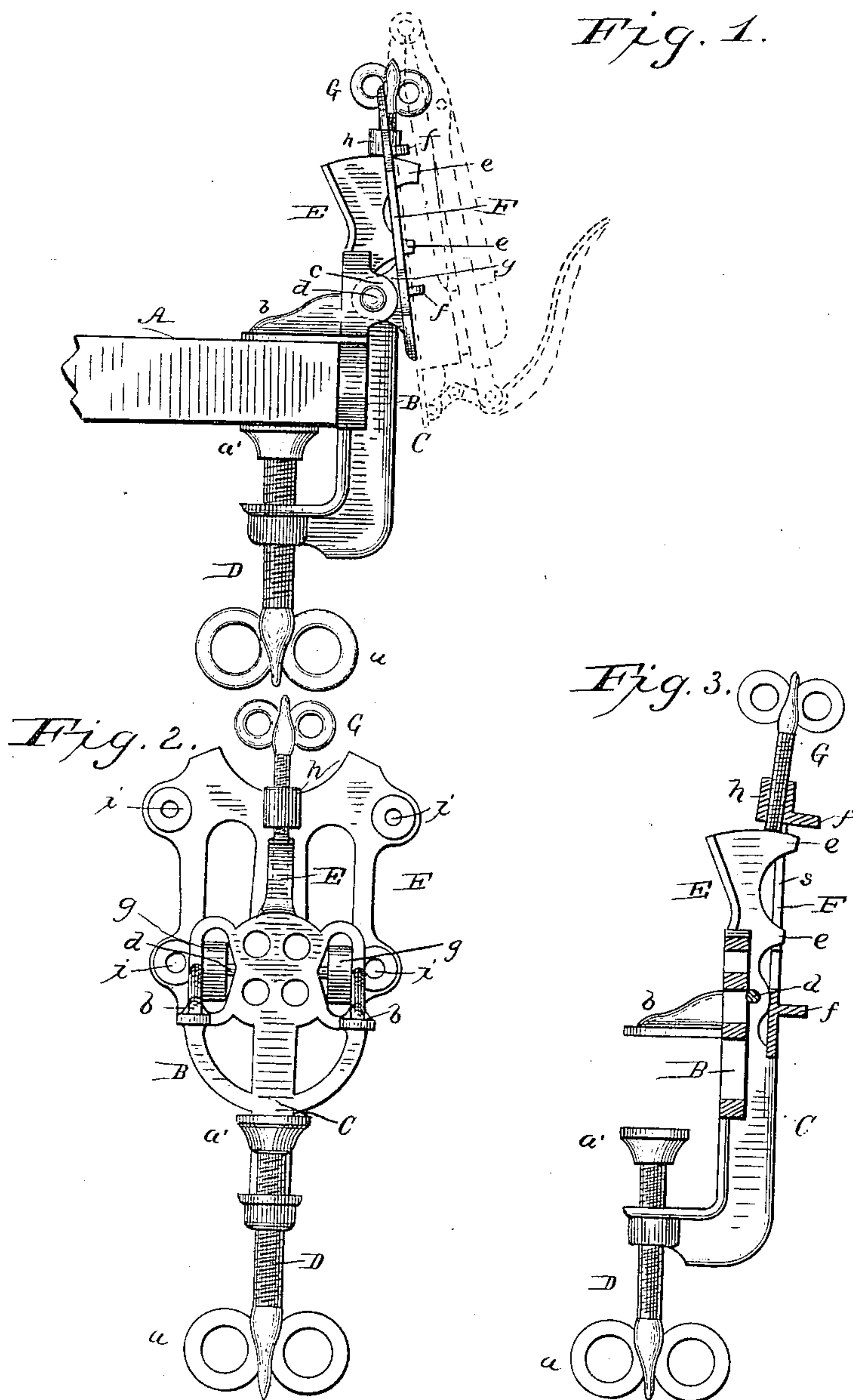


(No Model.)

A. J. TYLER.
SAW VISE HOLDER.

No. 362,910.

Patented May 10, 1887.



Witnesses
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UNITED STATES PATENT OFFICE.

AARON J. TYLER, OF ALBION, NEW YORK, ASSIGNOR TO E. C. COLE, OF
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SAW-VISE HOLDER.

SPECIFICATION forming part of Letters Patent No. 362,910, dated May 10, 1887.

Application filed February 17, 1887. Serial No. 227,967. (No model.)

To all whom it may concern:

Be it known that I, AARON J. TYLER, a citizen of the United States, residing at Albion, in the county of Orleans and State of New York, have invented certain new and useful Improvements in Saw-Vise Holders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to an improvement which is especially designed for holding rigidly the saw-vise for which Letters Patent of the United States were granted to me bearing date December 1, 1885, and numbered 331,745. My present invention, however, is not confined to said saw-vise, as other devices for clamping saws may be attached to my improved saw-vise holder.

My said improvements will be fully understood from the following description when taken in connection with the annexed drawings, in which—

Figure 1 is a side elevation of my improved saw-vise holder secured to a bench, showing a saw-vise secured to it, as indicated by dotted lines. Fig. 2 is a rear elevation of the vise-holder detached from a bench, and Fig. 3 is a vertical transverse section centrally through the vise-holder.

Referring to the annexed drawings by letter, A designates the edge of a bench or table to which my improved vise-holder is rigidly secured.

B designates an integral open or skeleton frame, which is preferably made of cast metal, and which is constructed as follows: C designates the central standard of this frame, terminating at its lower end in a horizontal foot, through which is tapped a clamping-screw, D, having a handle, *a*, on one end and a swivel clamping-head, *a'*, on the upper end. Above this clamping-head are two horizontal offsets, *b b*, which, with the screw D, allow the device to be rigidly clamped to the edge of the bench A, or to any other established object. Just above these offsets or brackets *b b*, and in

front of the frame B, are ears *c c*, through which passes horizontally a pintle, *d*, for a purpose hereinafter explained.

Rising from the center of the frame B, and forming part thereof and a front strengthening-rib, is a sector, E, which itself is ribbed to strengthen it. In front of this sector E, and forming part of the said front central rib, are two guides, *e e*.

I have thus described the peculiarities of the frame and bench clamp, which is formed of one piece, as above stated.

F designates a broad flat vise-supporting plate, which is preferably made open or skeleton for the purpose of lightness, and strengthened by transverse ribs *f*. This frame is also constructed with ears *g g*, through which the pintle *d* passes, thus hinging the said frame F to the clamp-frame B. The upper edge of the sector E is concentric to the axis of the pintle *d*, and in the same vertical plane with the sector a boss, *h*, is formed on frame F, through which is tapped a binding-screw, G, having a broad handle on it. It is by means of this screw G that the said hinged frame can be rigidly secured to the frame B at any desired angle which may be found best suited to the person who desires to file a saw.

It will be observed by reference to Fig. 2 that the hinged adjustable frame F is provided at its four corners with apertures *i*, which are designed to receive bolts for rigidly securing a saw-clamp to it.

The two guides *e e* above referred to pass through a vertical slot, *s*, in the hinged frame F, and they thus, in a measure, resist lateral strain on the said frame in a vertical plane equidistant from the ears through which passes the pintle *d*.

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

1. A saw-vise holder consisting of a main frame provided with a bench-clamp, a sector, and pivotal ears, and a hinged frame adapted to have secured to it a saw-vise and provided with a clamping-screw for securing it rigidly to said main frame at any desired angle, substantially as described.

2. A saw-vise holder consisting of a main

frame, B, provided with a bench-clamp, a sector having guides *e e*, the frame F, hinged to said frame B concentric to the said sector, and a clamping-screw, G, substantially as described.

- 5 3. A saw-vise holder consisting of the main frame B, having a sector, E, integral with it, and a frame, F, hinged to said main frame and provided with a clamping-screw adapted to

bind on said sector, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

AARON J. TYLER.

Witnesses:

JAS. T. LEWIS,

SANFORD T. CHURCH.