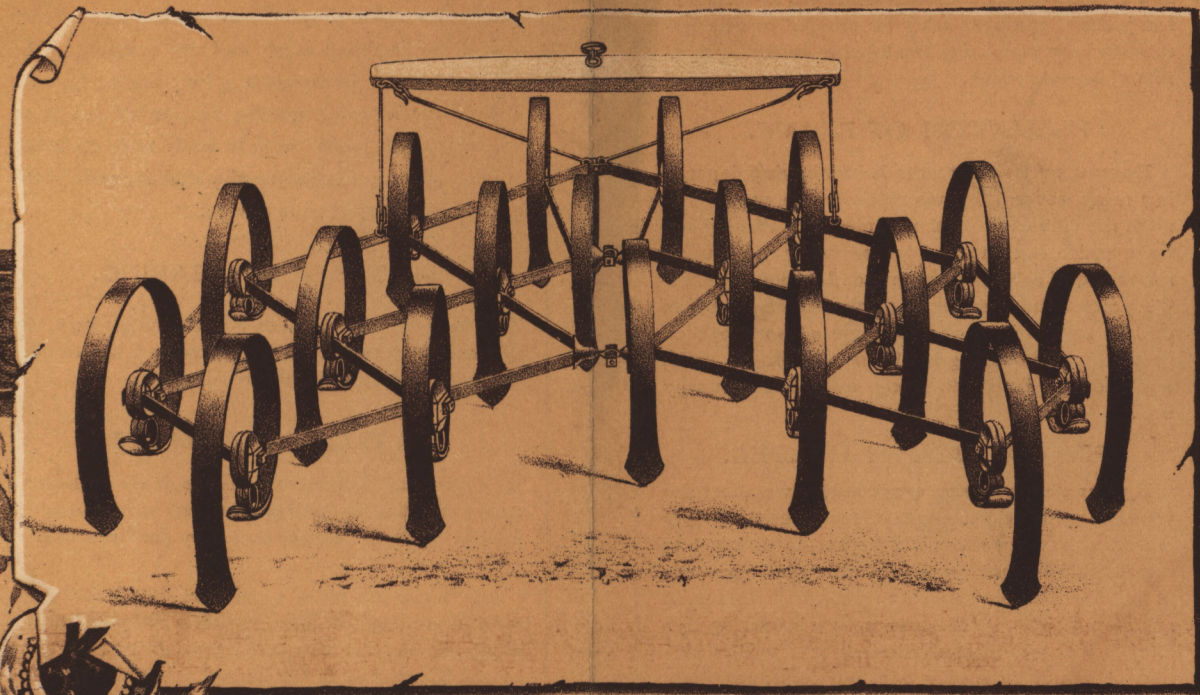


BUFFALO PITTS SPRING TOOTH HARROW.

ALL STEEL DIAMOND TRUSS, ELEVATED FRAME.
NEARLY 5000 SOLD IN 1891.



FRAME ELEVATED ITS ENTIRE LENGTH,
MAKING IT THE
LIGHTEST DRAFT HARROW IN THE WORLD.

ESTABLISHED 1851.

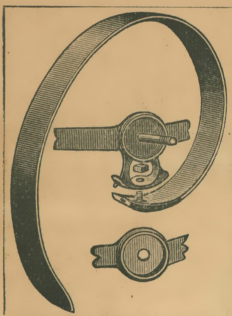
Buffalo Pitts

FARM
Machinery.

THE PITTS
AGRICULTURAL WORKS.

BUFFALO, N. Y.

FOR SALE BY



**THIS CUT illustrates the
PITTS PATENT
FRACTIONAL
PIVOTING
TOOTH HOLDER,**

allowing the adjustment of the entire length of the tooth by only loosening **ONE NUT**, at the same time providing curved runners whereby the harrow frame is held elevated throughout its entire length.

**Note Special Features and
Improvements for 1892.**

We desire to call attention to the many new and special features embodied in it, not found in harrows of other makes. In harrows heretofore used the frame is made to ride upon the ground necessarily meeting all obstructions, such as stones, lumps, stumps, etc., lifting teeth from their work when most needed. In mellow soil the diamonds in frame will carry along the loose soil, weeds, coarse straw, causing the harrow to load, and adding largely to its draft, and greatly impeding its perfect work.

A cause of general complaint is the trailing of the teeth, caused by the harrow not being held square with its line of draft, consequent upon a loose and swinging hitch, which allows either side to fall behind the other, thus throwing teeth in line, or trailing each other and not cutting all the ground between teeth.

A glance at our new elevated bar harrow will convince any practical farmer that we have at once overcome all these objections hitherto urged against floating harrows. Our elevated frame allows the harrow to ride freely over the surface, and the teeth are held in position and made to perform their work as positively as upon the mounted or wheel harrows, thus increasing its effectiveness and lightening its draft fully one-third, as actual tests will prove.

CONSTRUCTION OF FRAME.

Being constructed of spring steel bars running diagonally lengthwise of harrow, forms a diamond truss frame, and the meeting of the bars when placed together forms bearings for tooth holder, producing a diamond truss brace of four points of bearing, making the strongest possible construction known of placing bars together, combining lightness with great strength.

ELEVATION OF FRAME.

By our new pivoting tooth holder having depending arms several inches below frame, we accomplish the elevation of the frame bars throughout their entire length, and by securing tooth upon lower end of said arms by broad, flat, ribbed shoes, we protect the wearing of tooth, and also provide curved runners for the harrow to ride upon, thus preventing its settling in the softest muck soils, and allowing it to ride freely over stony, lumpy soil.

PIVOTAL TOOTH HOLDER.

By our new pivoting tooth holder we allow the wearing up of entire length of tooth, as by simply loosening one nut the tooth holder is allowed to rotate upon the beveled flange of the two side caps to any desired point, and by tightening nuts said caps are forced into sides of central holder, wedge like, thus providing eighteen inches of wedge friction or equal to nearly one-half length of tooth, making it impossible for tooth to slip. By the *frictional holder* the tooth can be adjusted to a hair's breadth, a decided advantage over ratchet holders, as the size of the cog and the distance of point of tooth from pivotal center will not admit of less than one-half to two inches adjustment, making it impossible to hold teeth to an even depth, a defect fatal to ratchet holders.

TEETH TRAILING.

By our new triple brace hitch, where, by placing guy or stay chains from point of harrow to ends of whiffletree bar, we obviate the usual swinging of harrow from side to side, thus preventing the teeth from following each other, and also controlling the point of harrow in preventing its pitching forward and downward, and making harrow run level on any soil while each tooth is made to do its share of work, greatly increasing the effectiveness of the harrow by a very simple device.

BOLT HEADS WEARING.

No bolts are below frame to wear off and get loose, and by our peculiar construction, spring tension is thrown upon each bolt, thus preventing the loosening of the nuts.

WE FULLY GUARANTEE

all dealers and farmers who handle or use our harrows against royalties or infringements, as our Harrow is licensed by all the patents owned by the National Harrow Co.

Any farmer can see at a glance the benefit and durability of our elevated frame, as well as our pivoting tooth adjustment and our new and improved hitch, and the general construction of our harrow as compared to other makes. A trial will convince the most skeptical that we have the finest harrow yet invented, and the enormous sales of last year, and the flattering testimonials of our customers prove our harrow unrivaled for lightness of draught and the greatest effectiveness in all kinds of soil. With our new lock tooth lug, ribbed shoes and extra heavy bolts and lock nuts, our harrow as improved for 1892, will prove itself the peer of them all for strength and durability.