

E. SWEET.

Tongue for Hay Loading Machines.

No. 73,474.

Patented Jan'y 21, 1868.

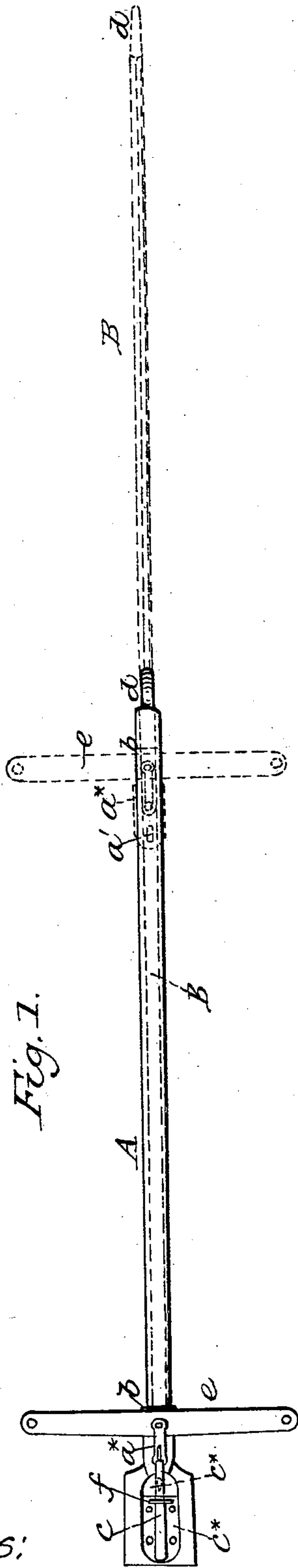


Fig. 1.

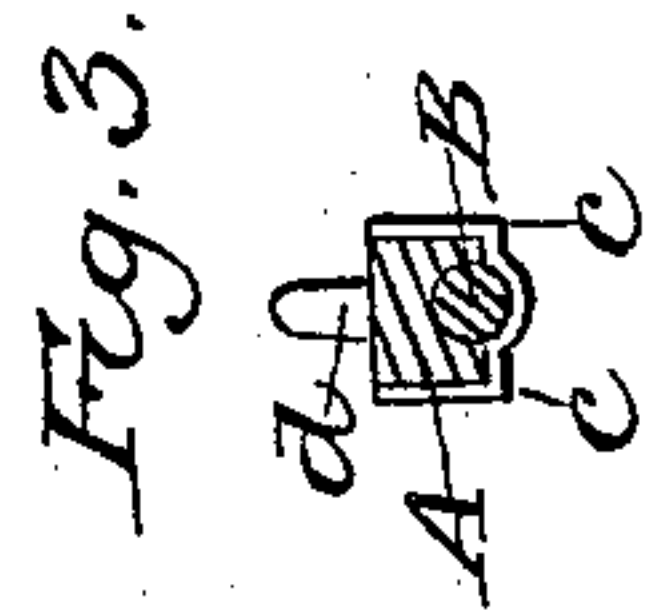
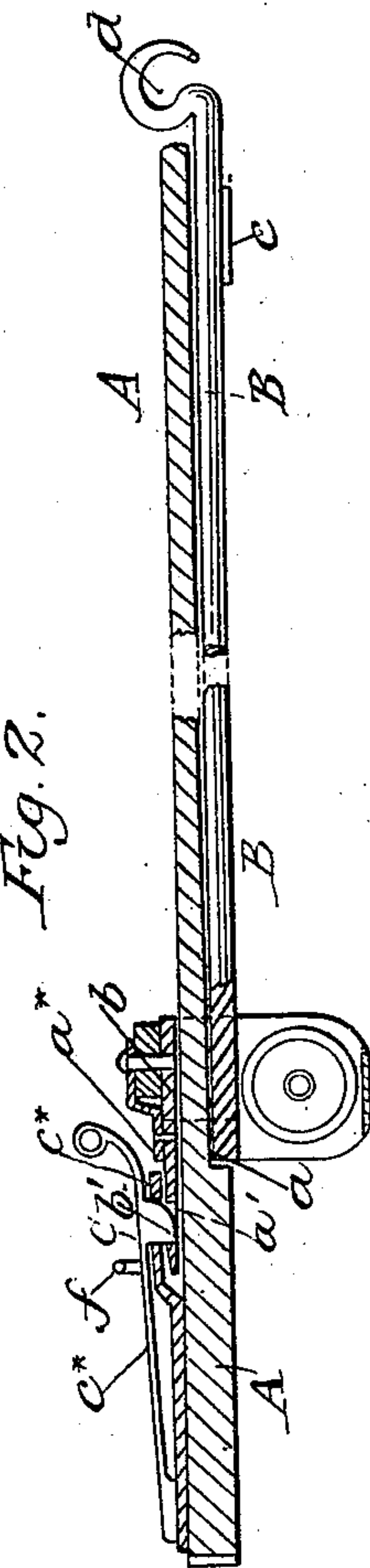


Fig. 2.



Witnesses:

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Geo. Reed

Inventor:

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United States Patent Office.

ELI SWEET, OF WHITNEY'S POINT, NEW YORK, ASSIGNOR, BY TWO DEEDS,
TO T. W. VINCENT, EBER SWEET, AND BENJAMIN J. JONES.

Letters Patent No. 73,474, dated January 21, 1868.

IMPROVEMENT IN TONGUES FOR HAY-LOADING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ELI SWEET, of Whitney's Point, in the county of Broome, and State of New York, have invented certain new and useful Improvements in Sliding Wagon-Tongues; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a portion of this specification, in which—

Figure 1 is a plan view of a sliding wagon-tongue, constructed according to my invention.

Figure 2 is a vertical longitudinal section of the same.

Similar letters of reference indicate corresponding parts in both figures.

In the use of that class of hay-loaders or elevators which are operated by a sliding movement of the supplementary tongue of the vehicle to which they are attached, much difficulty and inconvenience have hitherto been experienced from the swelling of the aforesaid sliding tongue which prevents proper movement of the same within the guides in which it is placed. The principal object of this invention is to remedy this very serious defect, and it consists in a metallic rod placed in a groove, formed longitudinally in the under side of the wagon-tongue, and arranged to slide out therefrom, whereby the desired object is effectually secured. The invention further consists in a slotted plate, guard-plate, and spring-catch, so combined with the aforesaid rod and wagon-tongue, that any casual disengagement of the rod while the wagon is being drawn along is effectually prevented.

To enable others to understand the construction and operation of my invention, I will proceed to describe it with reference to the drawings.

A represents the ordinary tongue of a wagon, which may be attached to such wagon in any suitable manner. A deep longitudinal groove or recess, *a*, is formed in the under side of this tongue A, and extends back nearly to the rear end thereof, as shown more fully in fig. 2. Placed in this groove *a* is a strong and stiff rod, B, made preferably of wrought iron, the said rod being supported and retained in place by means of a strap or band, *b*, attached to its rearmost end, and passed around the tongue A, and by a transverse supporting plate, *c*, attached to the under side of the forward end of the tongue A. The forward end of the rod B is constructed with a hook, *d*; and at the rearmost end of the said rod, pivoted to the band *b* thereof, is the double-tree *e* to which the whiffle-trees are attached. The upper part of the band *b* is extended back, so as to form a plate, *a**, in which is a vertical longitudinal slot, *a'*, into which, when the rod is pushed back or inward, as required in drawing the wagon from place to place, and as represented in fig. 2, is fitted the spur *b'* of a spring-catch, C, attached in any appropriate manner to the tongue A; the said spring-catch being situated above a guard-plate, *c**, with its spur, *b'*, passed downward through a slot in such guard-plate, the latter serving to hold the spur *b'* in proper relation with the slot *a'* of the aforesaid plate *a**. In order to limit the upward movement of the spring-catch just mentioned, in withdrawing the spur *b'* thereof from the slot *a'* as herein-after further set forth, a staple, *f*, is placed astride of and over the same. It is designed to thus raise the spring-catch through the agency of a cord attached to the forward end thereof.

The several parts being in the position shown in fig. 2, and just herein described, the team or horses are attached to the wagon in the ordinary manner, except that the hooked end, *d*, of the rod B, instead of the end of the tongue A, is placed in the ring of the neck-yoke, the hooked form of the said end of the rod enabling it to serve as a hold-back for the tongue. The wagon may then be drawn along in the ordinary manner until it is desired to load the same with hay or other material by means of a fork or other suitable apparatus, worked by a longitudinal movement of the rod B, the downward pressure of the spring-catch preventing the spur *b'* thereof from jolting out or being otherwise accidentally displaced to release the plate *a**, or, in other words, the rod B.

In order to work the aforesaid elevating-device, the wagon is stopped, and the spring-catch C is raised, as hereinbefore set forth, thus releasing the sliding rod B, which is then drawn forward by the team to the position shown in red outline in fig. 1; this forward movement of the rod operating, through a suitable draught-rope, attached to or connected with the rear end of the rod, to elevate the fork, or other device, to lift the hay or other material upon the wagon, which being done, the team is backed to bring the rod nearly to its original position, whereupon the fork or device may be again loaded or supplied preparatory to being again raised in the same manner. When it is required to move the wagon, the rod B is simply brought quite back to its

original position, on which the spur b' of the spring-catch passes into the slot a' of the plate a^* , and securely holds the rod B against the forward strain or draught exerted upon it in drawing the wagon.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The sliding bar B, in combination with the tongue A, draught-bar e , and spring-catch C, when arranged to operate substantially as and for the purpose set forth.

2. The slotted plate a , guard-plate e^* , and spring-catch C, combined in relation with each other and with the sliding rod B and tongue A, substantially as and for the purpose specified.

Witnesses:

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