

(No Model.)

E. CHAQUETTE.
SAW FRAME.

No. 510,774.

Patented Dec. 12, 1893.

Fig. 1.

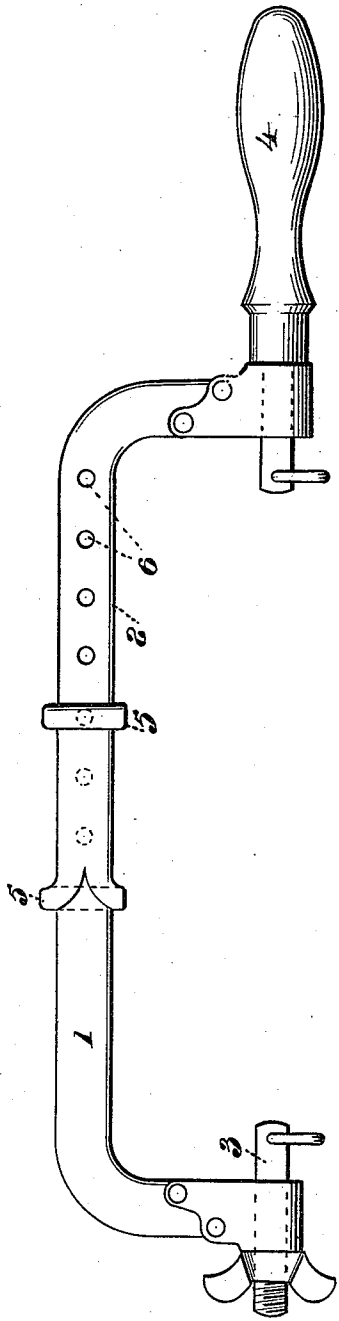


Fig. 4.

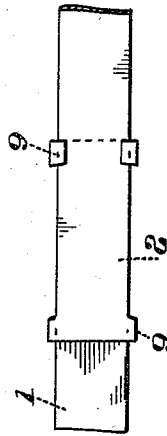


Fig. 2.

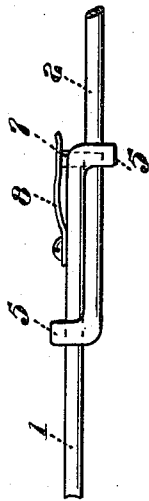
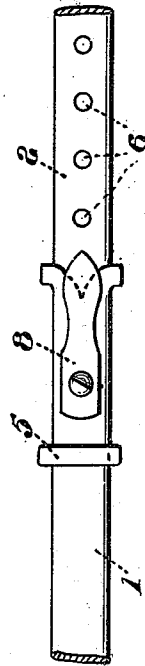


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

EPHRAIEM CHAQUETTE, OF BRIDGEPORT, CONNECTICUT.

SAW-FRAME.

SPECIFICATION forming part of Letters Patent No. 510,774, dated December 12, 1893.

Application filed September 16, 1893. Serial No. 485,704. (No model.)

To all whom it may concern:

Be it known that I, EPHRAIEM CHAQUETTE, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Saw-Frames; and I do hereby 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.

This invention relates to certain novel and useful improvements in saw frames, but more particularly to frames of the class used for holding and operating hack-saw and fret-saw blades.

The object of my invention is to provide a saw-frame capable of longitudinal adjustment, so that it may be used with different lengths of blades, in which frame the adjustment may be very quickly and readily effected, and which at the same time shall be exceedingly strong and rigid. In tools of this class the cost of manufacture is of the most vital importance, and I have particularly aimed to provide a saw-frame having the foregoing characteristics, which may be produced and sold at the lowest possible price.

With the ends hereinbefore set forth in view, my invention consists in the construction and combination of elements hereinafter to be fully and in detail explained and then recited in the claims, and particularly in the combination of the two sections of the bow, each having a laterally extending loop upon its end through which the body of the other section passes, and means for securing the sections together.

In order that those skilled in the art to which my invention appertains may fully understand its construction and method of operation, I will describe the same in detail, reference being had to the accompanying drawings which form a part of this specification, and in which—

Figure 1 is a side elevation; Fig. 2 a detail edge view looking from the top of Fig. 1; Fig. 3 a detail side elevation opposite to Fig. 1; Fig. 4, another detail side elevation showing a modified construction.

The back or bowed portion of my saw-frame

is made in two parts or sections, which I denote respectively by the numerals 1 and 2. Upon the outer extremity of the part 1 is arranged in any suitable or usual manner the straining screw 3 for tautening the saw blade, and the outer end of the part 2 is furnished with any suitable handle. The inner ends of the parts 1 and 2 are provided each with a loop 5 which is turned outward at right angles to said part, so that, when assembled, each loop will closely embrace the body of the other part of the bow and form a bearing therefor, as will be readily understood from an inspection of Figs. 1 and 2. The section of the frame marked 2 is provided with a number of holes or sockets 6 adapted to receive a locking stud 7 which is mounted upon the other portion of the frame and is preferably held in locked position by means of a spring 8, but it is obvious that a set screw or other similar fastening might be substituted for this spring-actuated stud and still the same result be obtained.

In Fig. 4 I show a slightly modified construction, in which the two sections of the bow, instead of having the loops formed upon them, as shown in the preceding figures, are provided with outwardly extending ears 9 which, in the assemblage of the parts, are bent over to form bearings which operate substantially the same way as the loops, but this construction is inferior in strength and rigidity to the other and would be employed only for very cheap fret-saw frames.

I am aware that extensible frames of this character are not broadly new, and that a frame having functions analogous to those of the frame shown and described in this application is to be found in Letters Patent to W. C. Marston, No. 440,174, dated the 11th day of November, 1890. I do not wish to be understood as laying claim to anything found in this patent, but only to the peculiarities of my improved frame.

In the manufacture of the frame herein shown, the eyes or loops 5 are first formed in the ends of two straight bars or strips, preferably by first punching the ends of said strips and then bending said ends outward at right angles into the shape shown. The locking holes or sockets 6 are also preferably

formed at this time. The two strips are then assembled by passing each of them through the loops of the other, and afterward the outer ends are turned or bent down so that the two parts form the adjustable bow or back which the drawings show. The other necessary parts may then be attached.

The saw-frame thus formed is obviously very cheap in its construction, but at the same time it possesses great strength and durability. In changing it for the accommodation of saws of different lengths, the stud is lifted out of the socket, the two sections adjusted by sliding the two parts one upon the other until the frame is of the proper length and then reseating the stud.

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

1. In an adjustable hack-saw frame, the bow consisting of the two overlapping sections each provided with a laterally project-

ing loop or eye encircling and forming a bearing for the other section, and a locking device mounted upon one of the sections and engaging the other section, substantially as shown and described.

2. In a hack-saw frame, the bow consisting of the overlapping sections 1 and 2, each provided with a laterally extended loop through which the other section passes, in combination with a spring-actuated locking device mounted upon one of the sections, and suitable sockets formed in the other section for the reception of said locking device, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EPHRAIEM CHAQUETTE.

Witnesses:

PAUL W. STEVENS,
GEO. S. KNOPP.