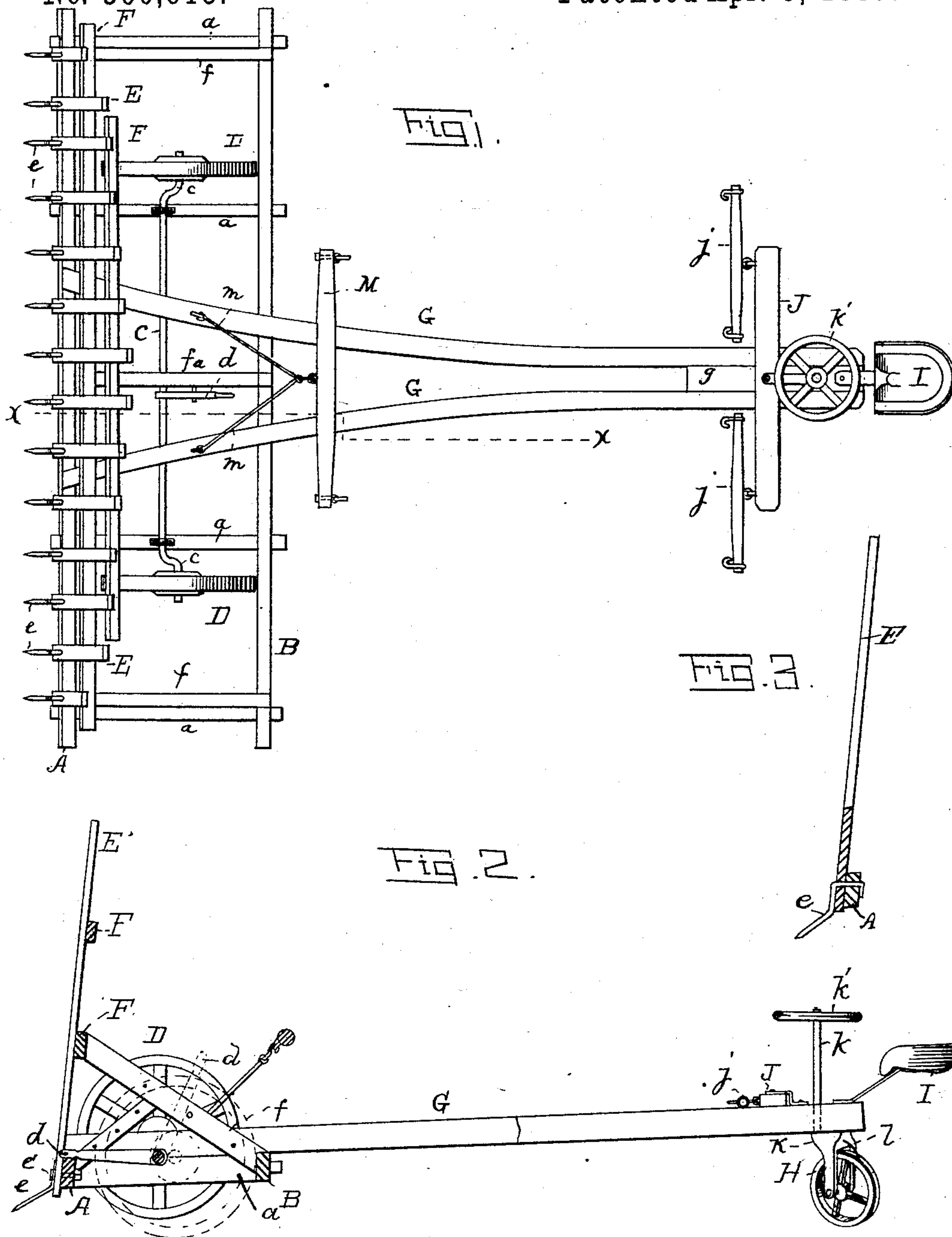


(No Model.)

I. B. PARSONS.
STRAW BUCKER.

No. 360,615.

Patented Apr. 5, 1887.



Witnesses
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UNITED STATES PATENT OFFICE.

ISAAC B. PARSONS, OF LARIMORE, DAKOTA TERRITORY, ASSIGNOR OF ONE-THIRD TO WILLIAM H. FELLOWS, OF SAME PLACE.

STRAW-BUCKER.

SPECIFICATION forming part of Letters Patent No. 360,615, dated April 5, 1887.

Application filed February 10, 1886. Serial No. 191,463. (No model.)

To all whom it may concern:

Be it known that I, ISAAC B. PARSONS, a citizen of the United States, residing at Larimore, in the county of Grand Forks and Territory of Dakota, have invented certain new and useful Improvements in Straw-Buckers; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to that class of machines known as "straw-buckers;" and the novelty consists in the details of construction and combination of parts, more fully hereinafter set forth, and specifically claimed.

In the drawings, Figure 1 is a plan view of my improved bucker. Fig. 2 is a section of the same on the line *xx* of Fig. 1. Fig. 3 is a vertical sectional view of a modified form of "bucking-frame."

The object of the invention is the construction of a device for removing the straw which accumulates behind the thrashing-machine. Heretofore the straw has been removed by a "bucking-pole" having a horse attached to each end. Such arrangement has been found objectionable, in that the pole will not always take the load at the first attempt, and the management of two horses at such a distance apart is very difficult. These objections are avoided by my device, which is driven up against the heap of straw and pushes it in advance away from the thrashing-machine, it being guided by a caster-wheel manipulated by the driver riding on the machine. This device takes the load at once, and may be operated by a single horse walking in the rear of the bucker.

The frame consists of front and rear bars, A and B, joined by cross-bars *a*. A shaft or axle, C, is mounted in the intermediate cross-bars, *a*, and its ends terminate in crank-arms *c*, on which the wheels D are mounted. A lever or handle, *d*, is secured to the axle, to turn the same in its bearings to regulate the height of the frame from the ground, as indicated in dotted lines, Fig. 2.

Slats E are attached to the forward side of the bar A, and are spaced at intervals to form

the bucker. These slats have metal fingers *e* secured to their lower ends to gather the grain. The bolts or rivets *e'*, used to secure the fingers in place, may also serve to fasten the lower ends of the slats to the bar A; or the ends of the fingers may be bent at right angles to the main portion and extended through the slot and bar, and secured in any well-known manner by a nut or pin or by upsetting the end projecting beyond the bar, as will be readily understood. The slats are braced, and have their relative distances apart fixed by bars F. Stay-bars *f* extend from the rear bar, B, in an upwardly-inclined direction and unite with the brace F, and serve to steady the bucker against the pressure of the accumulating grain during the operation of the machine.

The poles consist of two bars, G, centrally attached to the frame and curving slightly toward each other, and projected rearwardly from the rake, and united at their outer ends, which have a block, *g*, interposed between them to fill the space and afford a means of attachment for the caster-wheel H, seat I, and double-tree J. The latter is secured in place by the usual clip, and is provided at each end with single-trees *j*. The seat projects beyond the end of the pole and between it and the double-tree. The shank *k* of the caster-wheel support K projects upward through the block *g* a sufficient distance to be within easy reach of the seat. Its upper end has a hand-wheel, *k'*, by which the caster may be turned to give proper direction to the implement.

The caster-wheel H has a groove around its edge, which permits it to sink deeper into the soil and obtain a better purchase in its steering operations. A spring-finger, *l*, projects from the rear of the caster-support, and its free end rests in the groove in the caster-wheel and serves as a cleaner or scraper for removing all foreign substances which may become lodged therein.

A neck-yoke, M, is attached to the forward portion of the pole by braces *m*, extending from the bars G to the center yoke.

In practice the horses are hitched to the single-trees *j* in the rear of the bucker and push the latter in advance of them, so to speak. The neck-yoke being attached to the breeching, in case the horses back it is manifest that

the machine will be withdrawn from its work, direction being given to its movements by the caster-wheel.

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

1. The combination, with the front cross-bar of the frame, of the slats and the fingers having their upper ends bent substantially at
10 right angles and secured to the lower ends of the slats, and serving to fasten them to the cross-bar, substantially as set forth.

2. A straw-bucker comprising the following elements, in combination: the frame, the
15 buckler secured to its front, the pole, consisting of the two bars G, curving toward each other, projected rearwardly therefrom, the neck-yoke and braces, the double-tree, the

seat, and the caster secured to the outer end of the pole, as shown, the axle mounted in 20 cross-bars of the frame and terminating at each end in crank-axle arms, wheels supported on said arms, a lever secured to the axle for rotating it to adjust the height of the buckler, the brace f, having a series of openings in its side, 25 and the pin a, adapted to be inserted in any one of said openings and hold the lever in an adjusted position, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in 30 presence of two witnesses.

ISAAC B. PARSONS.

Witnesses:

H. D. BROOKE,
ROBERT L. BRUEN.