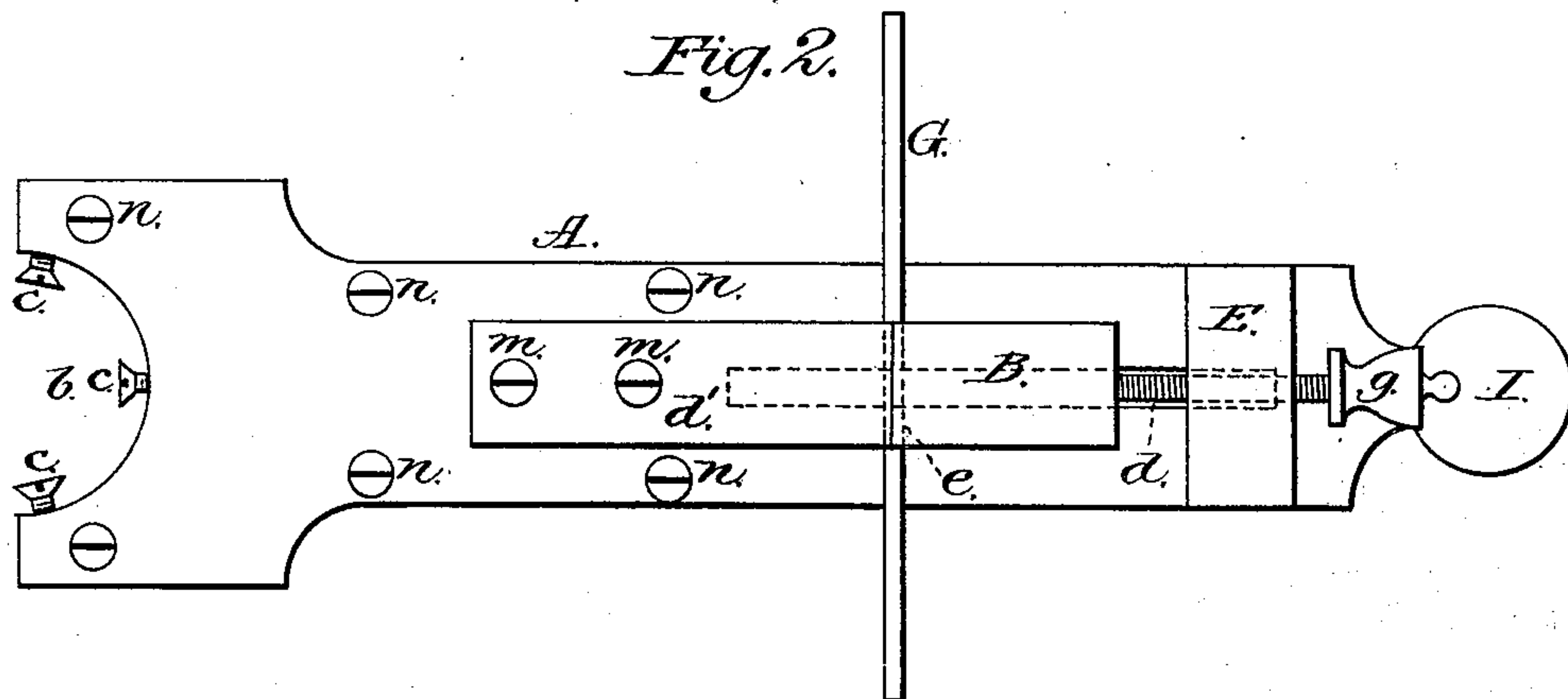
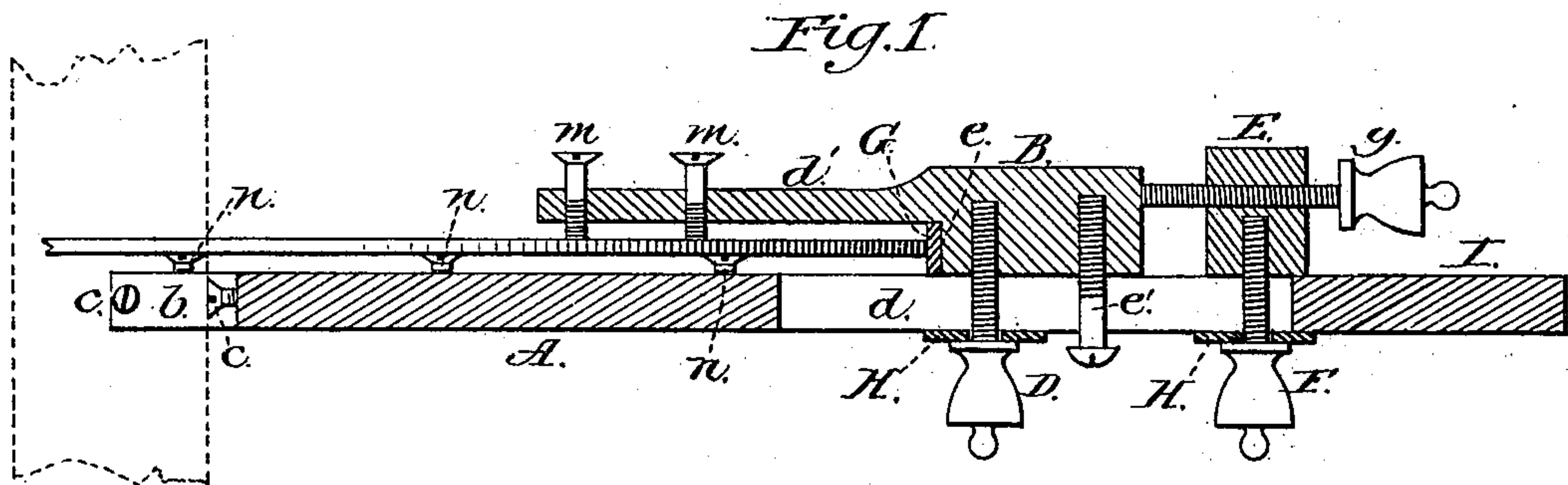


(No Model.)

A. LONG.
CIRCULAR SAW JOINTER.

No. 256,011.

Patented Apr. 4, 1882.



WITNESSES,
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UNITED STATES PATENT OFFICE.

ALEXANDER LONG, OF BAIRDSTOWN, OHIO.

CIRCULAR-SAW JOINTER.

SPECIFICATION forming part of Letters Patent No. 256,011, dated April 4, 1882.

Application filed January 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER LONG, a citizen of the United States, residing at Bairdstown, in the county of Wood and State of Ohio, have invented certain new and useful Improvements in Saw Gages and Jointers; 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, forming part of this specification.

My invention relates to improvements in circular-saw gages and jointers; and the novelty consists in the means for securing and holding the file in the jointer-frame, in the adjustment of the same, in the screws arranged in the forked or bifurcated end of the main frame, and the bearing-screws for steadying the saw-blade while the teeth of the same are being filed, all as will be hereinafter more fully set forth.

In the annexed drawings, to which reference is made, Figure 1 is a representation of a longitudinal section of my saw-jointer, showing a file placed therein; and Fig. 2 is a plan view of the same.

The letter A designates the main frame of my device, which is made solid of any suitable material, and is pronged or bifurcated at one end, as shown at *b*, to be placed upon the arbor or shaft of the saw. In the pronged part of the said frame A are shown three screws, *c*, which are for the purpose of adjusting and securing the said device to any size saw arbor or shaft. At the opposite or outer end of this main frame A is a slot, *d*, the purpose of which will be hereinafter more fully set forth.

B represents a slide, having shoulder *e* and arm *d'*. This slide B carries a bolt or screw, *e'*, which extends out through the slot *d* in the main frame A and serves as a guide in the backward and forward movement of the said slide.

D represents a thumb-screw for securing the said slide to the main frame A, and serves to hold the same down firmly upon the said main frame at any desired distance from the saw-arbor. E is also a slide or stud, which is placed in rear of the slide B upon the main frame and secured thereon by means of the screw F, which passes out through the slot *d* of the said main frame. This slide or stud E carries a screw, *g*, which serves as a support or back-

bearing for the slide B, and assists in preventing the same from moving backward when the machine is in operation. The letters H H represent bearing-plates for the screws D and F.

G represents the file, which is placed against the shoulder *e* of the slide B and held down upon the main frame with the arm *d'* of the said slide by means of the screw D.

The letters *m* and *n* represent screws, which are for the purpose of steadying the saw-blade in the jointer-frame.

The operation is as follows: The forked portion of the frame A is placed upon the arbor or shaft of the saw, when the blade will extend up between the arm *d'* of the slide B and the main frame A. The steadying-screws *m* and *n* are then screwed down to suit the thickness of the blade and prevent any lateral movement of the same while being jointed. The opposite end, I, which may be provided with a suitable handle, is held by the operator, the screw D loosened, and the slide B, carrying the file, moved up to the teeth of the saw-blade. The screw F is then loosened and the stud E moved forward a suitable distance toward the slide B. The screws D F *g* are then tightened in the manner before stated, when all the parts will be securely held to the main frame and the jointing ready to be effected when the saw is put in motion.

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

1. The frame A, having forked end *b* and slot *d*, and carrying screws *c* and *n*, in combination with slide B, carrying screw *m*, guide-bolt *e'*, thumb-screw D, and plate H, all substantially as and for the purposes specified.

2. In a circular-saw-filing machine, the frame A, constructed as described, carrying screws *c* and *n*, in combination with the slide B, carrying screw *m*, the screw D, bolt *e'*, screw F, and stud E, carrying screw G, all substantially as and for the purposes specified.

In testimony that I claim the foregoing as my invention I have hereunto affixed my hand and seal this 4th day of August, A. D. 1881.

ALEXANDER LONG. [L. S.]

Witnesses:

WM. MUGEN,
PARLEE C. TRITCH.