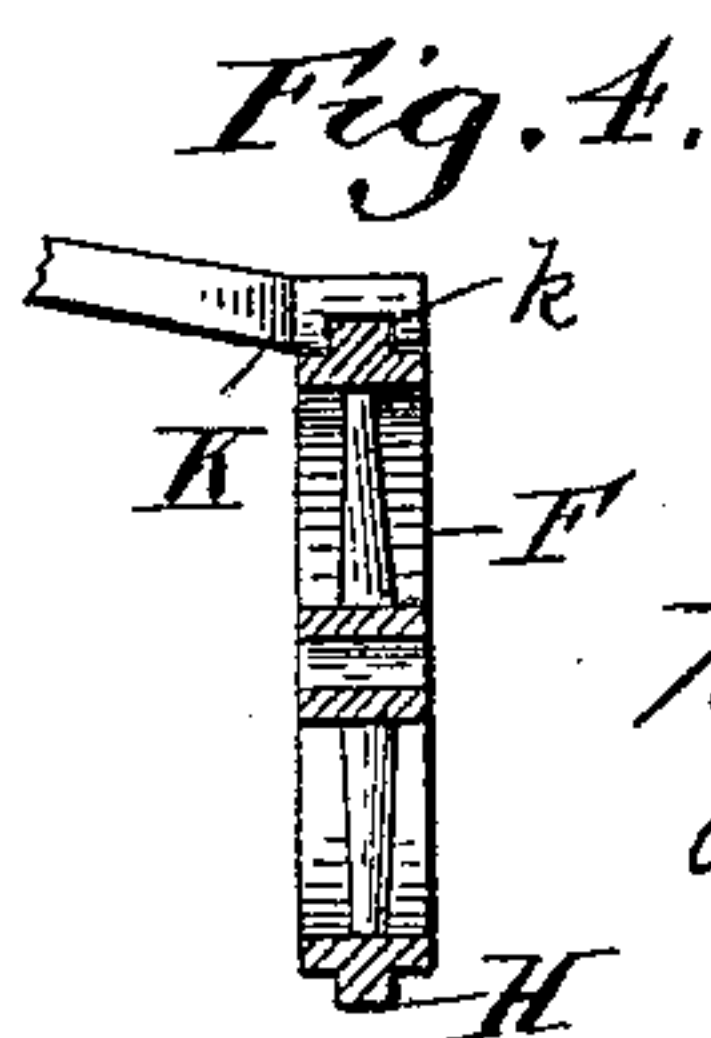
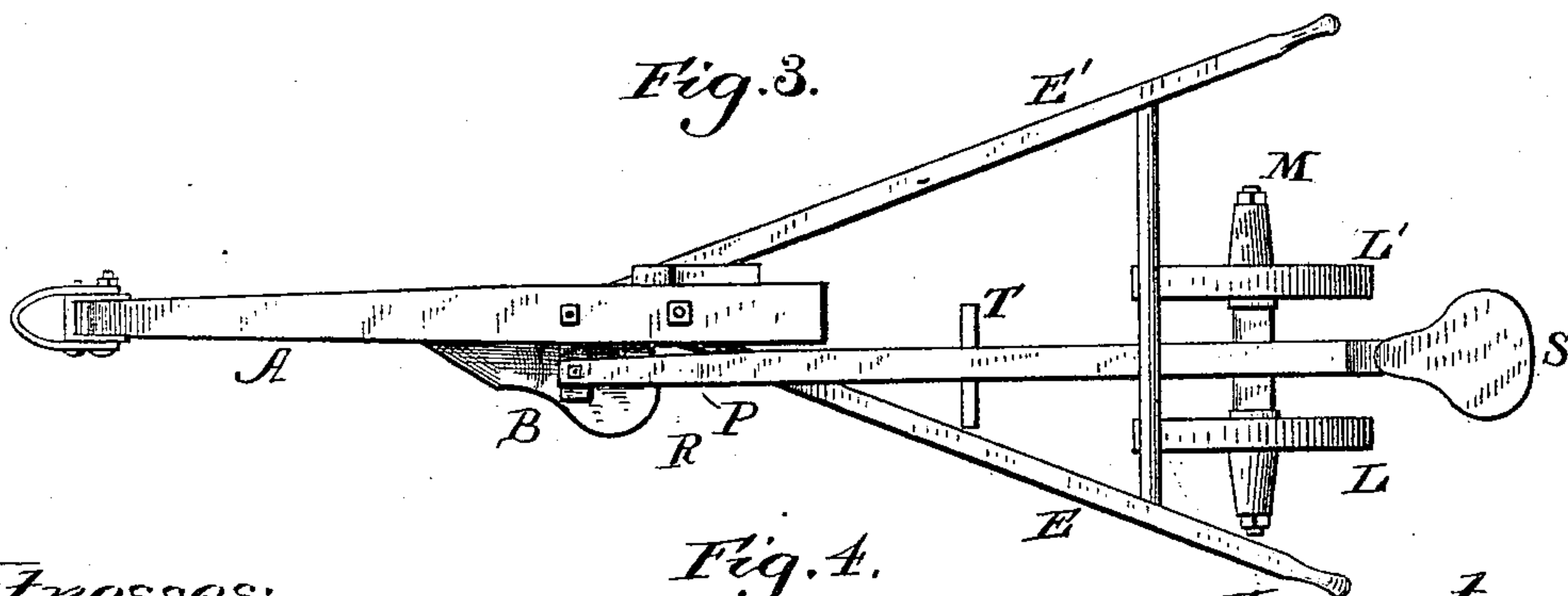
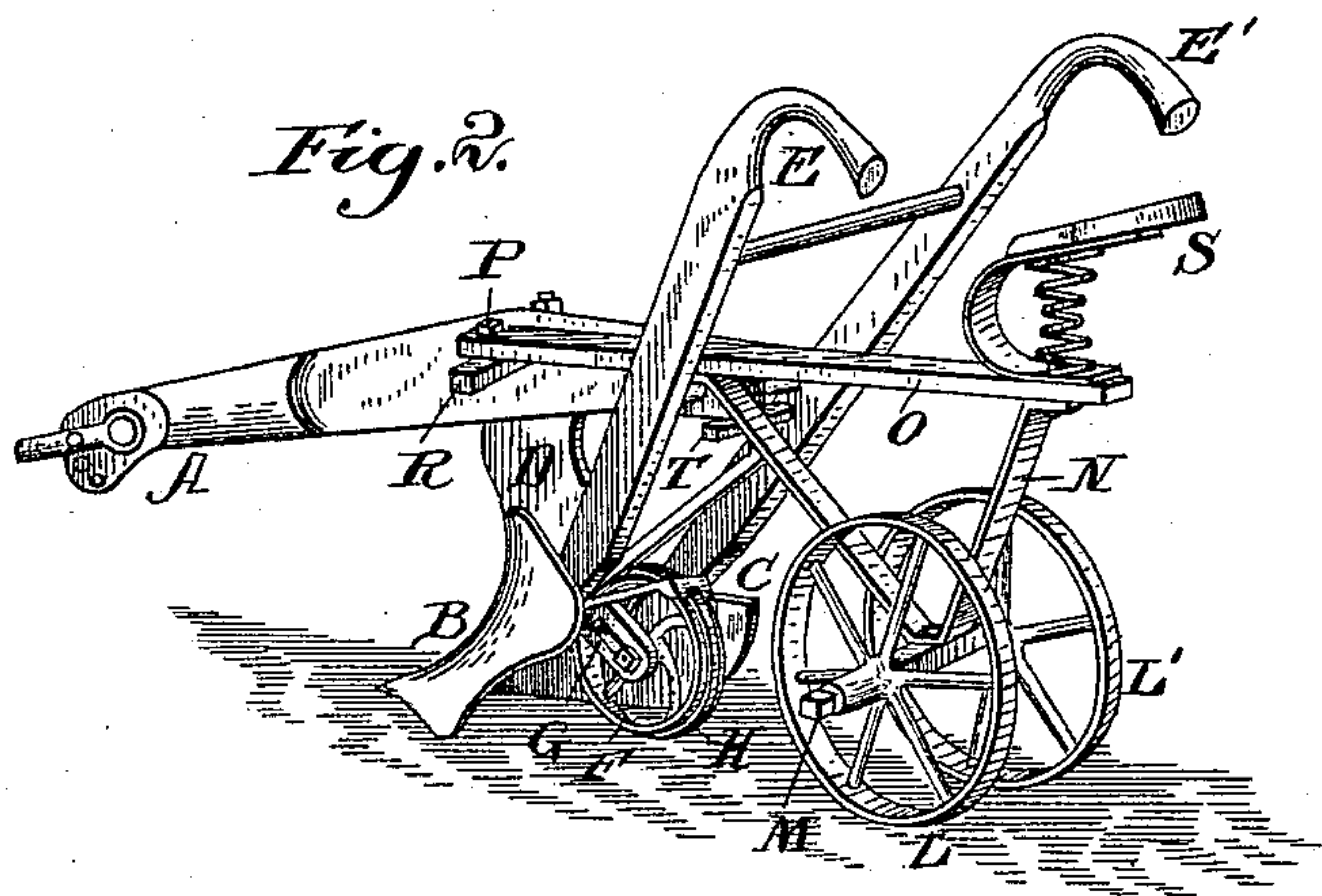
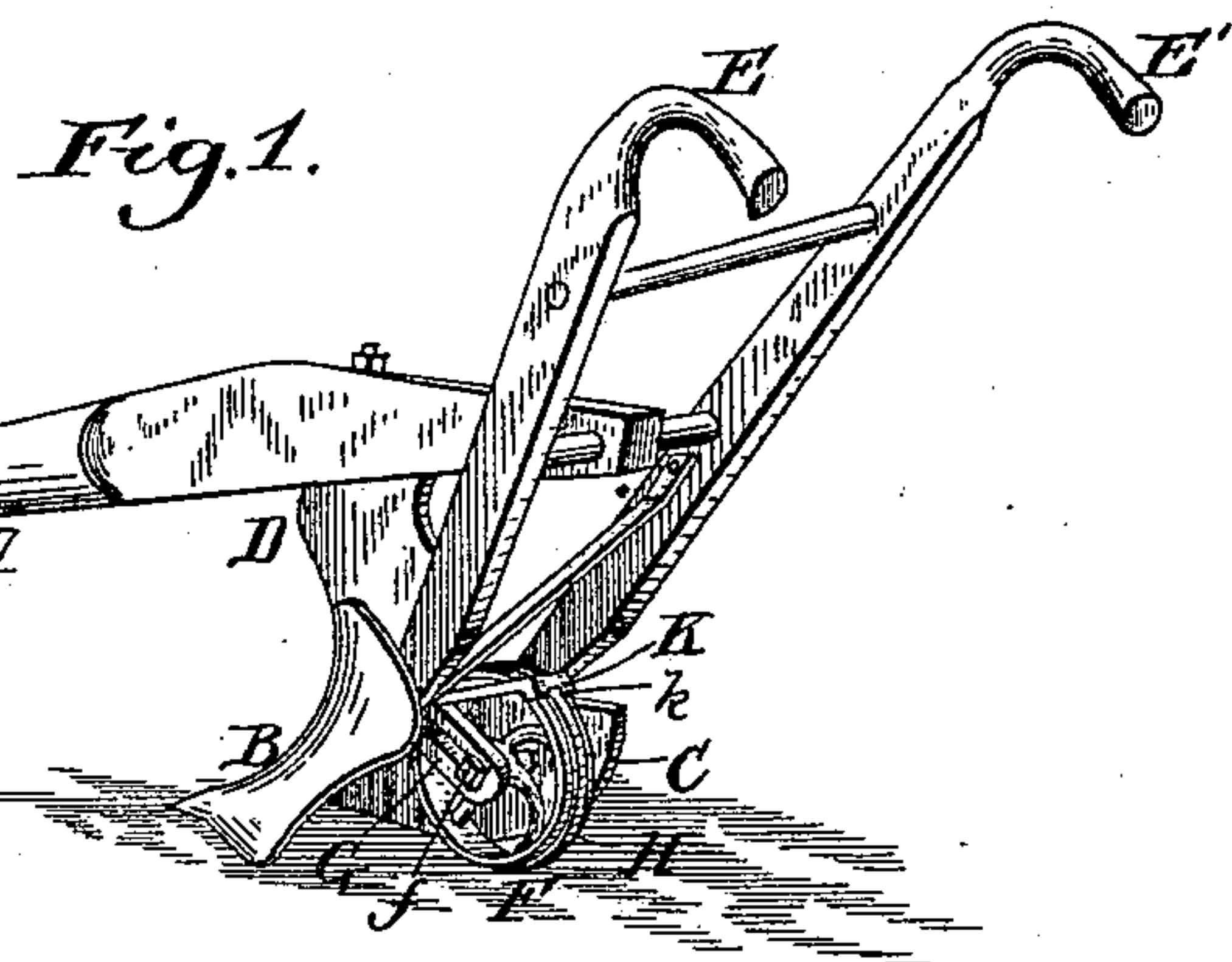


(No Model.)

T. B. FAGAN.
ATTACHMENT FOR PLOWS.

No. 470,886.

Patented Mar. 15, 1892.



Witnesses:

J. B. McGirr.
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Inventor.
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UNITED STATES PATENT OFFICE.

THOMAS B. FAGAN, OF VAN WERT, OHIO.

ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 470,886, dated March 15, 1892.

Application filed November 11, 1891. Serial No. 411,612. (No model.)

To all whom it may concern:

Be it known that I, THOMAS B. FAGAN, a citizen of the United States, residing at Van Wert, in the county of Van Wert and State of Ohio, have invented certain new and useful Improvements in Attachments for Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to attachments for plows; and the objects of the invention are, first, to provide a simple and cheap attachment which can be easily applied to any hand-plow to make the same run lighter and be more easily handled than would be possible without such attachment, and, secondly, to provide a means which can be readily attached to any hand-plow to convert the same into a wheeled plow.

With these ends in view the first part of my invention consists in the combination, with a plow of ordinary construction, of a guide-wheel arranged between the mold-board and landside of such plow and provided with an annular raised or projecting rib or ring.

The second part of my invention consists of the combination, with a hand-plow, of an auxiliary or supplemental frame supported on carrying-wheels and adapted to be pivotally connected to the beam of the plow, and a seat or saddle mounted on said auxiliary or supplemental frame.

My invention further consists of the peculiar construction and arrangement of parts, as will be hereinafter more fully pointed out and claimed.

I have illustrated my improvements in the accompanying drawings, in which—

Figure 1 is a perspective view of a hand-plow having my improved guide-wheel attached thereto. Fig. 2 is a similar view of a hand-plow converted into a wheel-plow. Fig. 3 is a top plan view of the same, and Fig. 4 is a detail view of the guide-wheel.

Like letters of reference denote corresponding parts in the several figures of the drawings, referring to which—

A designates the beam of a hand-plow; B, the mold-board; C, the landside; D, the supporting-posts, and E E the handles. All of these parts may be of any well known or de-

sired form and size and are connected together in the ordinary manner.

F designates a guide-wheel, which is mounted on a shaft or axle *f*. This shaft or axle *f* is preferably journaled in the landside C of the plow and an arm or ear G attached at one end to the mold-board B.

The wheel F is arranged so that its rim lies in a horizontal plane below the plane of the lower edge of the landside, and said rim is provided with an annular raised ring or rib H. A scraper K is arranged so as to contact with the upper portion of the wheel F, said scraper having a notch *k* cut in its lower edge, in order that such lower edge may contact with the surface or rim of the wheel F on both sides of the rib H.

In using a plow provided with my improved guide-wheel, the rib H thereon sinks into the earth in the center of the furrow and keeps the plow in line and prevents the landside from bearing too hard against the solid ground, thereby reducing the friction and making the plow run much lighter than plows of ordinary construction. The wheel F is also very useful in turning the plow at the end of a furrow, as the plowshare can be elevated and raised above the surface of the ground by depressing the handles E E', the wheel F serving as a fulcrum.

In Figs. 2 and 3 I have illustrated my improved attachment for converting any ordinary hand-plow into a wheel-plow. Referring particularly to these figures, L L' designate carrying or ground wheels, which are fitted on the ends of an axle M. A curved or angular brace N is attached near its center to this axle, and the upper free ends of such brace are connected by a beam or bar O. The forward end of the bar or beam O is pivotally attached by means of a pin or bolt P to a laterally-projecting stud or arm R, which is in turn attached to the plow-beam A, preferably at the point where the said beam and the post D are united. It will be noticed that the bar or beam O extends centrally between the handles E E', and on the rear portion of said bar is mounted a seat or saddle S. The saddle S is so arranged that the plow-man can easily grasp the handles E E', and thus control the movement of the plow as well as though following the same in the ordinary

manner. T designates a bar or bracket, which is centrally attached to the forward arm of the brace N and projects on both sides thereof to form foot-rests. This auxiliary or supplemental frame, consisting of the carrying-wheels mounted on an axle and the beam or bar supported from said axle, is shown as used in connection with a plow having a guide-wheel F, as hereinbefore described, and this is the preferable construction, for by using the guide-wheel the plow is more easily operated or handled; but though I have shown the auxiliary or supplemental frame used with a plow provided with the guide-wheel F, yet I do not limit myself to this special form, as I am aware that good results may be obtained by using such frame with a common plow and omitting the guide-wheel.

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

1. The combination, with a plow, of the ear or hanger attached to the inner side of the mold-board and projecting beyond the rear

end thereof, an axle having its ends journaled in said hanger and the landside of the plow, and a guide or pivot wheel carried by the axle and provided with a central annular raised portion or ridge, substantially as and for the purpose set forth.

2. The combination, with a plow, of a stud or arm attached to the plow-beam and projecting laterally therefrom, a supplemental bar or beam pivotally connected to said projecting arm and extending parallel to the beam of the plow, a pair of carrying-wheels mounted on a suitable axle, a curved or angular brace having its ends connected to the supplemental beam and connected at an intermediate point to the axle, and a seat or saddle carried by the supplemental beam, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS B. FAGAN.

Witnesses:

J. C. ALLEN,

J. W. ALLEN.