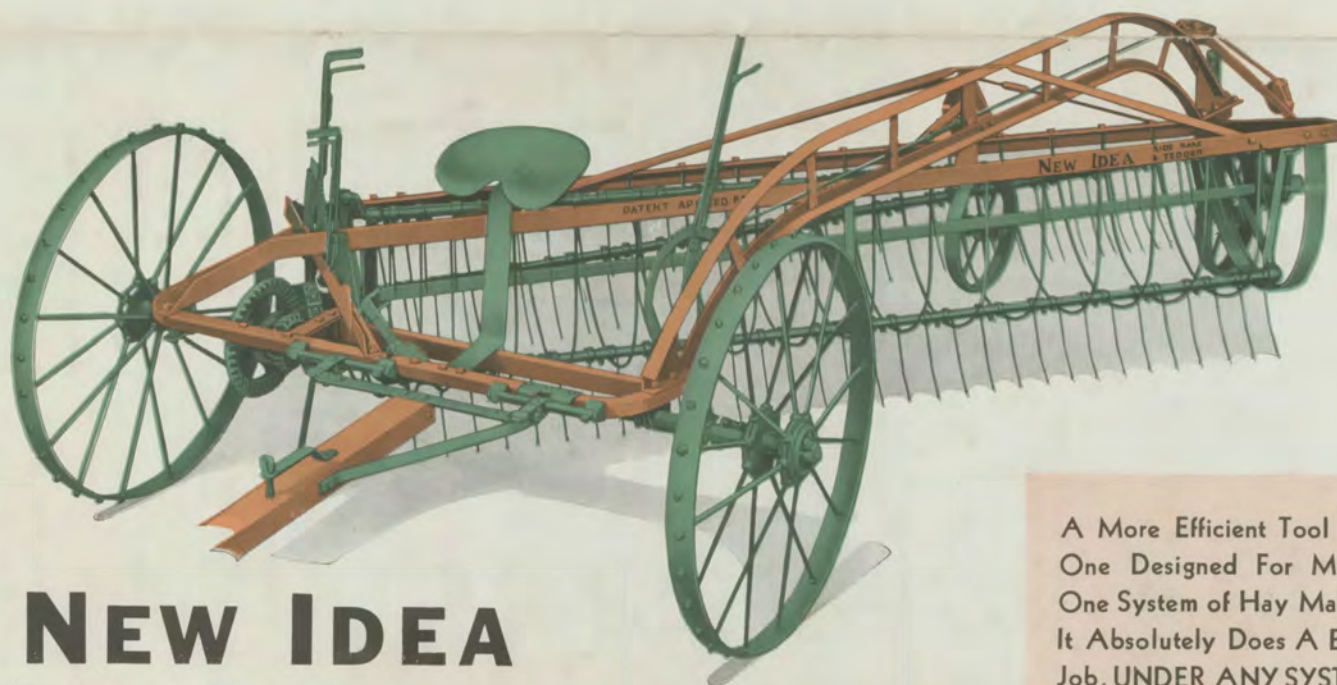


Yours FOR ALFALFA, ALL KINDS OF HAY AND BEANS

Builds Loose, Fluffy, Quick Curing Windrows With A Large Majority of the Leaves Inside and Stems Exposed



NEW IDEA SIDE DELIVERY RAKE AND TEDDER

A More Efficient Tool Than One Designed For Merely One System of Hay Making. It Absolutely Does A Better Job, UNDER ANY SYSTEM, Than is Possible With Any Other Rake.



Manufacturers of
NEW IDEA
FARM EQUIPMENT
SINCE 1899

NEW IDEA, INC.

Factories at
COLDWATER, O.
SANDWICH, ILL.

COLDWATER, OHIO

MANURE
SPREADERS

HAY
LOADERS

TWO-ROW
CORN PICKERS

PORTABLE
GRAIN ELEVATORS

HAND
CORN SHELLERS

TRANSPLANTERS

STEEL
FARM WAGONS

HAY
RAKES

CORN HUSKERS
AND SHREDDERS

POWER
CORN SHELLERS

FEED
MIXERS

GASOLINE
ENGINES

Whichever Method of Hay Making You Practice, These Features of **NEW IDEA** Design and Construction Make for Better and More Profitable Hay Making!



Illustration A

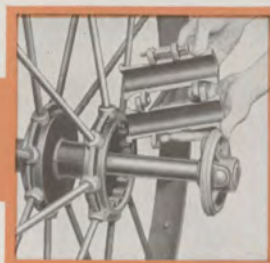


Illustration B



Illustration C

Illustrations A, B, and C show the **QUICK-SHIFT WHEEL**. Raking immediately or very soon after mowing requires, in case of heavy hay or unfavorable weather, that the windrow be turned half over, rolling the dry top of the windrow over on dry ground and the wet bottom up and exposed for quick drying. Shift the left wheel to "in" position as illustrated and while raking drive alongside the windrow and note the length of reel available for this splendid operation.

Illustration D shows extra caster wheel in tilted position and out of the way for tedding or aerating the hay.

A tedding or aerating feature is built in the **NEW IDEA** Rake. This is an indispensable feature. After a hard beating rain the **NEW IDEA** tedding feature which is geared to a special speed for this work lifts or fluffs up gently the matted hay for quicker curing and a thorough aerating job results.

Illustration E shows the **QUICK-SHIFT TONGUE**. When different widths of swaths are encountered and in working in bean fields and for certain hillside work, it is desirable to change the position of the team. This is done by the quick-shift tongue. There are three lateral positions — just lift the spring clip holder and shift the tongue to desired position.

Illustration F shows the **NEW IDEA DOUBLE-CURVED TOOTH** and range of tooth adjustment. It takes a curved tooth to make loose, fluffy windrows for allowing free circulation of air. The ordinary curved tooth, however, has a tendency to dig into the ground. To overcome this, **NEW IDEA** engineers developed the double-curved tooth which is curved ahead for proper raking but with its extreme end bent to eliminate digging and to make possible smooth gliding over the surface. (Figure 1 in Illustration F shows the **NEW IDEA** double-curved tooth at a raking angle.) **NEW IDEA DOUBLE-CURVED TOOTH** construction also makes possible an excellent tedding or aerating job. (Figure 2 in Illustration F shows **NEW IDEA DOUBLE-CURVED TOOTH** at angle for tedding.) The double-curved tooth has all the advantages but is minus the disadvantages of the ordinary curved tooth and in addition has the valuable tedding feature for use when weather conditions make this operation necessary.

The **NEW IDEA DOUBLE-CURVED TOOTH** is made up of oil tempered spring steel. The tooth is of such a size as

to have great flexing capacity, such a tooth being better and safer than one which is of a more rigid nature. Teeth at the end of the reel, those which have the hardest work to do, are two gauges heavier than the inner teeth on the reel. (Figure 3 in Illustration F shows the wide range of tooth adjustment which is sufficient to meet every field condition.)

Illustrations G and H show the **NEW IDEA** positive clutch and driving mechanism. The positive clutch, when engaged, starts the reel working immediately when the team starts. There is no unraked hay or bunches of hay dragged up in front or underneath the basket, resulting in clogging and oftentimes necessitating backing up in order to get started. There is no shock and consequent breakage with this positive clutch.

Both ground wheels are drivers and the axle operates freely in long bearings. Driving mechanism consists of two bevel gears running loose on the axle — the inner side of these gears have clutch hubs — in between these two bevel gears is the sliding positive clutch. When going to the field the clutch is put in neutral position. For raking, clutch is shifted over to engage the small bevel gear. For tedding or aerating the clutch is shifted to engage the large bevel gear. A combination gear pinion and sprocket with a strong steel drive chain delivers power to the reel. Both ground wheels have internal ratchet hubs with closely spaced lugs. Thus a very small amount of turn on the wheel causes it to engage immediately.

Illustration I shows the **NEW IDEA** method of controlling angularity of the teeth. On ordinary rakes accurate tooth control cannot be had after a year or two because of excessive wear. In **NEW IDEA** construction, the control mechanism is keyed together on a single solid shaft, making for accurate and permanent tooth control. Here is used the new type control box employing two large rollers turning on machined spindles, running on a ground face or track and inclosed in a dust proof case. This part is really the heart of a side rake and **NEW IDEA** construction at this point is unequalled.

In illustration L at bottom of page note construction of the reel basket. Observe how close the strippers come to the tooth bars — the large number of stripper bars in basket — the high position of front angle of basket — the round stripper bars — the spacing of the stripper bars to come between the pairs of teeth — the strong flanged fender bar at outer end of basket



Illustration D

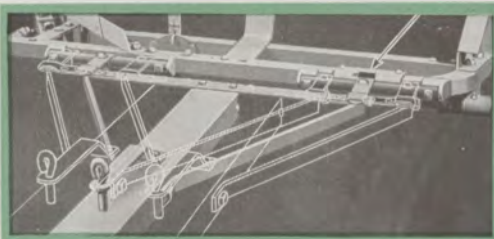


Illustration E

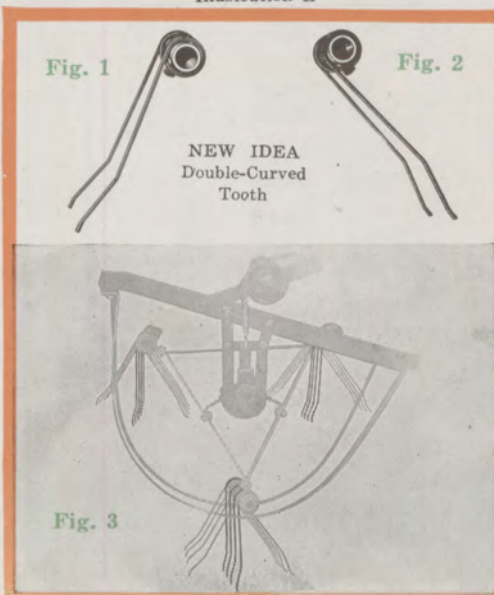


Illustration F

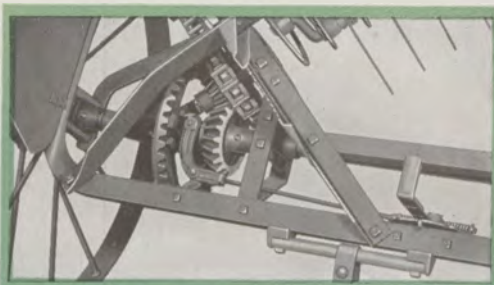


Illustration G



Illustration H

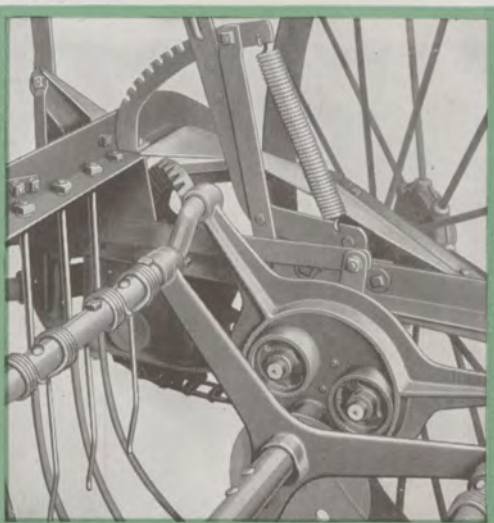


Illustration I



Illustration K

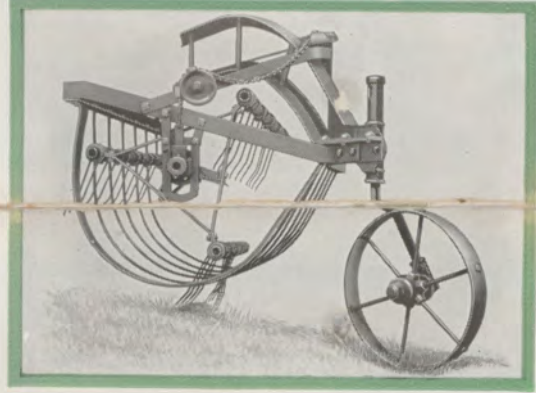


Illustration J

SPIRAL, TAPERED REEL — FLEXIBLE CONSTRUCTION. These are characteristics of the **NEW IDEA** reel. Tooth bars are built spirally on the reel, resulting in the tooth bars sweeping over the surface in a smooth continuous manner. Center spider is not fastened to reel shaft, resulting in center portion of reel being flexible and can yield if ground teeth in center hit some slight obstruction. (See illustration K). Reel is larger in diameter at outer end than at front end, resulting in a greater tip speed at the outer end, thus imparting a quicker movement where hay is heaviest in front of basket and this makes for loose, fluffy windrows.

TRUSSED ARCH FRAME design is a new and important feature. It eliminates the customary bobbing prevalent in other designs. For good clean raking it is essential to have a steady frame in which a quick yielding reel can properly function so as to rake clean and without jibbing into hummocks and thereby causing excessive draft.

CLEARANCE. The trussed arch frame provides for extremely great vertical and horizontal clearance. The heaviest hay can be handled without any compression. There is absolutely no obstruction with this great clearance in front of the high level basket angle, not even on windy days. The hay comes out from in front of the basket in large fluffy windrows.

QUICK-SHIFT TONGUE

Safety Seat And Easy Lever Control

QUICK-SHIFT WHEEL

NEW IDEA TRUSSED ARCH FRAME
Rigidity — no bobbing of main frame — weight of frame not carried on teeth

EXTRA LARGE HORIZONTAL AND VERTICAL CLEARANCE for free movement of hay.

DOUBLE-CURVED TOOTH for efficient raking and aerating. Regulated with **NEW IDEA** tooth control mechanism.

YIELDING SPIRAL REEL with reverse high speed for aerating.

Illustration L

The **NEW IDEA** SIDE RAKE and TEDDER

It Makes No Difference Whether Your Important Hay Crop Is Alfalfa, Timothy, Clover, Soy Bean Hay or Whether Beans Are To Be Handled, the New Idea Side Delivery Rake Has Been Designed and Built With the Sole Idea of Accomplishing Better and More Profitable Results Than Has Heretofore Been Possible By Hand or Machine.



RAKING



RAKING SOY BEANS



TEDDING or AERATING



HANDLING FOUR ROWS OF BEANS

Let Your Next Rake Be A NEW IDEA Because - -

- it has the new TRUSSED ARCH FRAME
- it has a SPIRAL, FLEXIBLE, QUICK-YIELDING REEL
- it has a BASKET WITH CLOSELY SPACED STRIPPER BARS
- it is LIGHT DRAFT
- it has PERMANENT TOOTH CONTROL
- it has NEW IDEA DOUBLE-CURVED TEETH
- it has a POSITIVE CLUTCH
- it has a QUICK-SHIFT LEFT WHEEL
- it has a QUICK-SHIFT TONGUE
- it is EASY TO OPERATE.
- other important features described herein.

Distance from first to last tooth along reel..... 116½"
Shipping weight of regular rake..... 843 lbs.

Shipping weight with Extra Caster Wheel..... 900 lbs.

Size of ground wheel..... 44" Dia. x 3" convex rim.
Size of caster wheel..... 18½" Dia. x 2½" convex rim.

The New Idea Hay Loader

● ● MODERN HAY LOADING ● ●

ARE YOU INTERESTED IN CLEAN HAY FIELDS? DO YOU NEED A LOADER THAT WILL PERFECTLY HANDLE ALFALFA AND BEANS? ARE YOU INTERESTED IN HAVING YOUR HAY OF A BETTER GRADE FOR MARKETING? ARE YOU INTERESTED IN YOUR HAY HAVING THE MAXIMUM FEEDING VALUE WHEN FED TO YOUR OWN LIVE STOCK? ARE YOU INTERESTED IN DOING YOUR HAYING JOB WITH THE LEAST LABOR AND WITHOUT LOSS OF TIME?

IF YOU ARE INTERESTED IN THESE BETTER HAYING RESULTS, IT WILL BE WORTH YOUR TIME AND IT WILL PAY YOU WELL TO STUDY MODERN HAY LOADING, AS DONE WITH THE NEW IDEA EASYWAY HAY LOADER.

Write for a copy of the illustrated and descriptive NEW IDEA Hay Loader Catalog.

