E. S. WEBSTER.
Power-Anchor.

No. 221,131. Patented Oct. 28, 1879.

Fig. 1.

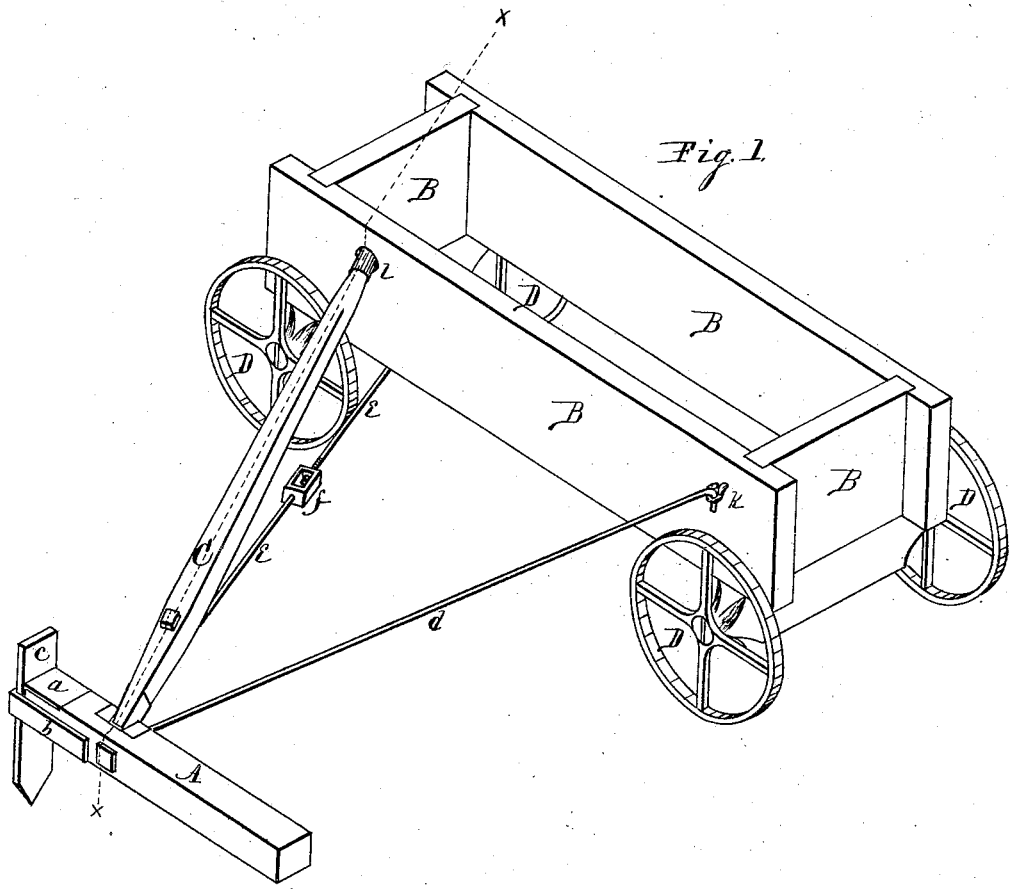


Fig. 2.

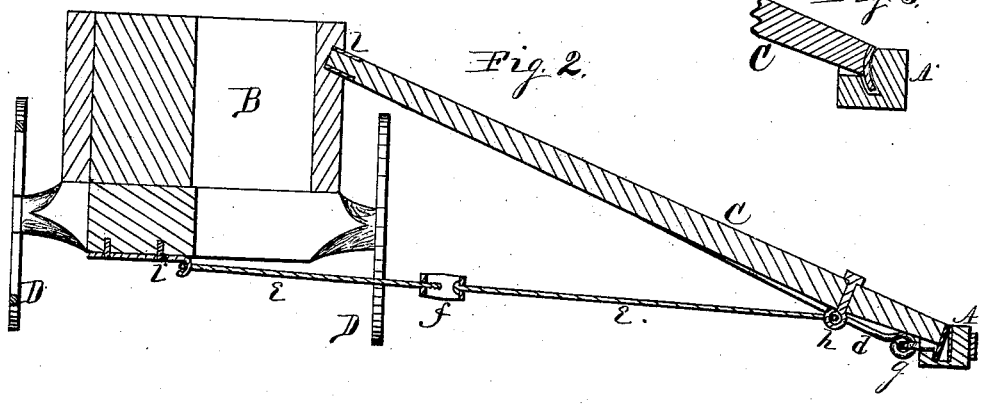
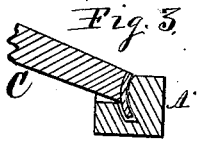


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

EDWARD S. WEBSTER, OF DURAND, ILLINOIS.

IMPROVEMENT IN POWER-ANCHORS.

Specification forming part of Letters Patent No. **221,131**, dated October 28, 1879; application filed July 2, 1879.

To all whom it may concern:

Be it known that I, EDWARD S. WEBSTER, of the town of Durand, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Power-Anchors, of which the following is a specification.

This invention relates to the anchorage of horse-powers for thrashing-machines and other similar portable powers.

The object of this invention is to improve the power-anchor secured to me by the issue of Letters Patent No. 214,217, dated April 8, 1879, to obtain a better adaptation for general purposes and render it more efficient in its different applications. To this end I have invented and constructed the anchor represented in the accompanying drawings, in which—

Figure 1 is an isometrical representation of a mounted horse-power frame with my improved anchor thereto attached, and of which Fig. 2 is a vertical transverse section on dotted line *x*. Fig. 3 is a vertical transverse section, showing a modification of the foot-connection of the brace with the anchor-beam.

In the figures, A represents an anchor-beam of suitable size, and in this instance it is made of wood, having its end cut at right angles with its lengthwise axis, and is bound with a metallic plate, *a*, which embraces its square end and its upper and lower sides, and is fixed in place thereon by bolts or other suitable means.

b is a metallic stirrup, made from bar material, fitted to embrace the edges of the square end of the anchor-beam, to which it is firmly fixed by means of bolts, rivets, or other wire in such a manner as to freely admit a suitable anchor-stake between its outer loop or stirrup end and the end of the anchor-beam.

c represents the anchor-stake, preferably made of iron, pointed in a suitable manner, and of proper size to pass through the loop between the stirrup-bar *b* and the end of the anchor-beam, through which it is driven into the ground to fix the beam in place.

d is a tension-brace, made from rod or bar material, and is attached at one end by a suitable link or swivel-connection to the anchor-beam, as at *g*, and having its free end fitted to connect with the power-frame, which is represented at *k*.

C represents a push-brace of proper dimensions to resist the force exerted upon it by the power when in use. Its ends are fitted with footings, one of which is adapted to engage the power at a proper point, and the other to engage the anchor-beam at or near the connection of the tension-brace therewith.

e represents a tension-brace made from bar or rod material in two sections, joined to each other by the usual screw-swivel connecting-yoke *f*, employed for the purpose of changing the length of the brace to adapt it to the different situations in which it may be required in anchoring-powers. The ends of this tension-brace are fitted in eye form, one end of which is connected to the outer end portion of the push-brace by a double-eye joint, as at *h*, and its other end engages a hook, *i*, on the under side of the power. In this instance the hook *i* is fixed to the under central portion of the axle-tree of the carriage on which the power is mounted, and is in substantially the same vertical plane of the lengthwise axis of the push-brace.

B is a box-frame, of rectangular form, of greater length than width or height, mounted on carrying-wheels D, which are employed for the purpose of transportation. This box-frame is designed to represent a mounted horse-power frame, employed in this instance for the purpose of showing the connection of my improved anchor with the power.

The free end of the tension-brace *d* is designed to engage the power by means of a detachable hook and eye or other equivalent connection, substantially as represented at *k*, and the power-frame is fitted with a footing to receive the end of the push-brace, which connection is represented at *l*.

In the use of my improved anchor in connection with thrashing-machines or other power to which it may be found applicable, the power being placed in position, the anchor-beam is then put in place and the several braces are connected with the power as above described, and as represented in the drawings; then, by means of the screw-swivel yoke *f*, the several parts are brought under proper tension, which fixes the exact relative position of the anchor-beam. The anchor-stake *c* is then placed in the stirrup-loop of the anchor-beam,

through which it is driven into the ground, which holds the power firmly anchored in position.

The employment of the lengthwise adjustable tension-brace *e*, in connection with the push-brace C, serves to hold the anchor-beam firmly pressed to the ground and to resist any rolling tendency of the power; and these parts, in connection with the tension-brace *d*, produce a reliable single-stake anchor, which in ordinary cases will be found sufficient to fix the power firmly in place when employed on one side only, as represented in the drawings; but, if required, my improved anchor may be employed on opposite sides, or on any or all sides of the power.

I have represented and described my improved anchor in connection with a mounted horse-power; but it is also designed for use in connection with down-powers, portable engines, capstans, and other similar purposes.

I claim as my invention—

1. The combination, with an anchor-beam and anchor-stake for securing the anchor-beam in place, of a push-brace and a lengthwise-adjustable tension-brace connected at one end with the push-brace, substantially as set forth.

2. The combination, with an anchor-beam and tension-brace connected therewith, of a push-brace and a lengthwise-adjustable tension-brace, substantially as and for the purpose hereinbefore set forth.

3. The combination, with an anchor-beam with tension-brace thereto attached, a push-brace, and a lengthwise-adjustable tension-brace, of an anchor-stake, substantially as and for the purpose hereinbefore set forth.

EDWARD STEWART WEBSTER.

Witnesses:

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