the shafts, have had it 16 or 18 years, it is the finest cultivator in an orchard I ever used and I have tried out several kinds. Use any of this letter for ad if you wish.

F. G. PICKERING

Single Action Disk Harrows---Extension



On the extension head harrows, the gangs can be placed close together in the center of the frame as on the regular head harrow and on harrows with more than one extension the gangs can be placed at the intermediate extension points. For example, on a triple extension head harrow the gangs can be placed in the triple extension position, also in the double and single extension positions, or they can be placed close together in the center. Naturally, all the sizes above the single extension head will project out beyond the disks when the gangs are moved in more than one extension.

Billerica, Mass.
The Cutaway Harrow Co.
Dear Sirs:—

Would be pleased to receive your catalog of Cutaway Harrows and booklet "Large Hay Crops." Have run one of your harrows 20 years but it needs general repairs now.

Thanking you in advance, I am,
B. O. SANFORD

Clark "Cutaway" Single Action Harrows---Extension

Size	No. of Disks	Diam. of Disks	of Cut	Hitch	Weight
*A-4	8	16"	6'	1 or 2-h	275
A-5	10	16"	7'	2-h	315
A-6	12	16"	8'	2 or 3-h	365
X-4	8	18"	6'	1 or 2-h	335
X-5	10	18"	7'	2-h	380
X-6	12	18"	8'	2 or 3-h	430

WOOD HEADS ONLY		
Double Ext. Width of Cut	Triple Ext. Width of Cut	Quad-ruple Ext. Width of Cut
8'	10'	12'
9'	11'	13'
10'	12'	14'
8'	10'	12'
9'	11'	13'
10'	12'	14'

* "A" means the disks are 16 inches in diameter; "X", 18; 4 means 4 disks to each gang, etc.

CORN AND COTTON HARROW

THE A-4 AND X-4 SIZES of the CLARK "CUTAWAY" Single Action Harrow are built so the gangs can be extended in such a manner that the harrow makes an excellent cultivating tool. While originally intended for cultivating corn and cotton it is used very successfully with many other crops. With the disks throwing the soil out (see larger illustration here) the gangs may be closed together, or extended to spread five inches apart in the center, or to spread eight inches apart, the latter being the position shown in the larger illustration. With the disks throwing the soil in (see smaller illustration) the gangs may be spread ten, thirteen or sixteen inches apart. At the same time the gangs can be closed together exactly as on the Single Action Harrow-Regular, for ordinary field work.

For cultivating astride rows, naturally, two horses are required but one fairly heavy horse can handle this harrow alone, and if wanted as a one-horse harrow for field work, this machine can be furnished with a combination one-horse hitch which is made so that the shafts can be converted into a pole for use with two horses, two-horse neckyoke being extra.

This harrow is identically the same machine as our Single Action Harrow-Regular in the A-4 and X-4 sizes. Listing these two sizes under the name Corn and Cotton

Harrow is for the purpose of calling attention to the extension feature. Specifications are repeated below for convenience.

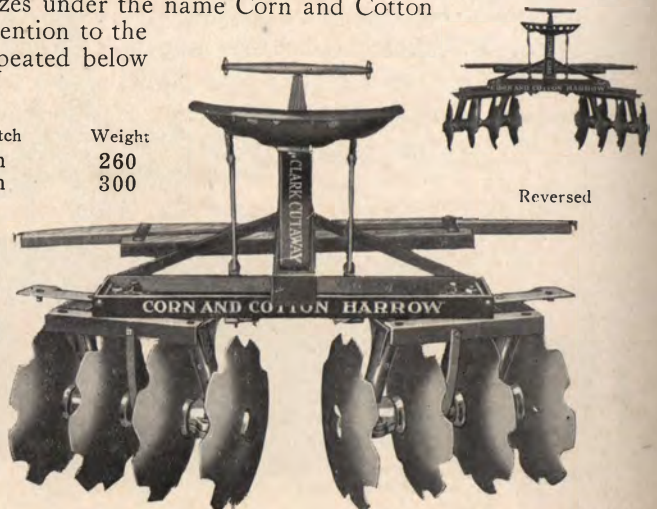
Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Weight
*A-4	8	16"	4' to 4' 6"	2-h	260
X-4	8	18"	4' to 4' 6"	2-h	300

Tallahassee, Fla.
The Clarks Cutaway Harrow Co.

Dear Sirs:

Please quote me your price for a two horse Double Action Cutaway Harrow. I bought several of your harrows a good many years ago, they are just about worn out; it was in the 1890 to 1900 and before. Send catalogue.

WM. ROBERTS



Tongue Trucks

Below are shown the two types of CLARK "CUTAWAY" Tongue Trucks. The harrow Tongue Truck, at the right, is as practical as a truck can be made. The universal joint permits the truck to easily follow any unevenness in the ground. The wheels are 16-inches in diameter which makes an easier running truck than those on which small wheels are used. The rim and spokes

are of steel and the hubs are cast on to the spokes making the wheel practically one piece. The bearings are of oil-soaked hardwood. Both the doubletree and pole clevis are adjustable on the standard, which accounts for the fact that many of our Tongue Trucks are used on other makes of disk harrows.

The single wheel Tongue Truck is made especially for the CLARK "CUT-AWAY" Bush & Bog Plow and Harrow but is suitable for any other implement on which a single wheel truck of this type is required. As will be seen in the illustration it is made somewhat heavier than the harrow Tongue Truck.



Disk Harrows For Small Tractors

We make special disk harrows for most of the small tractors, such as the Cultor, Centaur, Bee-man, Red-E and others. Write for special information stating make and power of the tractor.

Our special disk harrow for the Centaur Tractor is particularly popular and is regularly carried in stock by many Centaur Tractor distributors.

Grass Hoe and Cultivator

FOR THE eradication of many of the most tenacious grass and weed pests the CLARK "CUTAWAY" Grass Hoe and Cultivator is especially valuable. It consists of eleven teeth—four on each gang and three in the middle—placed in such positions as to make them cut every two and a quarter inches when the gangs are set full width. The gangs may be regulated in width from 12 to 24 inches. The teeth are curved in such a shape that they "take" the ground, tearing deeply and pulling out the grass and other weeds that lie in their path. This implement has been called an underground rake. Being built to tear out grass roots and other persistent pests, it is strong enough to stand the severest work to which it is likely to be put, and yet it is light and easy to handle. The weight is 60 pounds. It is equipped with wheel and the hitch is adjustable up or down.

While the CLARK "CUTAWAY" Grass Hoe and Cultivator meets special requirements as described above, it is also an excellent cultivator.



One-Horse Disk Harrows

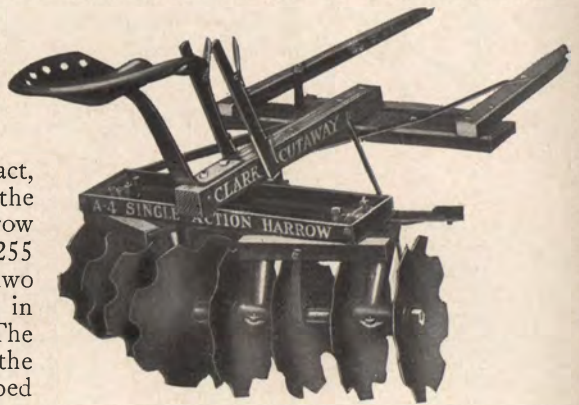
THERE ARE THOUSANDS of farmers who have real need for a disk harrow of the best quality to be used with one horse. The market gardener, the truckman, the florist and many others require a one-horse implement which will do the highest grade of work. At the same time there are many farmers with several horses who can profitably use one horse for tillage work, instead of letting him stand idle, when the rest of the horses are doing other work.

Realizing the demand for good one-horse disk harrows and the fact that most harrows are too heavy for one horse and are not suited to the requirements, we have, for a number of years, made quite a specialty of one-horse disk harrows. The result is that we now have five excellent machines specially built for one-horse use.

CLARK "CUTAWAY" one-horse implements are all fitted with forged-edge disks the same as on all other CLARK "CUTAWAY" Implements. Cutout disks are standard equipment but solid disks will be substituted at the same price. The bearings are of oil-soaked hardwood, perfectly lubricated. There is just as much care taken in the construction of these one-horse harrows as on the larger sizes of CLARK "CUTAWAY" Implements and the same high quality materials are used throughout.

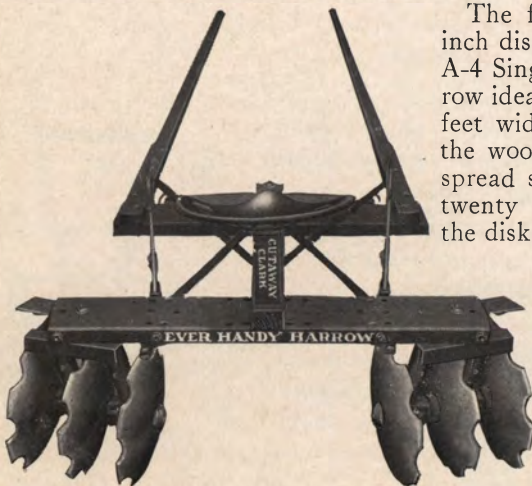
A-4 Single Action Harrow

For detailed description of the A-4 Single Action Harrow, illustrated at the right, turn to page 10 because this one-horse harrow is built exactly the same as the larger sizes of Single Action Harrows. In fact, this is the same harrow which is listed in the specifications (A-4 size) on page 11. The harrow has 8 16-inch disks, cuts 4 feet and weighs 255 pounds. It has reversible gangs, steel head, two levers and all the other good features found in CLARK "CUTAWAY" Single Action Harrows. The gangs on this harrow can also be extended the same as the Corn and Cotton Harrow described on page 12. The shafts can be converted into a pole by bolting them together to the end of the stub pole. Two-horse hitch is extra.



Ever Handy Harrow

The farmer who wants a one-horse harrow with 16-inch disks, but has a lighter horse than is suitable for an A-4 Single Action Harrow, will find the Ever Handy Harrow ideal. This harrow has 6 16-inch disks and cuts three feet wide when the gangs are placed close together, but the wood head is made so the gangs can be extended to spread seven inches, opening in the center; or to spread twenty inches, or to spread twenty-four inches. When the disks are throwing in, the gangs may be set two inches apart, or extended to spread eight inches, or to spread twenty-one inches, or to spread twenty-five inches. These adjustments make it possible to use the machine as a regular small disk harrow, as a disk cultivator, or as an extension disk harrow to cut out beyond the horse on either side. The harrow weighs 230 pounds and a medium or small horse can pull it, although for cultivating rowed crops, naturally two horses are used. The shafts can be made



into a pole by bolting them together to the stub pole, neckyoke and doubletrees being extra.

Grove Harrow

One-Horse Disk Harrow



Certain crops, such as citrus fruits and many garden crops, require very thorough, but shallow, cultivation. To this work the CLARK "CUTAWAY" Grove Harrow is especially well adapted. It is built as light as is consistent with reasonable strength and durability. The seat is omitted to save weight, but can be put on at any time if desired. There are ten disks, fourteen inches in diameter, placed only five inches apart. The width of cut is four feet and the harrow weighs only 169 pounds without seat so it is well suited for use with a small horse and for conditions where a light harrow is particularly desirable. The gangs may be adjusted to various angles by means of bolts in the head. They may also be as easily reversed to throw the soil either in or out. The CLARK "CUTAWAY" Grove Harrow is extremely popular among market gardeners who keep only

one horse because it is ideal for preparing a fine seed bed.

Utility Harrow

While many farmers have found the CLARK "CUTAWAY" Grove Harrow the best machine for their work and use it in preference to any other, at the same time there are some who would like to have the convenience of a lever for shifting the gangs and also prefer steel construction in the frame instead of wood. These advantages can be obtained for a small extra cost in the CLARK "CUTAWAY" Utility Harrow. As it has the same number of disks and cuts the same width as the Grove Harrow it can do the same kind of work, but as it is a little heavier, weighing 200 pounds, and is regularly equipped with seat which will add the driver's weight to the weight of the machine, this makes an excellent general purpose harrow. This machine is also equipped with clodbreakers between the disks where there is no standard which makes it suitable for use on heavy soil.



Baby Cultivator

For rowed crops, whether in field, garden or nursery, the CLARK "CUTAWAY" Baby Cultivator is a valuable tool for those who cultivate very intensively. It is as simple as a tillage implement can be made. There is nothing to get out of adjustment and there are no parts to lose easily. The distance between the disks is only four inches, which assures fine, thorough work.



It is equipped with fore carriage and adjustable clevis. The head forms a weight box. The gangs are easily adjusted to various angles by means of bolts in the head and they may also be reversed so that the disks will throw the soil either out or in. This feature makes it possible to cultivate to or from the rows and raise or tear down the beds. The Baby Cultivator is made in two sizes. The No. 1 has 6 14-inch disks, cuts twenty-four inches wide and weighs 90 pounds. The No. 2 has 8 14-inch disks, cuts thirty-two inches wide and weighs 105 pounds. A small horse can easily pull either size so the choice will depend upon the width of rows in which the cultivator is to be used.

Bush & Bog Disk Plow and Harrow

implements. This is not a new, untried machine; it has been on the market for many years. Thousands of acres of virgin land have been turned into productive farms with this remarkable implement and new uses are being found for it constantly.

Many Uses. Land reclaimed by the Bush & Bog Plow and Harrow pays over and over, in increased value alone, the cost of the machine, time and labor. This moreover does not end the usefulness of the machine, for it can afterward be used for any regular tillage and is especially good for disking heavy stubble such as corn. Among those farmers and orchardists who till unusually deep it is used for general cultivation. The Bush & Bog Plow and Harrow has become very popular as an orchard implement for chopping up sod or disking in a cover crop.

Reversible Gangs. As is shown in the larger illustration, this machine is a big, heavy disk plow or harrow. It is equipped with extra heavy 24-inch disks of standard CLARK "CUTAWAY" quality, forged sharp. Cutout disks are furnished as regular equipment and are recommended, but solid disks will be substituted, if desired, at the same price. The bearings are dust-proof, oil-soaked hardwood, perfectly lubricated. The Bush & Bog Plow and Harrow is reversible; that is, the gangs can be exchanged so that the soil may be thrown either out or in. It is built very strong throughout and stands up under work that would totally wreck other machines.

Tractor Bush & Bog Plow and Harrow

Tractor Bush & Bog Plow and Harrow

Size	No. of Disks	Diam. of Disks	Width of Cut	Weight
No. 8	8	24"	5' 6"	665
No. 10	10	24"	7'	810
No. 12	12	24"	8'	1015

Weight Box adds about 100 lbs.

The Tractor Bush and Bog Plow and Harrow is made with heavy angle steel frame. The horse-drawn machine and the Junior size have heavy oak frame. SCREW CONTROL REGULAR EQUIPMENT on tractor



models, furnished unless otherwise specified. Lever substituted at same price.





Subduing Cut-Over Land Quickly and Economically with the Bush & Bog Plow and Harrow

Bush & Bog Disk Plow and Harrow

For Tractor or Horses.

For many years before tractors were used the Bush & Bog Plow and Harrow was sold in large quantities for horse use. The horse-drawn machine has 8 24-inch disks and cuts five and one-half feet wide. Four fairly good horses are required to operate most successfully. A Fordson Tractor can easily pull the No. 8 Tractor Bush and Bog

Plow and Harrow with 8 24-in. disks, and this size is generally used with other tractors such as the Cletrac, McCormick-Deering, John Deere, etc. However, for such tractors we can furnish the Bush and Bog Plow and Harrow in two larger sizes, one having 10 24-in. disks and the other 12 24-in. disks. For those who want a smaller machine the Junior Bush and Bog Plow will be found satisfactory.

Extra Equipment.

Below is shown the Bush & Bog Plow and Harrow with four horse equipment. Either the large machine or the Junior size can be equipped with tongue truck and doubletrees in place of the long pole and neckyoke. The special tongue truck for this implement is shown on page 13. On page 7 you will find described the transport truck for the Bush & Bog Plow and Harrow. While bags of sand can be easily used to weight down the machine, we can furnish a weight box.

Junior Bush & Bog Plow and Harrow

The CLARK "CUTAWAY" Junior Bush & Bog Plow and Harrow is made specially to meet the requirements of the man who needs an implement like this but cannot use the larger machine on account of having only two horses available. It is built exactly along the same lines as the larger implement and is proportionately strong. It is equipped with eight extra heavy 20-inch disks, cuts 4½ feet and weighs 440 pounds. The Junior Bush & Bog Plow and Harrow is not illustrated because, except for its smaller size, it is exactly the same in appearance as the larger machine, but equipped with two-horse doubletrees and neckyoke instead of the four-horse equipment shown below. We can also furnish it with tractor hitch at the same price as in some cases farmers find that 20-inch disks are large enough for their conditions and they prefer the lighter, lower priced machine. As the disks are closer together this machine cuts a little finer than the large one and is used for other work than subduing new ground.

B. G. PRATT COMPANY
Manufacturers of *Scalecide*
New York, N. Y.



Clark Cutaway Harrow Co.,
Gentlemen:

Please mail at once to Mr. A. N. Pratt, Manager, Pratt Orchard Company, Milton, Delaware, one screw thread baffle plate and key for the right hand inside disc of your Bush and Bog Plow. Send the bill to us here.

We have been using one of these plows for the past few months, and if we had known its value before would have been using one for several years, as it is undoubtedly the best cultivator for new ground that we have ever seen.

Very truly yours, B. G. PRATT COMPANY,
(Signed) B. G. Pratt, *President*

BGP.LMS

Right Lap Disk Plows

THERE ARE THOUS-
ANDS of acres of grain
stubble land plowed every
year with CLARK "CUTAWAY"
Right Lap Plows at a tremen-
dous saving in time and expense over the use of
moldboard plows followed by ordinary harrows.

Most Economical Fallow Land Plow.

The moldboard plow is a
necessity for turning over
sod but for plowing fallow

land a moldboard plow is slow and it leaves the land in such condition that it must be har-
rowed. A CLARK "CUTAWAY" Right Lap Plow pulverizes the soil thoroughly; it mixes the top
with the bottom soil; stirs it so that the air penetrates all through; leaves the soil loose and mel-
low so that the land can be sown without the expense of harrowing. Not only is the time of
harrowing saved but the plowing is done in one-third to one-half the time required by mold-
board plows.

Successful Where Other Plows Fail.

In many sections where small grain is grown, prolonged dry spells bake
the land so hard that it cannot be plowed with moldboard plows. This
is the time when the CLARK "CUTAWAY" Right Lap Plow is found indis-
pensable for it enables the grain grower to plow his stubble and sow his grain as usual. CLARK
"CUTAWAY" Right Lap Plows are also meeting with great favor in the Carolinas and other
southern states for plowing after cotton and corn crops, also plowing for rice.

Sizes For All Conditions.

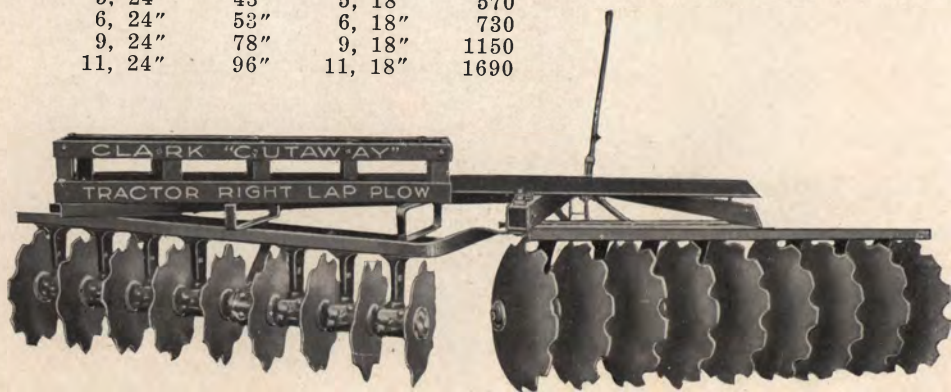
For many years we have built seven sizes of horse-drawn Right Lap Plows
and we are retaining all these sizes so as to meet any conditions although now
there are more tractor machines sold. Tractor Right Lap Plows are built much
heavier and stronger throughout than the horse-drawn machines to withstand the extra strain
of tractor power. The four sizes meet most tractor requirements, the No. 5 and No. 6 sizes
being suitable for tractors from eight to twelve drawbar horse power depending upon condi-
tions and the efficiency of the tractor used. The No. 9 and No. 11 Tractor Right Lap Plows are
suitable for 15-30 tractors and larger. The Tractor Right Lap Plow is made with all steel frame,
large steel weight box and dust-proof bearings throughout.

The Tractor Right Lap Plow does not have scrapers and are rarely needed but can be fur-
nished as extras if wanted. Scrapers are required when sedder attachment is used. Weight
box can be supplied for horse drawn machines as an extra.

Disks are of cutlery steel rolled to our own analysis and forged sharp. While cutout disks
are recommended we will substitute solid disks if desired at the same price.

Clark "Cutaway" Tractor Right Lap Plows

Size	Plowing Disks	Width of Cut	Coulter Disks	Weight
No. 5	5, 24"	43"	5, 18"	570
No. 6	6, 24"	53"	6, 18"	730
No. 9	9, 24"	78"	9, 18"	1150
No. 11	11, 24"	96"	11, 18"	1690



Seeder Attachment. Any size CLARK "CUTAWAY" Right Lap Plow can be furnished with a force feed seeder attachment which will sow all kinds of small grains. This attachment enables the grain grower to plow his stubble land and re-seed in one operation.

Right Lap Disk Plows



***Horse Drawn Right Lap Plows**

Size	Plowing Disks	Width of Cut	Coulter Disks	Hitch	Weight
No. 3	3, 22"	24"	3, 17"	2-h	315
No. 4	4, 24"	34"	4, 18"	4-h	445
No. 5	5, 24"	43"	5, 18"	4-h	520
*No. 6	6, 24"	53"	6, 18"	4-h	650
No. 7	7, 24"	60"	7, 18"	4-h	825
No. 8	8, 24"	70"	8, 18"	4-h	920
No. 9	9, 24"	78"	9, 18"	6-h	1125

*The No. 6 and sizes larger are equipped with depth wheel.

**Horse Drawn Right Lap Plows are regularly built with heavy oak frame. The No. 4, 5 and 6 sizes can be furnished with steel frame on special order.*

Tractor Double Action Disk Orchard Tiller

HERE is an implement that saves fruit growers a lot of money in cultivating under wide, low-headed trees. In fact, it will do the work that many an orchardist has despaired of doing at all. Experts recommend thorough disking as an important aid in insect control and to destroy harboring places of mice and other pests, in addition to the benefits derived from thorough tillage with which every successful fruit grower is familiar.

The CLARK "CUTAWAY" Tractor Double Action Orchard Tiller is the only implement of its kind; nothing else takes its place. It double disks under the branches close to the trees where you cannot work with ordinary implements. It chops up sod and cover crops, keeps down weeds, and maintains a mulch. Depth of cut is regulated by the angle of the gangs and the amount of weight carried in the underslung weight box. The machine is built extra strong and best materials are used.

The right hand side of the machine is equipped with two gangs, each having 6 18-inch heat-treated, forged-edge, cutlery steel disks. The front disks throw the soil toward the tree and the rear disks away from the tree, *leaving the land level*. With the two gangs of disks throwing in opposite directions, each gang offsets the side thrust of the other. The flat coulter disks on the left hand side keep the machine running straight. It is an easy machine to use.

The outside disk cuts 4 feet 9 inches beyond the right hand wheel of a Fordson Tractor, which easily pulls the implement. Gangs may be extended on the frame one foot, making the reach 5 feet 9 inches. Machine is 9½ feet over all, or 10½ feet when gangs are extended. Weight 800 pounds. Special sizes can be made to order.

Galvanized Sheet Iron Tree Guard in front of disks can be furnished as an extra.



Tractor Orchard Disk Plow



Under the Branches, Close to the Trees—

is the most difficult part of an orchard to cultivate. On page 21 is described the CLARK "CUTAWAY" Orchard Plow for use with horses. That machine has been used by successful fruit growers throughout the United States for more than thirty years. For the fruit grower who uses tractor power the CLARK "CUTAWAY" Tractor Orchard Plow has been specially designed. While it is an outgrowth of the horse-drawn orchard plow and is constructed along the same general lines, it is, however, a special tractor plow with some new features.

Plowing and Harrowing in One Operation.

This implement takes the place of a moldboard plow and does more than a disk harrow. While it does difficult work like breaking up old sod, it will also disk in a cover crop so thoroughly that it isn't necessary to use a harrow afterward. By doing practically a plowing and harrowing job in one operation there is a tremendous saving in time and labor. The plowing gang is reversible, so the orchardist can throw the soil towards the trees or away from them and is especially valuable in an old orchard where ridges have been built up as a result of many years cultivating with ordinary implements. The illustration shows the plowing gang reversed with the disks throwing away from the tree.

Pulls Straight.

The coulter disks on the left hand gang are flat disks 18-inches in diameter. They take up the side thrust of the machine and keep it running straight. There is an adjustment for setting the coulter disks at a slight angle if necessary. The plowing disks are 22-inches in diameter and of course these are regular curved disks. Both the plowing disks and the coulter disks are of the same quality steel with edges forged sharp. The plowing gang cuts three wide.

Practical Construction.

The head, or main frame, is of hardwood because it is lighter, more flexible and more durable than steel would be in such an implement and at the same time it reduces the cost. The rugged, galvanized sheet iron guard is curved to lift the branches over the machine without damage. (Allowance is made if guard is not wanted.) The large under-slung weight box conveniently carries as much weight as necessary to secure required penetration on heavy work. The lever which adjusts the angle of the plowing gang is in a horizontal position back of the head and out of the way. The machine is 10 feet wide over-all and the outside disk cuts 5 feet beyond the right hand wheel of a Fordson Tractor. Weight is 775 pounds. We can also furnish the machine made 8 feet over-all with weight box on top and no shield, which is generally preferred for peach orchards. A 10-20 tractor can easily pull the Tractor Orchard Plow.

"DIAMOND LAKE FRUIT & DAIRY FARM"
GLASTONBURY, CONN. R. F. D.

The Cutaway Harrow Co., Higganum, Conn.
Gentlemen:

You asked us to tell you how we liked the CLARK "CUT-AWAY" Tractor Orchard Plow which we bought about two weeks ago. It is a dandy tool and has saved us a lot of time and work.

We have an eighteen year old apple orchard with tough sod that hasn't been plowed or harrowed all of eight years. Have twenty-five acres of bearing peach trees and four acres of old apple trees. The land is just full of rocks and boulders of all sizes.

We plowed the whole twenty-nine acres in three and a half days with the Fordson and used forty-five gallons of gas for the job. We got the work done two weeks ahead of time, saved a lot of work and did a better job. If we had to throw the Tractor Orchard Plow on the junk pile now it wouldn't owe us a cent, but we expect it will last us a long time even on our rough country, and we'll be glad to have you use our name for reference if you want to.

Zola Brothers





EVERY FRUIT GROWER KNOWS the importance of cultivating close to his trees. Ordinary types of tillage tools are not adapted to this work; a special machine is required.

Orchard Disk Plows

Cultivate Close to Trees.

The CLARK "CUTAWAY" Orchard Plow, illustrated below, is constructed with the plowing disks set off to the right so that they extend beyond the team. It is made in three sizes as shown below. For wide, low-branching trees it is equipped, when so ordered, with an extension head which extends the gang so that the outermost disk cuts five feet beyond the team. With this extension head the gang may be set in any one of three

positions; regular, as in illustration; or fully extended; or midway between the two extremes.

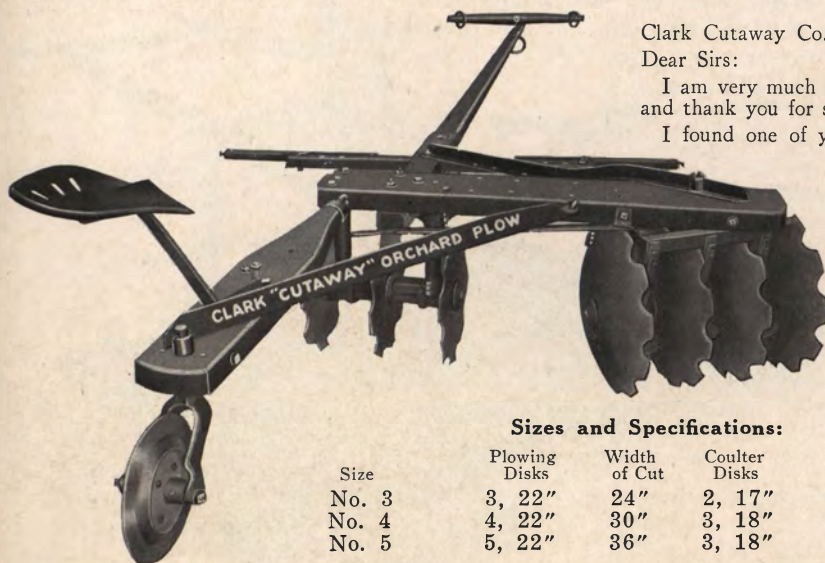
Throw Soil To or Away From Trees.

To reverse plowing gang it is only necessary to pull the cotter pin that holds the lever link, drop the link, swing the gang around and re-attach link. This feature makes it possible for the orchardist to throw the soil to his trees at one cultivation and away at the next. He can ridge his land or keep it level. As will be observed in the illustration, the lever which regulates the angle at which the gang is set lies in a horizontal position back of the head. In this position it cannot catch upon the low-hanging branches and is in easy reach of the driver. The coulter, or straight, disks counteract the side draft due to the position of the plowing disks. The steering wheel also serves to maintain a perfect line of draft; when turning corners it is released to swing on its pivot, locking in place when team goes straight ahead again.

Better Than Ordinary Plow or Harrow.

The CLARK "CUTAWAY" Orchard Plow will chop up sod or disk in a cover crop. It not only does better work than a moldboard plow but is also much faster, thus paying for itself in time saved as

well as in better results.



Point Pelee, Ont.

Clark Cutaway Co.,
Dear Sirs:

I am very much pleased with valuable literature and thank you for same.

I found one of your orchard disc or California orchard plow which I bought second hand. Am very much pleased with it.

I will reserve your catalogue for future use, thanking you for same,

N. C. JAMES.

Sizes and Specifications:

Size	Plowing Disks	Width of Cut	Coulter Disks	Hitch	Weight
No. 3	3, 22"	24"	2, 17"	2-h	340
No. 4	4, 22"	30"	3, 18"	2-h	420
No. 5	5, 22"	36"	3, 18"	2-h	440

*Without steering wheel shipping weight is 55 pounds less.

Smoothing and Leveling Harrows

SMOOTH SEED BEDS ARE IMPORTANT. For many crops it is not enough to cut and chop the soil until a deep, fine tilth is obtained—a smooth, true surface free from clumps and hollows is also necessary. Those who prepare their land for maximum crops realize this fact and use the CLARK "CUTAWAY" Smoothing and Leveling Harrow. It is a combination of the spike-tooth harrow and plank drag. The teeth are set in three rows and in such positions as to make a tooth cut every inch and a quarter. These teeth stir and shift the soil about so that even the finest pieces are worn into still smaller particles.

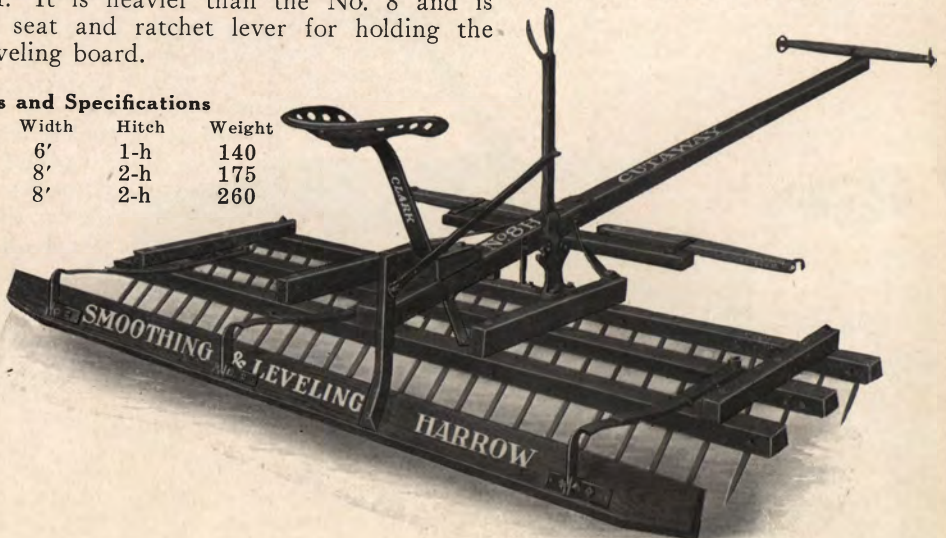
Levels As It Pulverizes. Not only does the Smoothing and Leveling Harrow thoroughly pulverize the soil, making a fine soft seed bed, but it also levels the surface. The leveling board at the rear carries the soil from the high places into the hollows and at the same time firms the surface, the amount of soil carried depending upon the position in which the drag is held. Wherever a perfect surface is required this harrow is indispensable.

Many Uses. The accompanying photograph shows a CLARK "CUTAWAY" Smoothing and Leveling Harrow doing such a perfect job that it is being followed by a hand seed drill. For many years these harrows have been used extensively in the celery growing district of Florida, the great onion section of Texas and by market gardeners everywhere. For fields irrigated by flooding it is a most useful tool. The fact that this harrow is used for preparing lawns and golf courses indicates the perfect work that it does.

The Smoothing and Leveling Harrow is made in two two-horse and one one-horse sizes. The larger illustration is the No. 8H. It is heavier than the No. 8 and is equipped with seat and ratchet lever for holding the angle of the leveling board.

Sizes and Specifications

Size	Width	Hitch	Weight
No. 6	6'	1-h	140
No. 8	8'	2-h	175
No. 8H	8'	2-h	260



Cider Mills and Fruit Presses



In the construction of our Cider Mills we put the same high grade materials and workmanship as in CLARK "CUTAWAY" Disk Tillage Implements. That is why these cider mills are preferred by those who are not satisfied with just a cheap outfit that will answer the purpose temporarily, but want a cider making apparatus that will give years of satisfactory service. Write for special folder which describes the Cider Mills in detail and tells about the unique grinder which first slices the apples and then grates them to a fine pomace.

Selected hardwood, mortised joints, extra bracing and other features used in the construction of our Cider Mills, are also found in the CLARK "CUTAWAY" Fruit Presses, making them unexcelled for strength and durability. The tubs are made of hardwood slats riveted to heavy steel hoops. Either plain or hinged tubs can be furnished. The screws with four-way heads are made of high grade steel and the thread is cut deep and accurately, insuring long life and easy operation. Write for special folder giving complete specifications of the four sizes of fruit presses.

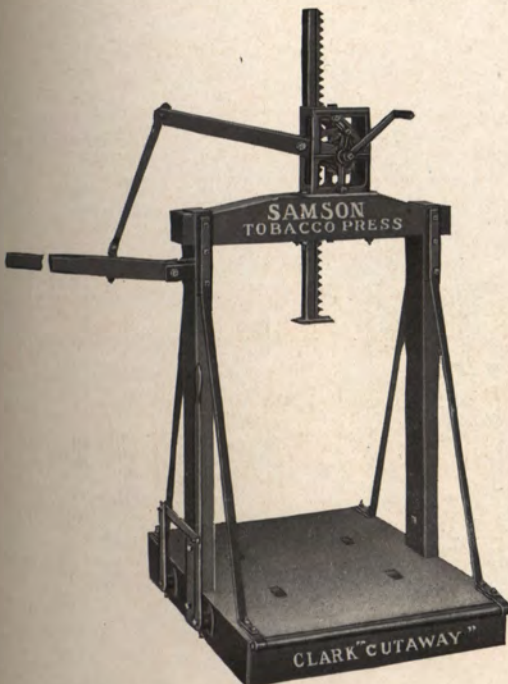


Tobacco Press

THE SAMSON TOBACCO PRESS is undoubtedly the most efficient hand press made for packing tobacco in bales, barrels or cases. For years it has been standard equipment in the leading tobacco packing houses in the United States, Cuba and Porto Rico. The fact that many Samson Tobacco Presses have been giving uninterrupted service for twenty years and more in packing houses speaks well for the unusually high grade materials put into these presses.

The Sumatra Baling Box is a special box made for the Samson Press and we also make what is known as the Plain Baling Box which, while lacking some of the features of the Sumatra box, is suitable for many kinds of work.

This tobacco pressing equipment is also used for pressing other commodities and has been used for many unique purposes. Write for special folder giving full details.



Why a Cutout Disk ?

WHILE we will furnish any CLARK "CUTAWAY" Implements with either cutout or solid disks, both forged sharp, we want you to know why we recommend cutout disks for most conditions.

The points on a cutout disk penetrate hard ground easier than the plain, smooth edge of a solid disk and in a like manner the points work their way down in between stones which makes cutout disks preferable for stony ground. The superiority of cutout disks is very apparent on sod for the chopping action of the points and notches cuts and tears the sod. On fallow land where solid disks do excellent work, the cutout disks do even better for they pulverize the soil more thoroughly and leave it more level.

Do not compare CLARK "CUTAWAY" cutout disk with ordinary imitation cutout disks. The notches on our cutout disks are just the right depth to do the most effective work and haven't any of the disadvantages of the wrongly made cutout disks which have deep V-shaped notches. The notches on CLARK "CUTAWAY" disks are U-shaped as you will note by the illustration on page 2. This gives a slicing action the way you would cut with a knife. The notch at its greatest depth is not deep enough to leave any work undone. The CLARK "CUTAWAY" 16-inch disk, for example, has eight points, whereas, an ordinary 16-inch disk has only six or seven points.

Cutting out a 16-inch disk the way we do makes six inches more cutting edge than there is on a solid disk of the same size. On larger sizes the increase is proportionate. When you stop to consider how many thousands of revolutions are made by each disk on a harrow in disking a field, and that each disk is doing six inches more of cutting every time it revolves, you get some idea of the tremendous advantage of CLARK "CUTAWAY" cutout disks. Furthermore, you are getting this extra effectiveness with less draft for cutout disks penetrate easier than solid disks.

If any one tries to sell you solid disks in preference to cutout, you will generally find that they do not furnish cutout disks, or if they do, they are not the same as CLARK "CUTAWAY" cutout disks. Most harrow manufacturers purchase their disks ready made but we make our own disks and they are the only ones on which the edges are hot-forged under a trip hammer. See notice on the back cover.

Printed in U. S. A.

There is only one

Clark
CUTAWAY

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