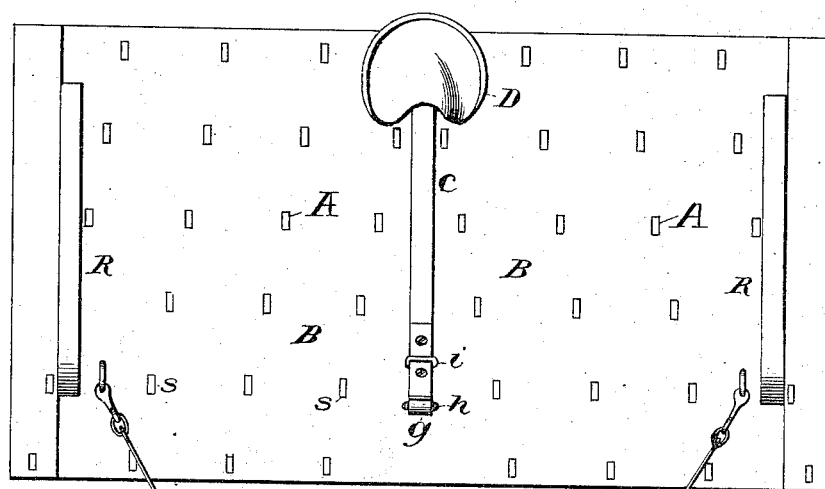
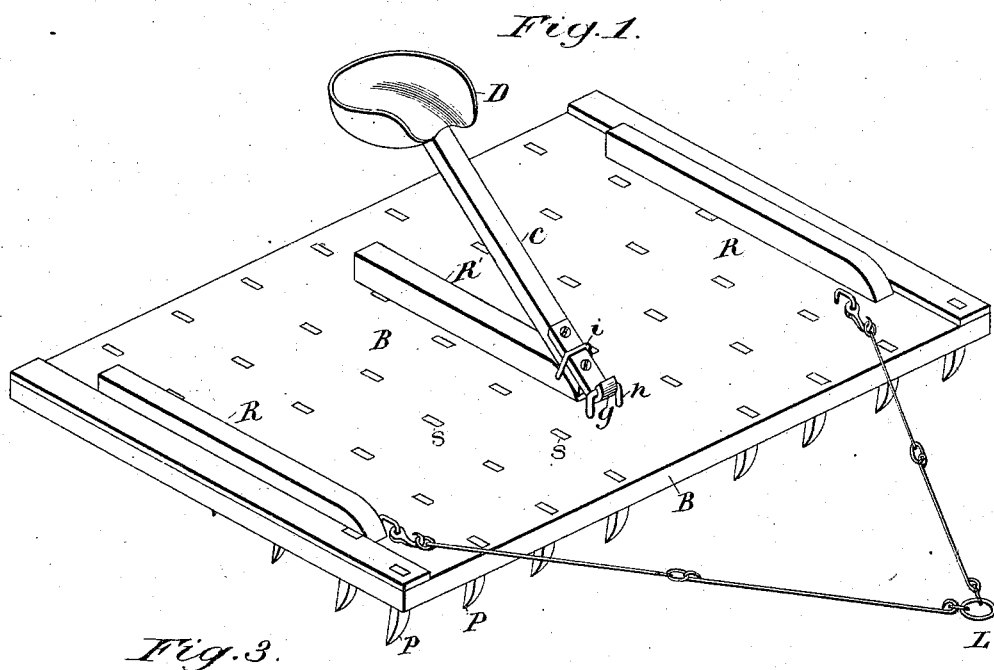


(No Model.)

P. MOUGEY.  
RIDING HARROW.

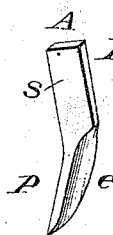
No. 305,529.

Patented Sept. 23, 1884.



Witnesses:

H. B. Swartz  
A. Low



Inventor,  
Peter Mougey

# UNITED STATES PATENT OFFICE.

PETER MOUGEY, OF STERLING, OHIO.

## RIDING-HARROW.

SPECIFICATION forming part of Letters Patent No. 305,529, dated September 23, 1884.

Application filed March 10, 1884. (No model.)

### *To all whom it may concern:*

Be it known that I, PETER MOUGEY, a citizen of the United States, residing at Sterling, in the county of Wayne and State of Ohio, have invented a new and useful Riding-Harrow, of which the following is a specification.

My invention relates to riding-harrows; and it consists of the novel construction of a harrow having a closed platform provided with rearwardly-curved knife-teeth, in combination with an improved detachable seat-standard and inverted runners, all as hereinafter fully set forth.

I am aware that harrows constructed with a closed platform have been heretofore used; also, that rearwardly-curved knife-teeth, a detachable seat-frame, and inverted runners are not new, and I do not claim such, broadly; but heretofore such devices have either been constructed in a different form, or have been used severally in connection with certain other devices not herein specified.

It is the object of my invention to improve and combine these several features, as hereinafter set forth, so as to provide a riding-harrow of simpler construction, lighter draft, and better adapted to pulverize the soil than harrows heretofore used, and provide a better method of attaching the seat-standard, and adapting the harrow to be used upside down. I attain these objects by constructing the harrow as illustrated in the accompanying drawings, in which similar letters of reference indicate like parts.

Figure 1 is a view in perspective of a harrow embodying my invention. Fig. 2 is a side view of one of my improved knife-teeth for the harrow. Fig. 3 is a top view of the harrow, showing my improved method of arranging the knife-teeth in the harrow-platform.

Referring to the drawings, B is the platform or frame, which is made of plank closely fitted together, so as to present an even continuous surface on both sides. It is provided with low inverted runners R R across the top at each end of the platform; also one across the middle, R'. These runners help to stiffen the platform and hold it together, and are especially utilized when the harrow is

turned upside down upon them to haul it from place to place, serving as a sled for such purpose. The central runner, R', is shorter than the end runners, and the slant which forms the runner-point forms a support for the seat-standard c, which rests against it, and is secured in such position by the hook g, which engages the staple h, while lateral movement of the seat-standard is prevented by the overlapping band-stop i, which engages the sides of the runner R'.

D is the seat or saddle, which is attached to the standard c in the usual way. By this arrangement the seat and standard c may be readily detached from the platform to permit the harrow to be turned upside down by throwing them forward, when the hook becomes free from the staple.

A, Fig. 2, is one of the knife-teeth of the harrow. It is provided with a shank, s, to secure it to the platform. The projecting part of the tooth P is made like a knife-blade, and has a rearwardly-curved edge, e, whereby it is enabled to cut through sods and clods without tearing them up or catching upon any obstructions whatsoever. These knife-teeth are set in parallel rows across the platform, but slightly diagonal with the frame, and so that the rows of teeth on each side of the center converge rearwardly toward the rows on the opposite side, as shown in Fig. 3, so that the teeth of each row will follow each other in close succession, and the last tooth of each row be followed by the first tooth of the next adjacent row of teeth, each tooth cutting an independent furrow, and the furrows equidistant (about one inch) from each other.

By my arrangement of knife-teeth thin slices are successively cut from the clods without turning them up or rolling them about, as heretofore, and thereby suffering them to escape being pulverized. The platform B, having a closed and even surface underneath, presses the clods and sods into the soil while the slicing and pulverizing is being accomplished by the knife-teeth, as aforesaid. By this arrangement and combination the harrow is of lighter draft than harrows heretofore used, is adapted to be ridden, and may

be loaded to make it heavier, when necessary.

Having thus fully described my invention, what I claim as new, and desire to secure by  
5 Letters Patent, is—

In a harrow, the combination, with the closed platform B, provided with knife-teeth A, of the detachable seat-standard c, provided with lateral stop i and hook g, the staple

h, and the inverted runners R R', substantially as set forth.

In testimony whereof I hereunto set my hand and seal.

PETER MOUGEY. [L. S.]

Witnesses:

M. L. SMYSER,  
H. B. SWARTZ.