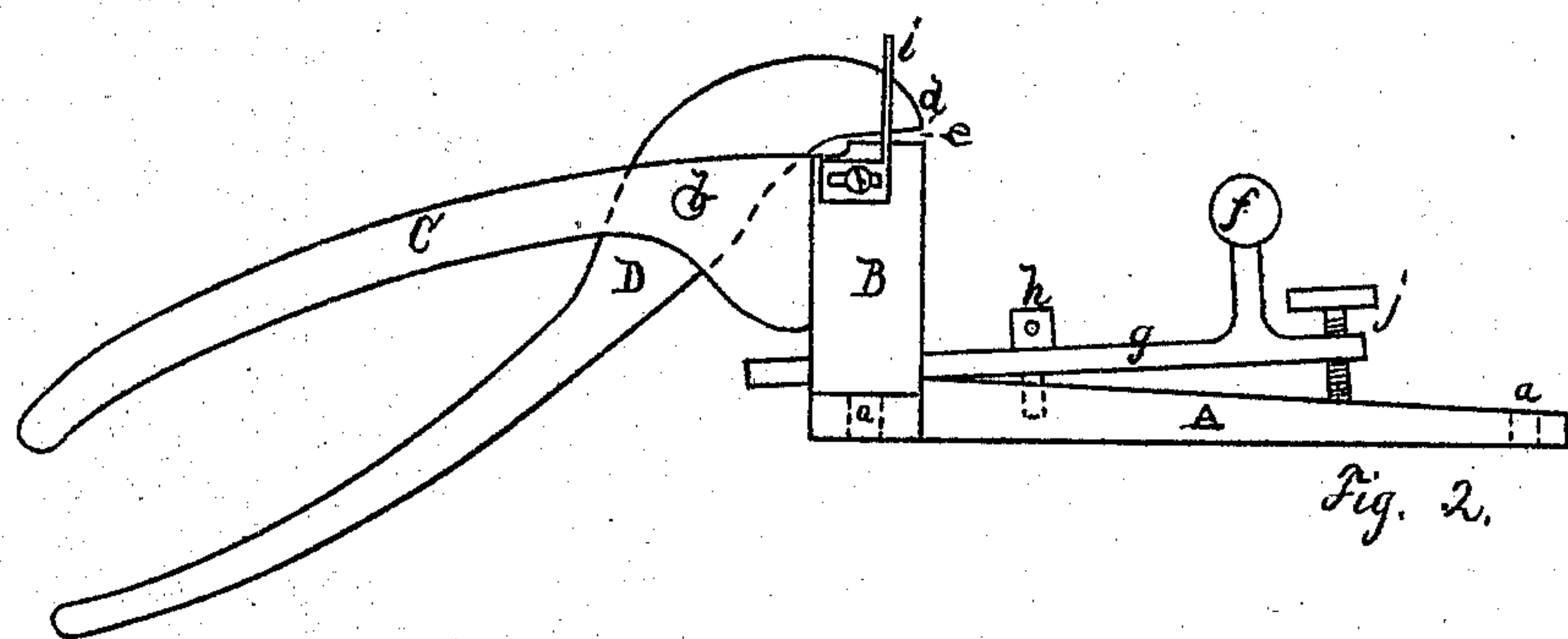
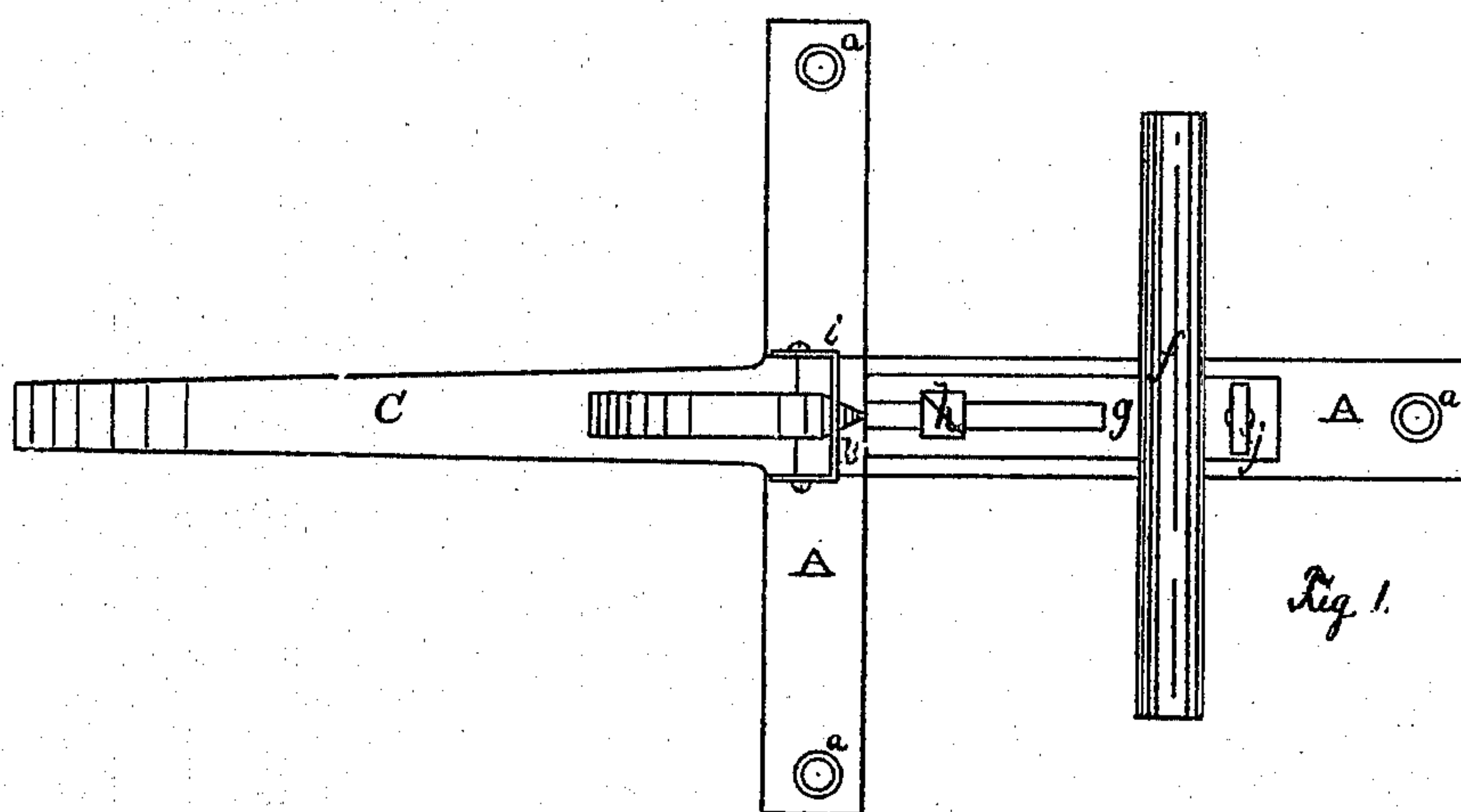


J. COLLAR.

Improvement in Saw-Sets.

No. 131,938.

Patented Oct. 8, 1872.



Witness
J. R. Pickers
John Williams

Inventor
James Collar
per Wm. Franklin Seary
Att'y

UNITED STATES PATENT OFFICE.

JAMES COLLAR, OF PLANTATION No. 33, MAINE.

IMPROVEMENT IN SAW-SETS.

Specification forming part of Letters Patent No. 131,938, dated October 8, 1872.

To all whom it may concern:

Be it known that I, JAMES COLLAR, of Plantation No. 33, in the county of Hancock and State of Maine, have invented a new and useful Improved Saw-Set; and I hereby declare the following to be a full, clear, and exact description of my invention, which will enable others to make and use the same, reference being had to the accompanying drawing, in which—

Figure 1 shows a plan, and Fig. 2 a side view of same.

The object of my invention is to produce a saw-set which will do its work with regularity and ease, giving to each tooth its proper "set" without flattening it or drawing the temper from the steel.

Referring to the drawing, A is a bed-piece, having holes *a a a*, by which it may be secured to the bench. Attached to this bed-piece, and making a part of it, is a projection, B, from which proceeds an arm, C, to which is attached, by a pivot, *b*, a lever-arm, D, having its point *d* triangular, and shutting down upon the top of the projection B, which is made flat to receive it. The triangular shape is given to the point *d* that it may conform to the shape of a saw-tooth. The jaw *e*, formed by the lever D and projection B, remains open, when the device is not in use, from the weight of the opposite end of said lever. Now, when the "set" is to be given to the saw, it is slanted sufficiently to make the angle between the saw-plate and the flat top of the projection B equal to the set required for the tooth. The lever D is then grasped, bringing the jaw *e* together upon the tooth, which sets it by the pressure. In order to regulate the slant of the saw-plate, a rest, *f*, is provided, attached to a slotted spring-plate, *g*. Through its slot passes a screw, *h*, by which it is fastened to the bed of the machine. At the other end of this plate *g* is a set-screw, *j*, acting against the bed-piece, so that the plate *g* can be raised or lowered by

turning it, while it can be drawn backward and forward by means of the slotted plate *g*, and fixed in any position by turning the screw *h*. This permits the device to be adjusted to wide or narrow saws, while the angle of "set" may be regulated by raising or lowering the rest *f*, thus diminishing or increasing the angle between the saw-plate, the back of which rests upon it and the face of the projection.

Guides *i*, made adjustable by slots and set-screws, may be attached to the under jaw B, so as to prevent the saw from getting too far under the point *d*.

The bed-piece A, upon which the plate *g* slides, may be made thicker at the end nearest the machine, to assist in adjusting the set or slant of the saw-plate, as in setting a narrow saw, when the rest *f* has to be moved close to the jaws of the machine. If the bed-plate were of equal thickness throughout the set of the tooth would have to be regulated entirely by the screw *j*; but by the additional thickness of the bed-plate near the jaws the rest is raised as it approaches the machine, and has more stability than if regulated by the screw alone.

I do not claim the devices patented by Jacob Muzzy, February 13, 1849, No. 6,112; but

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

The combination of the bed-piece A, projection B, and arm C, constructed in one piece, lever-arm D, forming with said projection the jaw *e*, said jaw being kept open by the weight of said lever-arm, with a rest, *f*, set-screw *j*, and slotted spring-plate *g*, sliding on an inclined plane formed by the bed-plate, the said parts being constructed and arranged as herein set forth, for the purposes specified.

JAMES COLLAR.

Witnesses:

ARON G. SABIN,

WM. FRANKLIN SEAVEY.