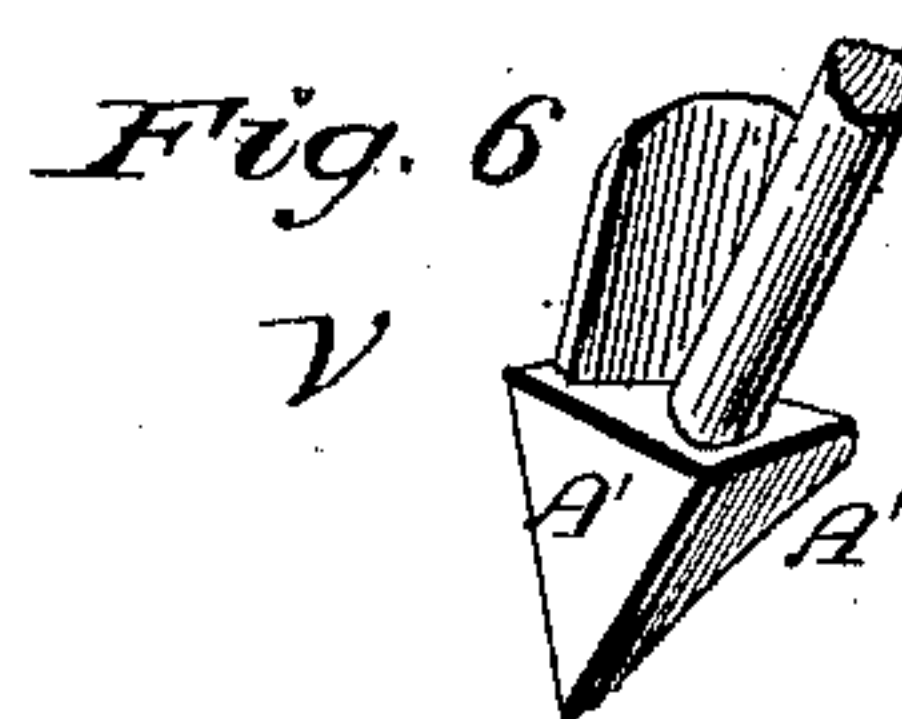
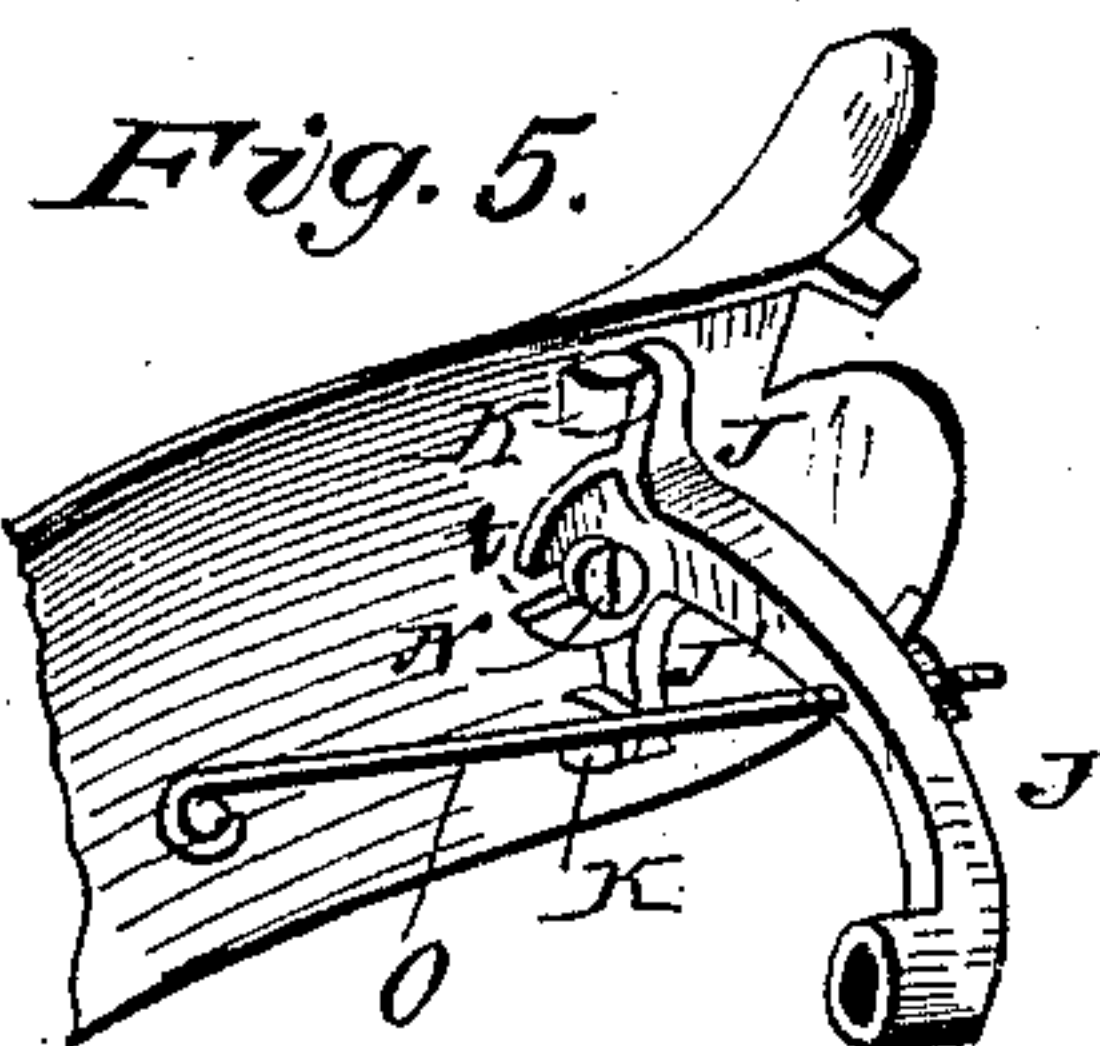
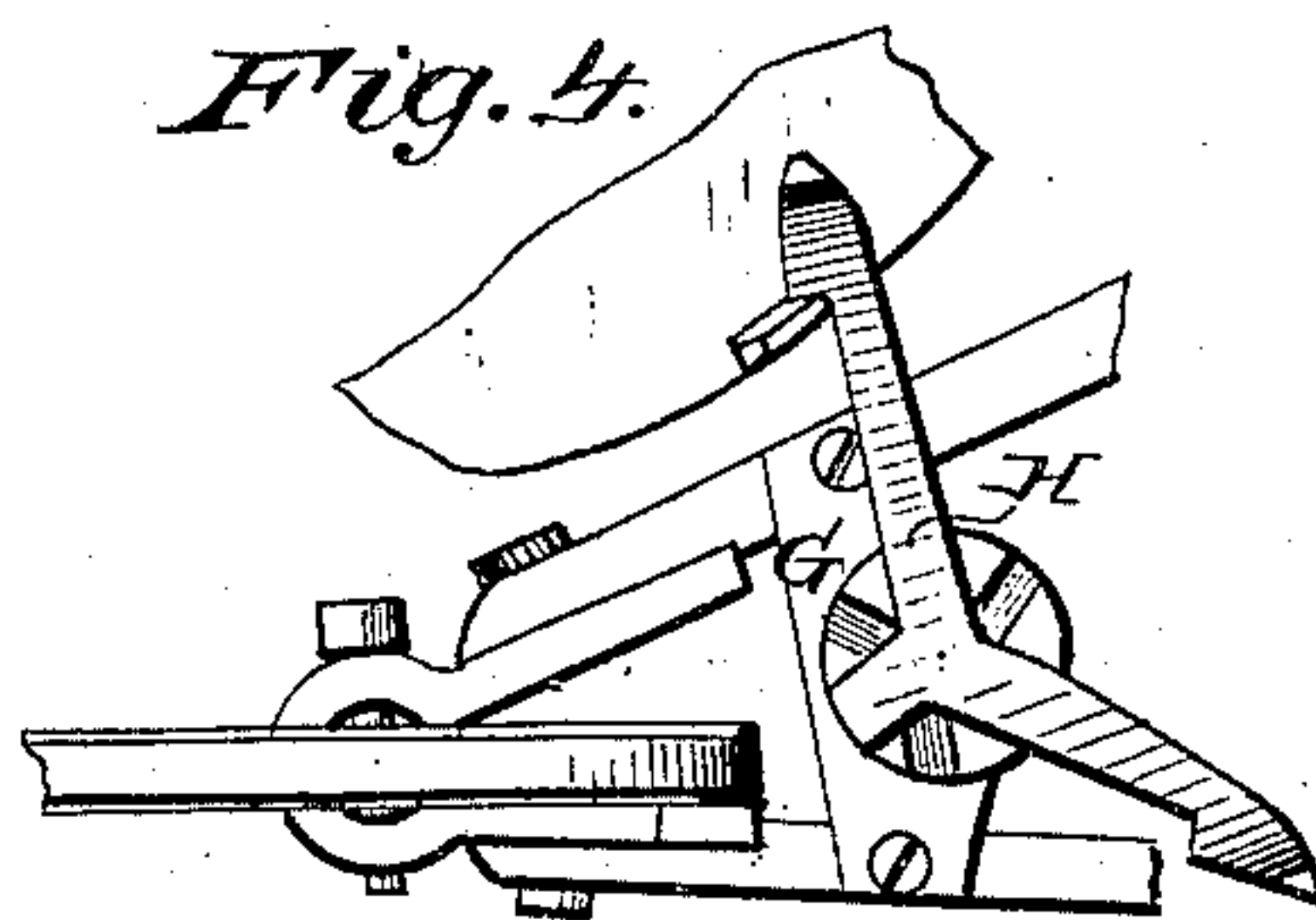
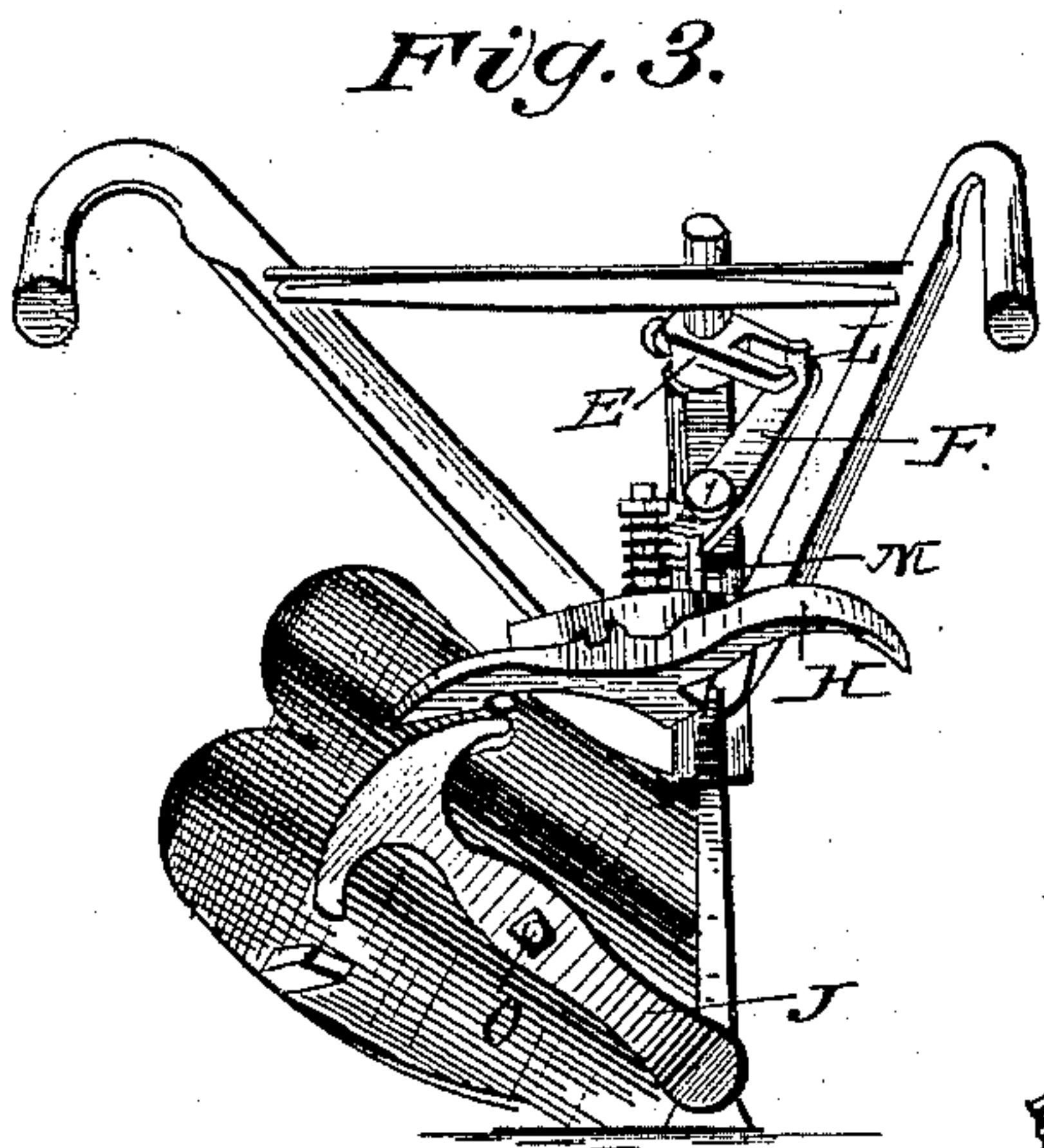
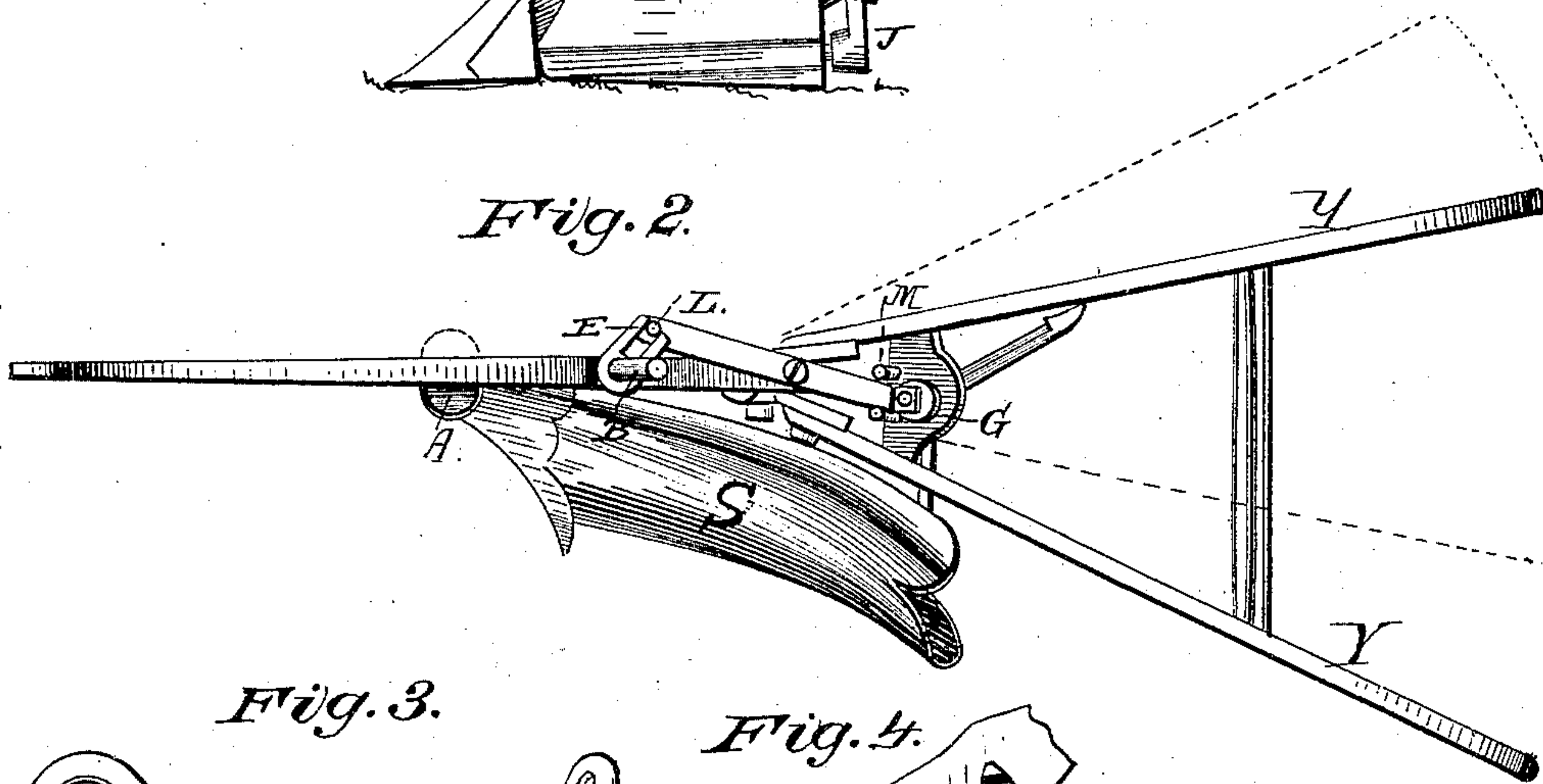
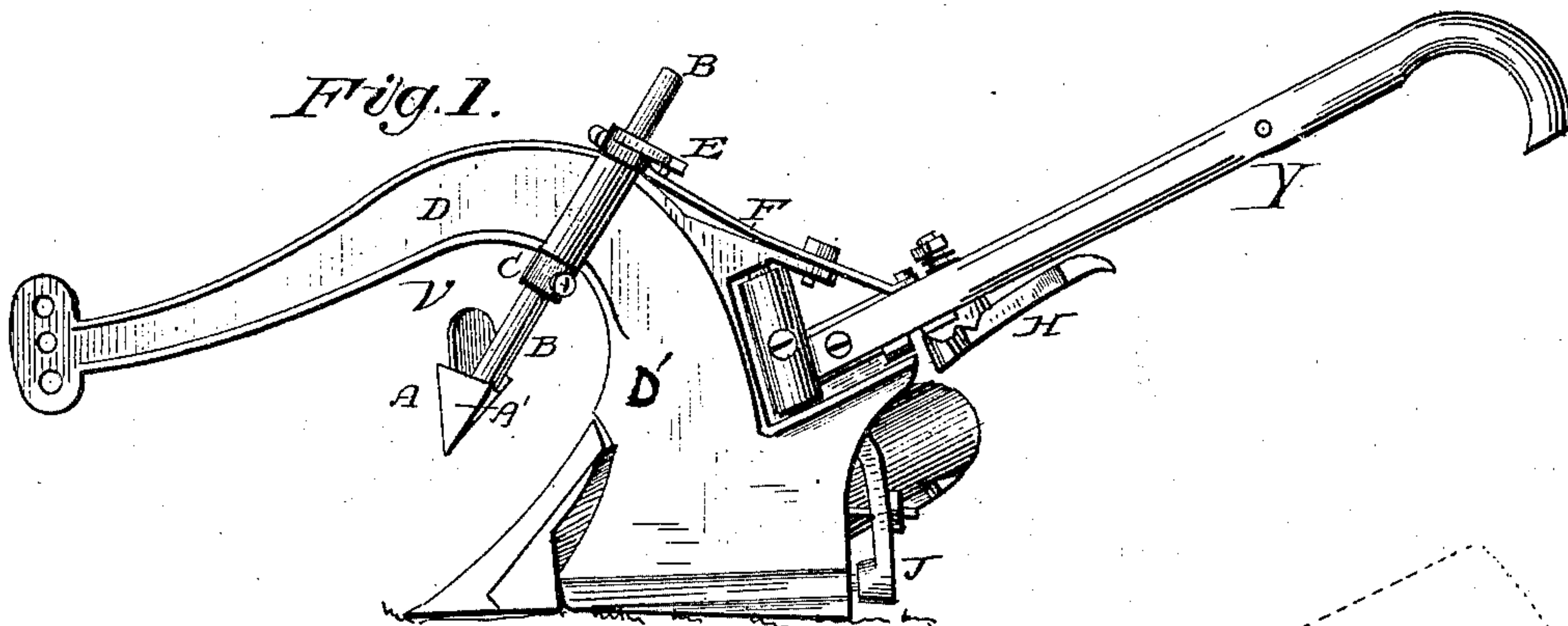


W. STRAIT.
Side Hill Plow.

No. 233,046.

Patented Oct. 5, 1880.



Witnesses:
Fred. G. Dieterich
Daniel Breed

Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM STRAIT, OF ONEONTA, NEW YORK, ASSIGNOR TO CELESTIA L. STRAIT, OF SAME PLACE.

SIDE-HILL PLOW.

SPECIFICATION forming part of Letters Patent No. 233,046, dated October 5, 1880.

Application filed February 14, 1880.

To all whom it may concern:

Be it known that I, WILLIAM STRAIT, a citizen of the United States, residing at Oneonta, in the county of Otsego and State of New York, have invented certain new and useful Improvements in Side-Hill 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 reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention consists in a reversible single mold-board jointer with double-edged point and landsides, and also in other devices, all of which will be fully understood by the following description.

In the drawings, Figure 1 is a land-side view of my plow. Fig. 2 is a top view. Fig. 3 is a rear view. Figs. 4, 5, and 6 are detached views.

In the construction of my improved plow the beam D and landside D' may be cast in one piece, in the usual manner, and the reversible mold-board S is hinged to the landside, as shown in the drawings.

The handles Y are arranged to swing either to the right or left, and this motion also reverses the jointer, and at the same time brings the handles into position, so that the operator may walk in the furrow. Also, this change of position (indicated by dotted lines, Fig. 2) throws the weight of the plow on both handles, and thus enables the operator to lift the plow with more ease.

The new features upon which I now wish to obtain Letters Patent are as follows: First, a reversible single mold-board jointer with double-edged point and landsides, as shown at A, Fig. 1. This jointer is cast separate from the steel shank B, to which it is attached. It has a single mold-board, V, which is reversible, and operates always as a mold-board and never as a landside. The shank B passes through the beam D, and is held in position by means of the set-ring C on the under side of the beam and the slotted arm or clutch E on the upper side thereof.

When the mold-board is reversed it is also necessary to reverse the jointer A. This is accomplished by means of the pivoted lever F at the top of the beam. One end of this lever is connected, by means of a lug, L, to the slotted arm E, and the other end to the lug M on the cross-piece G of the handles. By this arrangement, when the mold-board is reversed and the handles also swung round laterally, the action of the lever F reverses the jointer A, and thus brings the single mold-board into position for the new furrow. The landsides A' of the jointer help to guide the same and prevent the tendency to run to land, as would be the case with jointers having no landside, and the jointer having two edges will wear longer than a single-edged jointer. The double-hooked latch H, which locks the mold-board in working position, also fastens the jointer and handles.

J represents a T-brace, which is pivoted to the heel of the landside, and its arms J' rest against lugs K on the mold-board. It also has a slot, t, for the bolt N, so as to require no machine-work in fitting the casting. This brace is held in place by means of the coupling-bolt O, Fig. 5, thus securely holding the parts together.

Having described my invention, I claim—

1. In a hill-side plow, a reversible jointer having the single mold-board V, adapted to operate as a right or left hand mold-board, substantially as set forth.

2. A reversible single mold-board jointer having landsides substantially as described.

3. The shifting handles and reversible jointer, in combination with the pivoted lever F and slotted arm E, all arranged for operating substantially as set forth.

4. In a plow, the T-brace J, pivoted to the heel of the landside and having the slot t, in combination with the bolt N, lugs K, and the coupling-bolt O, substantially as set forth.

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

WM. STRAIT.

Witnesses:

DANIEL BREED,

FRED. G. DIETERICH.