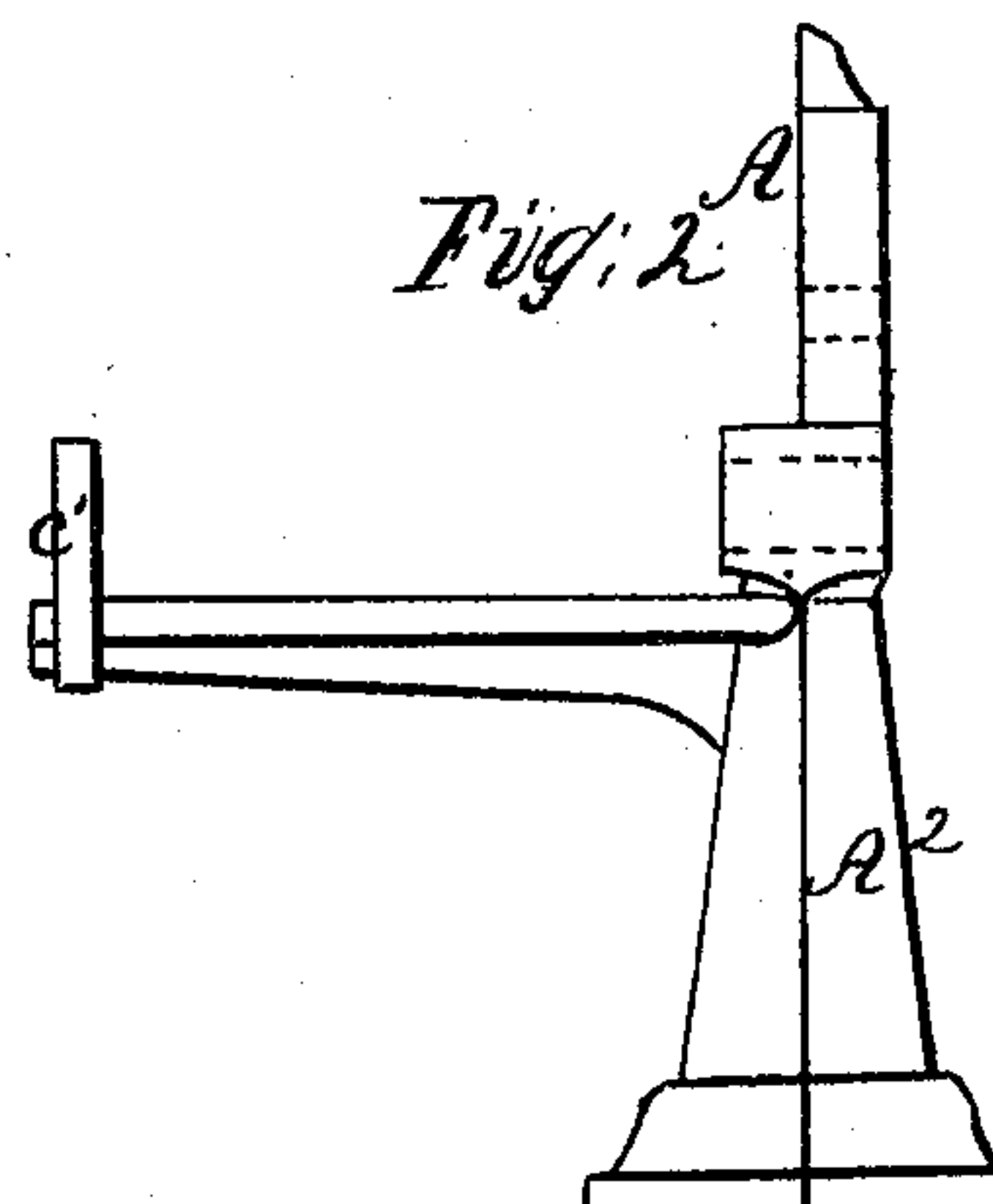
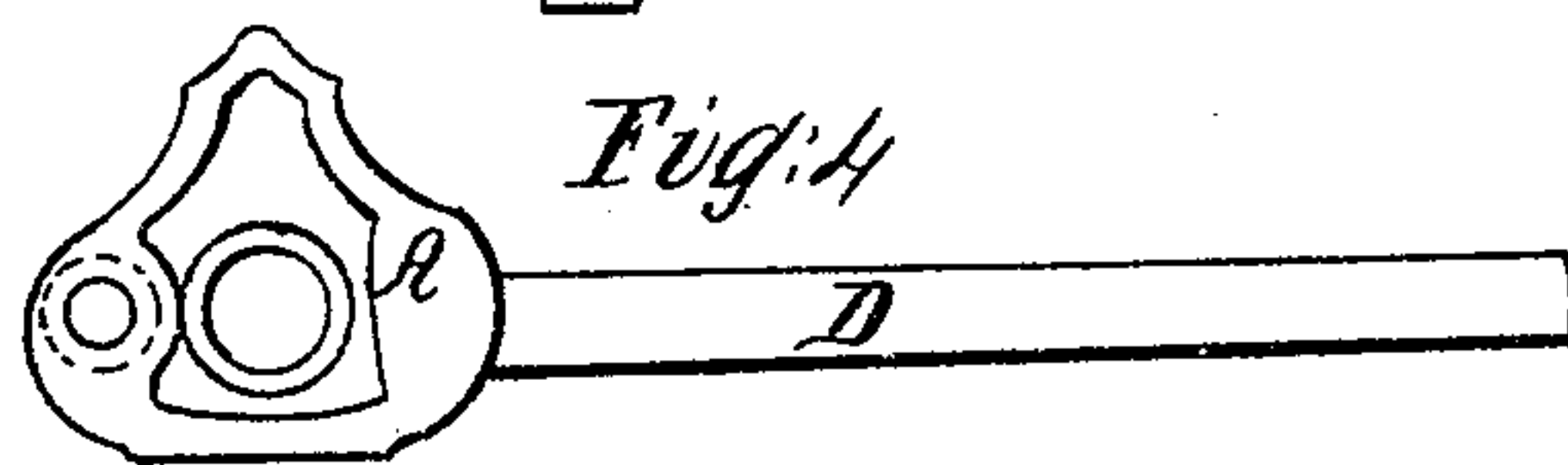
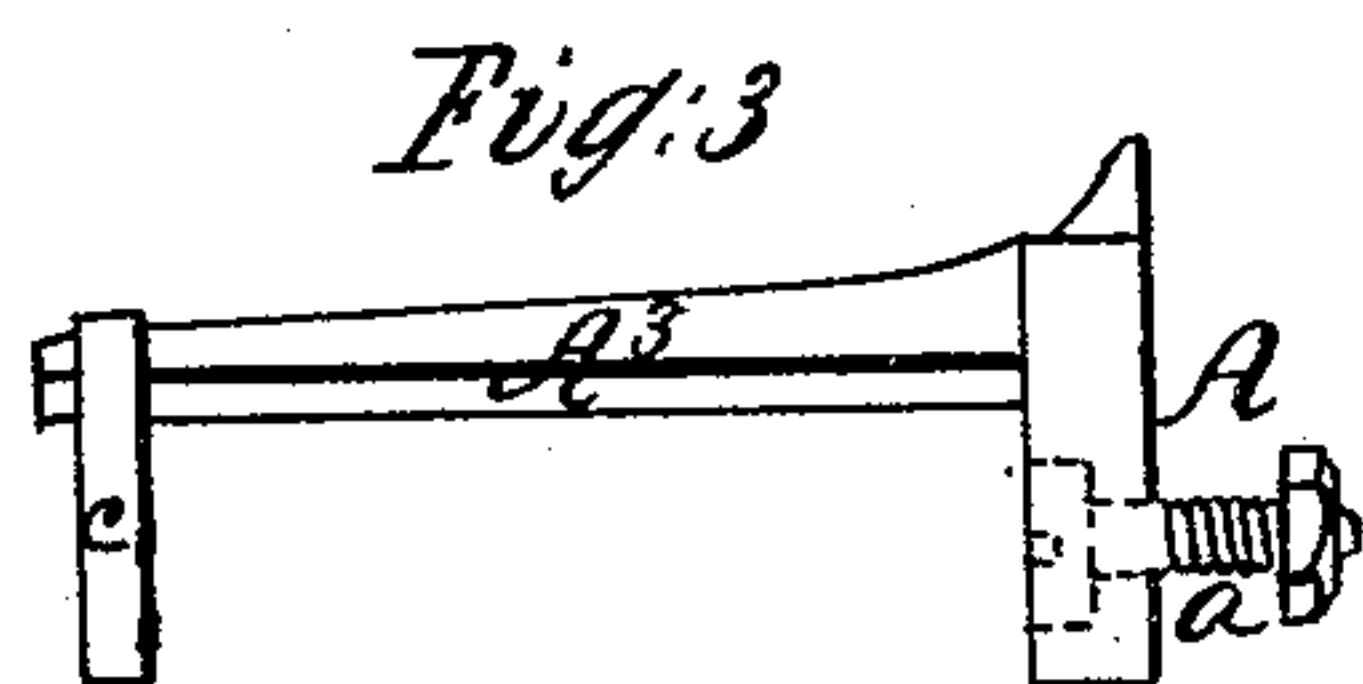
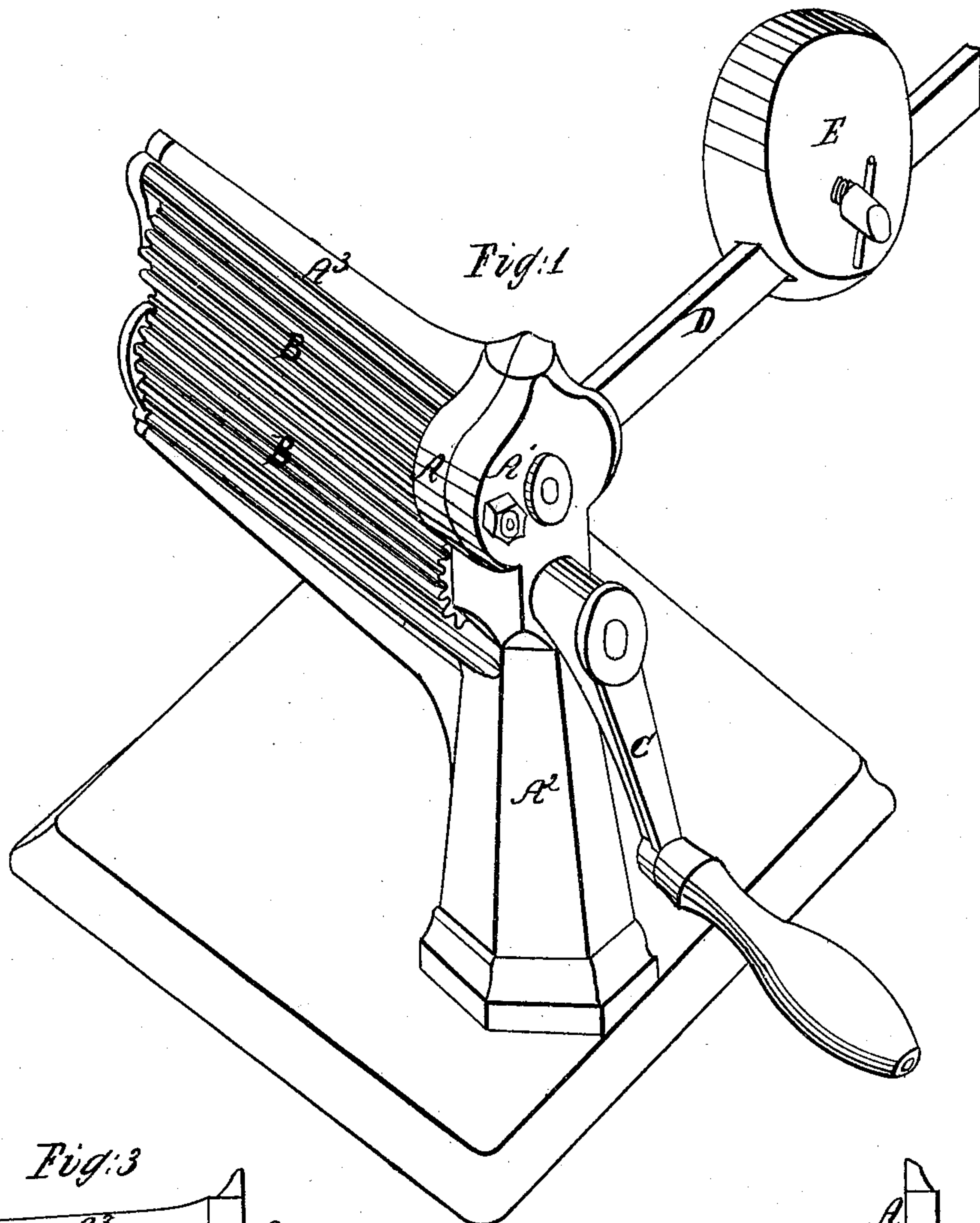


*H. C. Sergeant.*

*Fluting Mach.*

*Nº 97,125.*

*Patented Nov. 23, 1869.*



*Witnesses*

*John L. Brower*  
*Warren L. Bruehl*

*Inventor*  
*Henry C. Sergeant*

# United States Patent Office.

HENRY C. SERGEANT, OF NEWARK, NEW JERSEY.

Letters Patent No. 97,125, dated November 23, 1869.

## IMPROVEMENT IN FLUTING-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, HENRY C. SERGEANT, of the city of Newark, in the State of New Jersey, have invented a new and improved Mode of Constructing Fluting-Machines; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in a novel construction and arrangement of the supports for carrying the rolls, and in the arrangement of the weighted lever, in combination with the eccentrically pivoted support of the upper roll, whereby simplicity and cheapness of construction, combined with durability, efficiency, and perfection of work, is obtained.

Figure 1 is a perspective view of the machine complete.

Figure 2, the column and bracket to support the lower roll.

Figure 3, the bracket or support for the upper roll and bolt for attaching it to the main column.

Figure 4, an end view of the same, showing the wrought-iron lever on to which said support is cast.

The same letters refer to like parts in the several figures.

To enable others to make and use my improvement, I will describe it by referring to the drawings.

The rolls B are supported in bearings similar to other machines now in use, and are revolved by a crank, C, and heated by irons placed inside of them, all of which are old, and I claim nothing for them.

The chief point of the improvement is in constructing two flit surfaces, A A<sup>1</sup>, at right angles to the axis of the upper roll, one upon the main column A<sup>2</sup>, and the other upon the bracket A<sup>3</sup>, which supports the upper roll.

These two surfaces are bolted together with a bolt, a, fig. 3, arranged eccentrically with regard to the axis of the upper roll, and which has a round head counter-sunk into the bracket, leaving an even surface on the side next to the roll.

This bolt answers for the fulcrum for the lever and clamps the flat surfaces together, which guide the bearings for the upper roll.

The weighted lever D, shown in fig. 1, is used for a handle in raising the upper roll in order to put in or take out the fluting, and to regulate the pressure by the adjustment of the weight E thereon, the upper roll and its bearings oscillating upon the bolt a or fulcrum for the lever D.

The bracket A and lever D are made firm together by casting the bracket around the wrought-iron lever.

The opposite ends of the rolls are supported by detachable bearings, c c', connected with the ends of the main upper and lower brackets, so that the rolls may be easily removed and replaced with others of varying number of flutes.

The advantages of this machine over all others are, its simplicity of construction and almost impossibility of getting out of order, the rigidity of its bearings, which insures parallelism of the rolls, regardless of the unevenness of the material passing between them, and the facility of introducing, applying pressure to, and withdrawing the fabric, through the medium of a single lever, which serves both to raise and depress the upper roll, the whole machine consisting of but eight parts, besides screws, while most other machines for the same purpose comprise many more.

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

The bracket, for carrying the upper roll B, connected with the standard by means of the face-plates A A<sup>1</sup>, pivoted together eccentrically, the movable one being provided with a lever extending laterally and on the opposite side from said eccentric pivot, substantially as and for the purpose shown and described.

HENRY C. SERGEANT.

Witnesses:

JOHN L. BROWER,  
WARREN L. BARNITT.