

No. 616,587.

Patented Dec. 27, 1898.

F. W. ROBERTSON.

SAW SHARPENER.

(Application filed May 11, 1898.)

(No Model.)

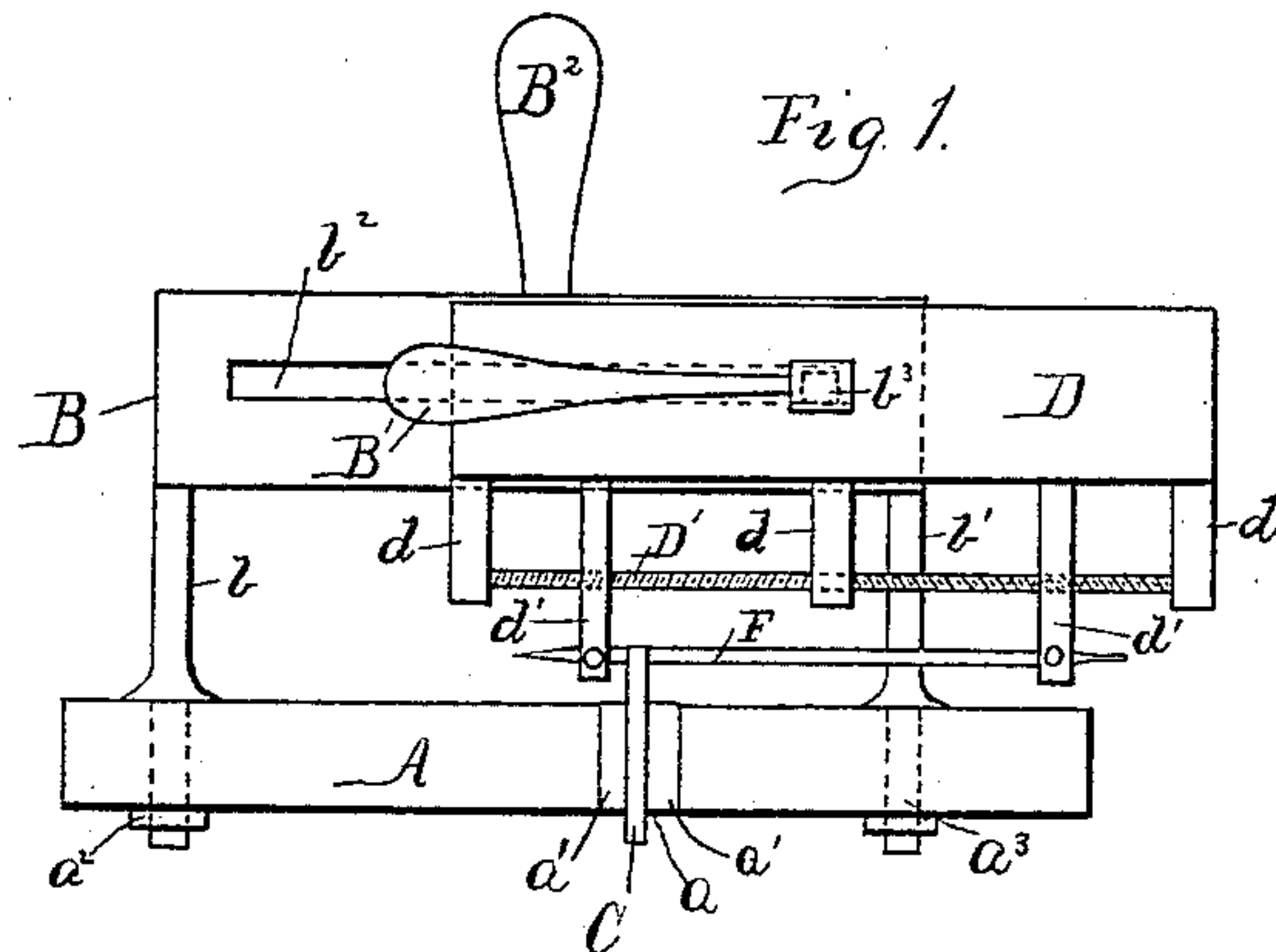
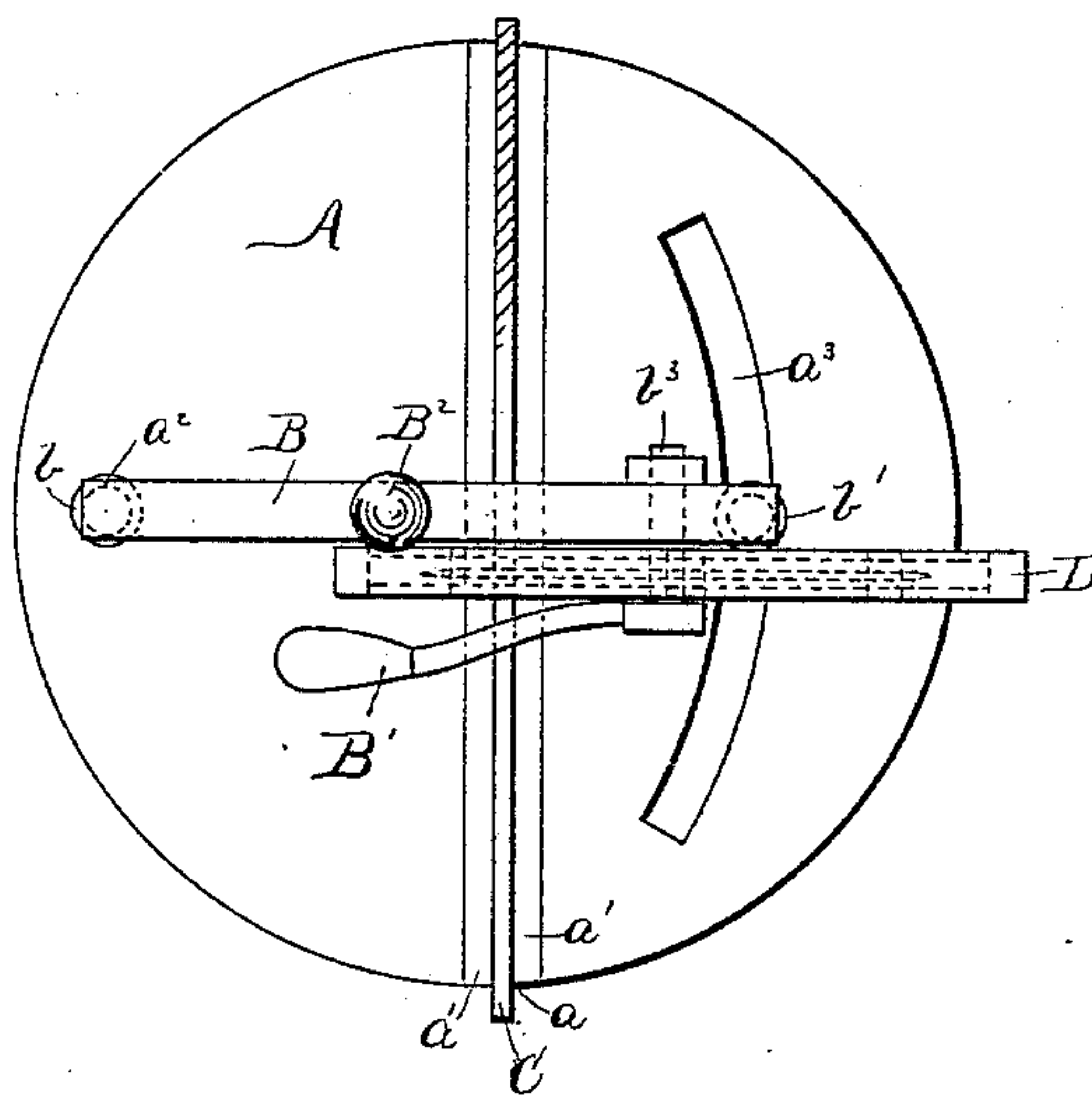


Fig. 2.



WITNESSES:

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FREDERICK WILLIAM ROBERTSON, OF NEWARK, ENGLAND.

SAW-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 616,587, dated December 27, 1898.

Application filed May 11, 1898. Serial No. 680,426. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK WILLIAM ROBERTSON, a subject of the Queen of Great Britain, residing at Girton, near Newark, in the county of Nottingham, England, have invented certain new and useful Improvements in Saw-Sharpeners, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to saw-sharpeners, and has for its object to provide a saw-sharpener which is constructed of few parts and is simple in construction and effective in operation.

A further object is to provide means whereby the angle at which the teeth are filed may be varied.

The invention consists of a saw-sharpener constructed substantially as hereinafter described, and defined in the claim.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same letters of reference in each of the views, and in which—

Figure 1 is a side view of the improved saw-sharpener constructed in accordance with my invention, and Fig. 2 is a top view thereof.

Referring to the drawings, A represents the saw-supporting plate, which may be of any approved material and construction and may be supported in any suitable manner. The plate A is provided with a slot a , the sides of which are lined with strips of rubber a' or other suitable resilient material, between which the saw C is adapted to be clamped. In one side of the plate is formed a perforation a^2 , and in the other side is a curved slot a^3 .

A frame B is secured upon the upper face of the plate A by means of standards b b' , one of which, b , is secured in the perforation a^2 by means of a suitable jam-nut, the other standard, b' , engaging the curved slot a^3 , and may be moved therein to any suitable point and secured by a suitable jam-nut in its adjusted position. By this means the angle of the frame B with respect to the saw C may be varied at will.

The frame B is provided with a longitudinal

slot b^2 , in which is guided a bolt b^3 , provided with a suitable nut for holding the same in place, and upon the other end with a suitable handle B'. A file-holder D is mounted upon the bolt b^3 and is provided upon its lower side with depending lugs d , which are perforated to support a double-threaded rod D'. Supporting-arms d' for the file F are mounted upon said double-threaded rod D' and bear at their upper ends against the holder D. The lower ends of the arms d' are provided with suitable orifices to receive the ends of the file F, and binding-screws are provided to lock the file in said arms. The frame B may be provided with a suitable handle B². If desired, a suitable stop (not shown) may be arranged upon the file-holder D to contact with the frame B, so as to limit the movement of the file-holder, and thus file all the said teeth to a uniform depth.

The saw is placed in the slot a and is securely held therein by means of the rubber strips a' . The frame B is then adjusted to the desired angle and clamped fast. The arms d' having been adjusted a proper distance apart upon the threaded rod D', the file F is clamped therein and is caused to operate upon the teeth of the saw by reciprocating the holder D along the frame B by means of the handle B'.

By means of the above-described construction it will be seen that a saw may be quickly and truly sharpened by any inexperienced operator.

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

In a saw-sharpener, the combination, with a base, of file, a supporting-frame mounted pivotally above said base, a curved slot in said base, means connected with said frame and passing through said slot for securing said frame at the desired angle, said frame comprising a main member having a longitudinal slot and a supplemental member movable longitudinally with relation to said main member and slidably connected therewith by devices passing through the slot in said main member, said supplemental member having depending lugs, a rod supported horizontally thereby, arms longitudinally movably mounted upon said rod and adapted

to hold a file at their lower ends, and a handle for reciprocating said supplemental member, and a saw-aperture in said base between the pivotal point of said frame and said
5 curved slot, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in pres-

ence of the subscribing witnesses, this 19th day of March, 1898.

FREDERICK WILLIAM ROBERTSON.

Witnesses :

WILLIAM OSWALD ROWBOTHAM,
M. H. COTTON.