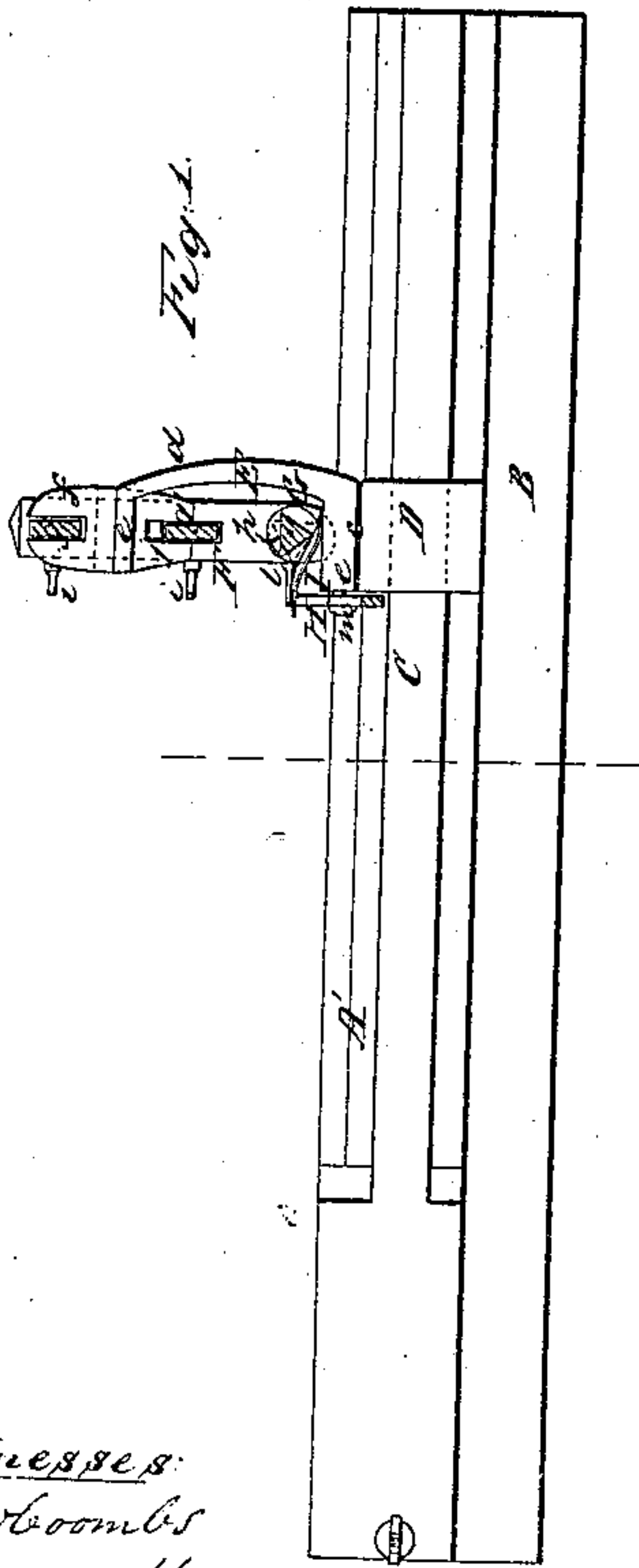
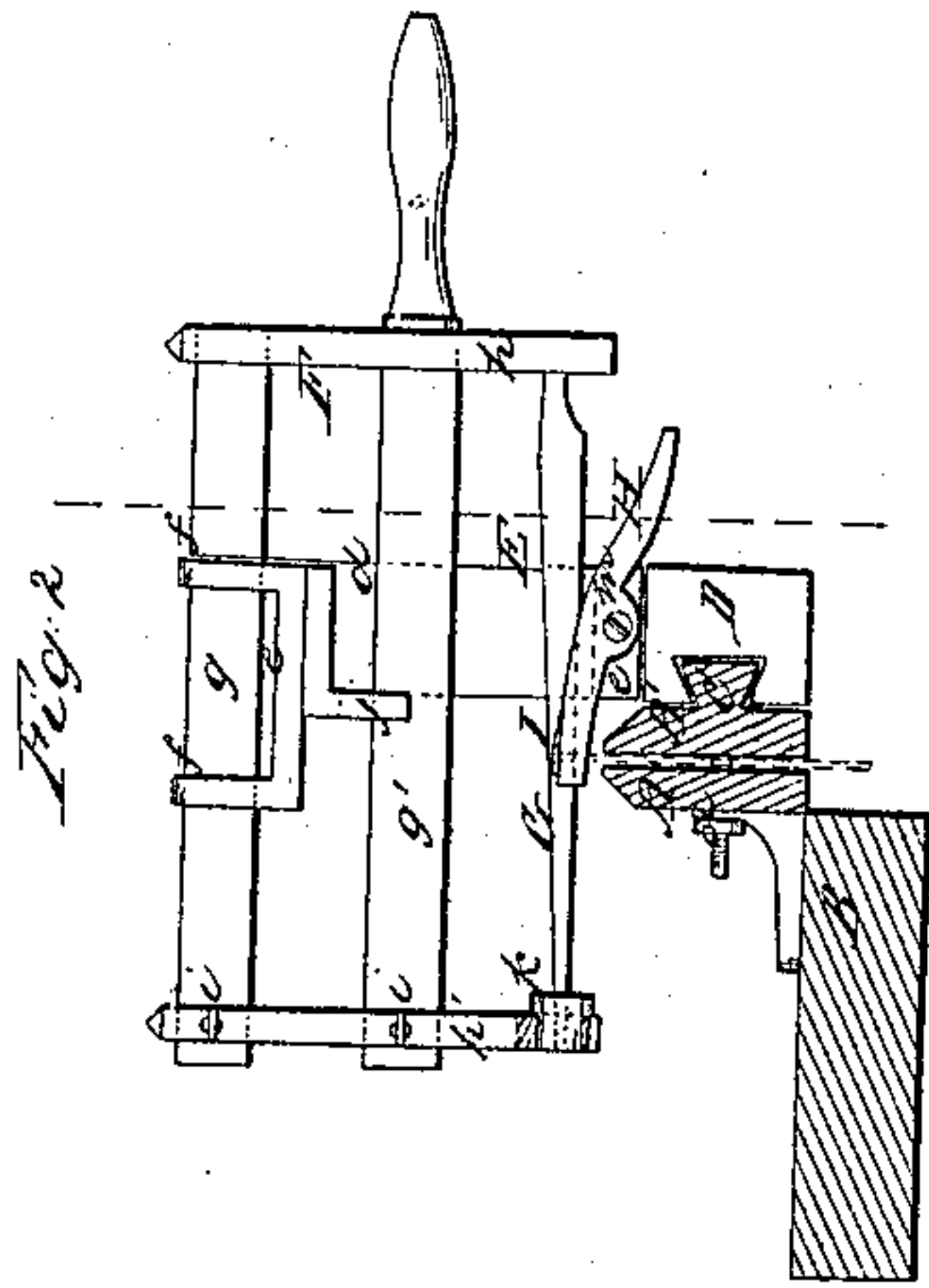


J. S. McCune,

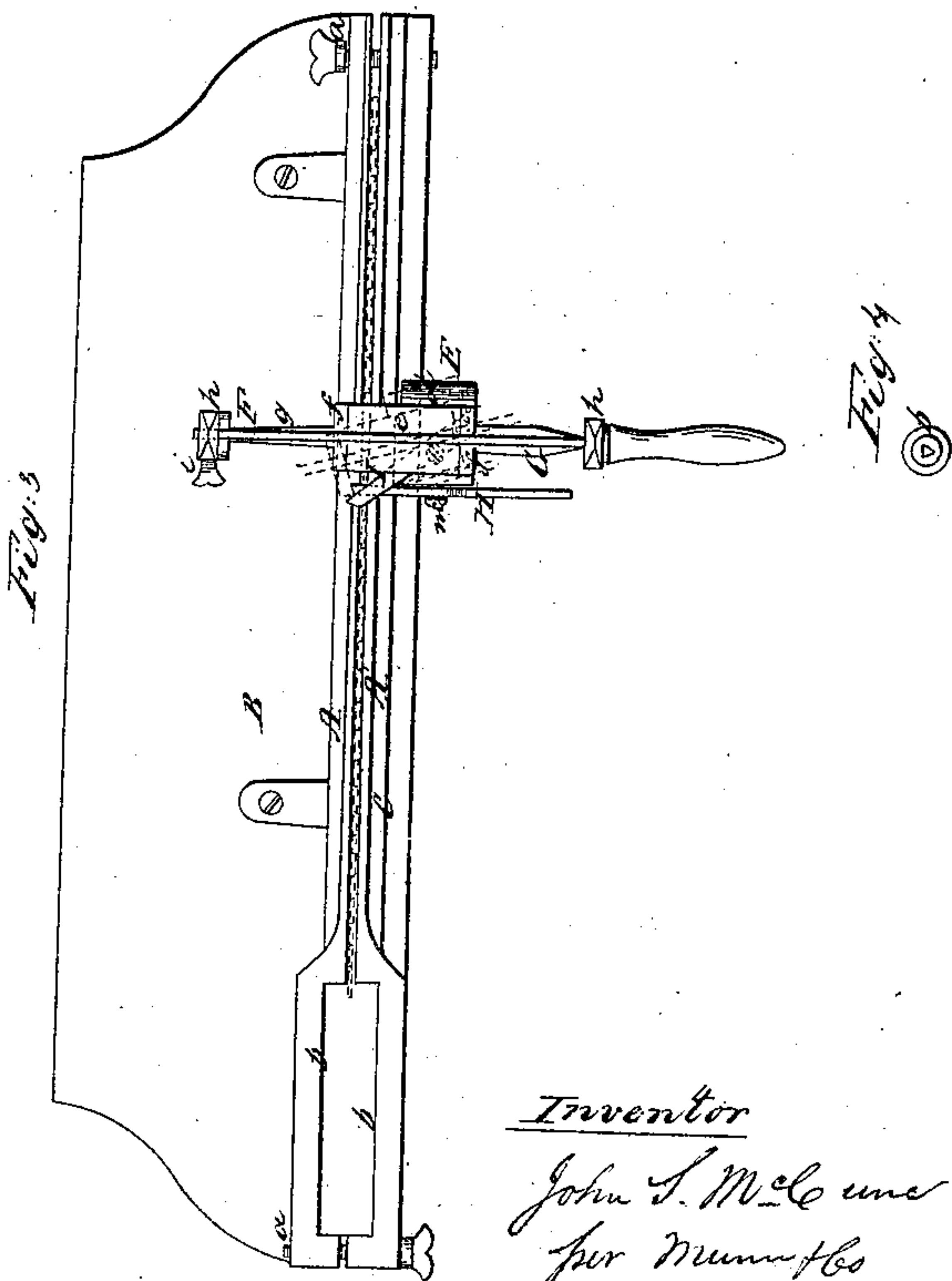
Sharpening Reciprocating Saws.

N^o 43,698.

Patented Aug. 2, 1864.



Witnesses:
J. W. Coombs
Henry Morris



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UNITED STATES PATENT OFFICE.

JOHN S. McCUNE, OF SALEM CITY, NEW JERSEY.

IMPROVEMENT IN SAW-FILING MACHINES.

Specification forming part of Letters Patent No. 43,698, dated August 2, 1864.

To all whom it may concern:

Be it known that I, JOHN S. McCUNE, of Salem City, in the county of Salem and State of New Jersey, have invented a new and Improved Implement or Device for Filing Saws; 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 part of this specification, in which—

Figure 1 is a side view of my invention, the file-frame being in section, as indicated in the lines *x x*, Fig. 2; Fig. 2, a transverse vertical section of the same taken in the line *y y*, Fig. 1; Fig. 3, a plan or top view of the same; Fig. 4, a detached view of the center, in which one end of the file is fitted.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in the employment or use of a clamp in connection with an adjustable sliding file-frame and a gage, all arranged in such a manner as to admit of saws being filed with the greatest facility and in a perfect manner, even by a person not well skilled in such work.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A A' represent two parallel bars, which constitute a clamp to hold the saw to be filed. One of these bars, A', is made adjustable by means of set-screws *a*, the other bar, A, being fixed and attached permanently to a bed-piece, B. The bars A A' at one end are provided with a recess, *b*, to receive the saw-handle, so that the latter may not interfere with the proper adjustment of the saw-blade in the clamp. The adjustable bar A has a longitudinal dovetail cleat or projection, C, at its outer side, on which a slide, D, is fitted, and allowed to work freely to the right and left, and to said slide D there is attached by a set-screw, *c*, a support, E, the main portion *d* of which is slightly curved from a vertical line, the upper and lower parts, *e e'*, being horizontal and projecting from one side of *d*, the set-screw *c* passing through the part *e'* of the support into the slide D.

On the part *e* of the support there are se-

cured two uprights, *f f*, which are slotted vertically to receive the upper bar, *g*, of a file-frame E. This frame is of rectangular form, and is composed of two upright bars, *h h'*, connected by the bar *g* and a bar, *g'*, the latter being below the former. The bars *g g'* are permanently framed in the upright bar *h*, but are secured in the bar *h'* by set-screws *i*, and the lower bar, *g'*, works in a slotted pendant, *j*, attached to the under side of *e*.

G represents a file of the usual form employed for filing saws. The back end of this file is fitted loosely in the lower end of the bar *h* of the file-frame, while the front end of said file is fitted in a center, *k*, which is placed in the bar *h'* and is prevented from casually turning by a set-screw, *l*.

H represents a lever, which is attached by a fulcrum-pin, *m*, to the slide D, and has a spring, I, bearing upon it. This lever serves as a gage to insure the teeth being retained in filing at an equal distance apart.

The device is used as follows: The saw-blade is secured in the clamp and the file-frame F is adjusted in a more or less oblique position with the saw, according to the desired rake to be given the saw-teeth. The first tooth is filed by moving the frame F by hand, and the lever or gage H fitted into the file-tooth, which gives the proper position for the file G, to act upon the next tooth but one, which, when filed, has the gage H adjusted in it, every alternate tooth being filed, and all of an equal depth, in consequence of the bar *g* serving to limit the downward movement of the file-frame by coming in contact with the part *e* of the support E. The proper or desired "hook" is given the teeth by adjusting the file F in a more or less inclined position in its transverse section, which is done by turning it in the file-frame and securing it by the set-screw *l*.

Thus by this simple device a saw may be filed expeditiously and in a perfect manner, even by a person not skilled in the art. When the alternate teeth are filed, having a rake in one direction, the frame is adjusted in a reverse oblique position to suit the intermediate teeth, which are filed in the same way as the others.

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

1. The clamp formed of the bars A A, in combination with the slide D, file-frame F, and gage H, all arranged substantially as and for the purpose set forth.

2. The part *e* of the support E, provided

with the uprights *f f*, in connection with the bar *g* of the file-frame, all arranged for the purpose of regulating the depth of the file-cut or length of the teeth, as set forth.

JOHN S. McCUNE.

Witnesses:

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