F. A. BUELL.

Saw-Set.

No. 209,222. Patented Oct. 22, 1878.

Fig. 1

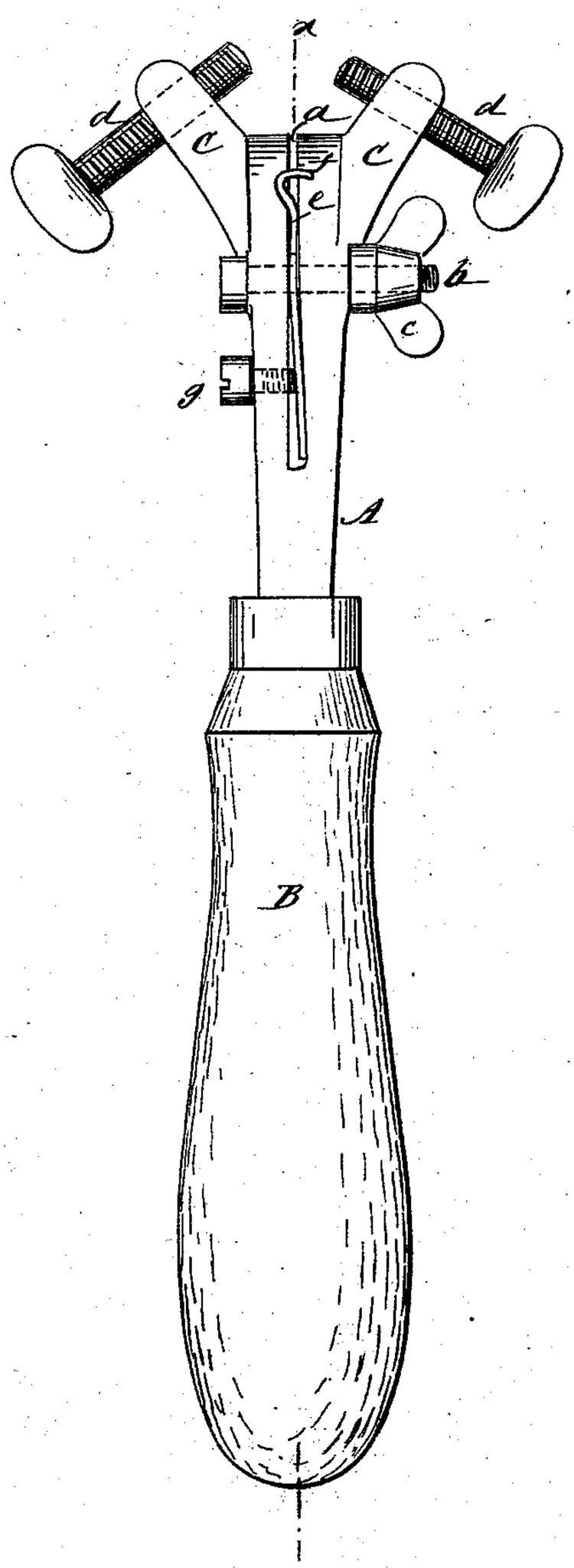
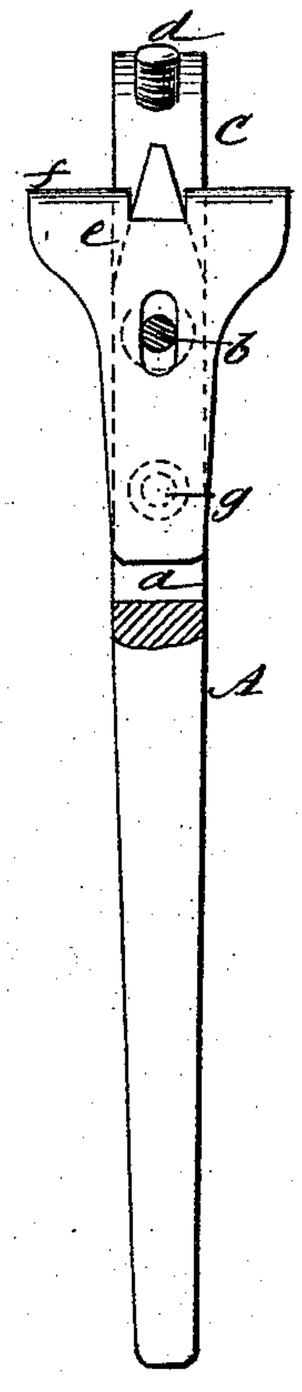


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK A. BUELL, OF BROOKLYN, E. D., NEW YORK.

IMPROVEMENT IN SAW-SETS.

Specification forming part of Letters Patent No. **209,222**, dated October 22, 1878; application filed March 25, 1878.

To all whom it may concern:

Be it known that I, FRANK A. BUELL, of Brooklyn, E. D., in the county of Kings and State of New York, have invented a new and Improved Saw-Set, of which the following is a specification:

Figure 1 is a side elevation of my improved saw-set. Fig. 2 is a longitudinal section taken on line *x x* in Fig. 1.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

Similar letters of reference indicate corresponding parts.

Referring to the drawing, A is a shank fitted to a handle, B, and having a slot, *a*, which extends from its outer end toward the handle, and is regulated as to width by the bolt *b*, which is provided with a wing-nut, *c*. The end of each jaw formed by slotting the shank is triangular, and from each jaw short arm C projects at an angle of about forty-five degrees. These arms are oppositely arranged in respect to each other, and are each provided with a gage-screw, *d*, which passes through the arm at a right angle, and projects toward the center line of the shank. A gage, *e*, formed of sheet metal and having a straight lip, *f*, is fitted to the slot in the shank, and is slotted to allow the bolt *b* to pass through. A set-screw, *g*, passes through one of the jaws of the shank, and clamps the gage *e* against the opposite jaw.

The manner of using the instrument is as follows: The width of the slot is adjusted by means of the bolt, and the gage *e* is moved so as to adapt the instrument to the length of the teeth to be set, and the gage-screws are adjusted so that when the saw-tooth is secured between the jaws of the set it may be bent by moving the instrument until the gage-screw touches the saw-blade. It is then placed on the next tooth and moved in the opposite direction in the same manner, and so on until all of the teeth in the saw are set.

By means of my improvement the teeth of saws may be uniformly and rapidly set.

I am aware that it is not new to use a shank-bar with handle, and with a toothed wheel and gage-arm in an offset, with suitable clamps, so that the teeth of a saw may be set in each direction without reversing the instrument or saw; but

What I claim is—

The forked shank A, having the adjusting-bolt *b* and arms *c*, provided with the gage-screws *d*, substantially as and for the purpose specified.

FRANK A. BUELL.

Witnesses:

GEO. M. HOPKINS,

C. SEDGWICK.