E. C. ATKINS.

MACHINE FOR TEMPERING SAWS.

No. 62,591. Patented Mar. 5, 1867.

Fig 2.

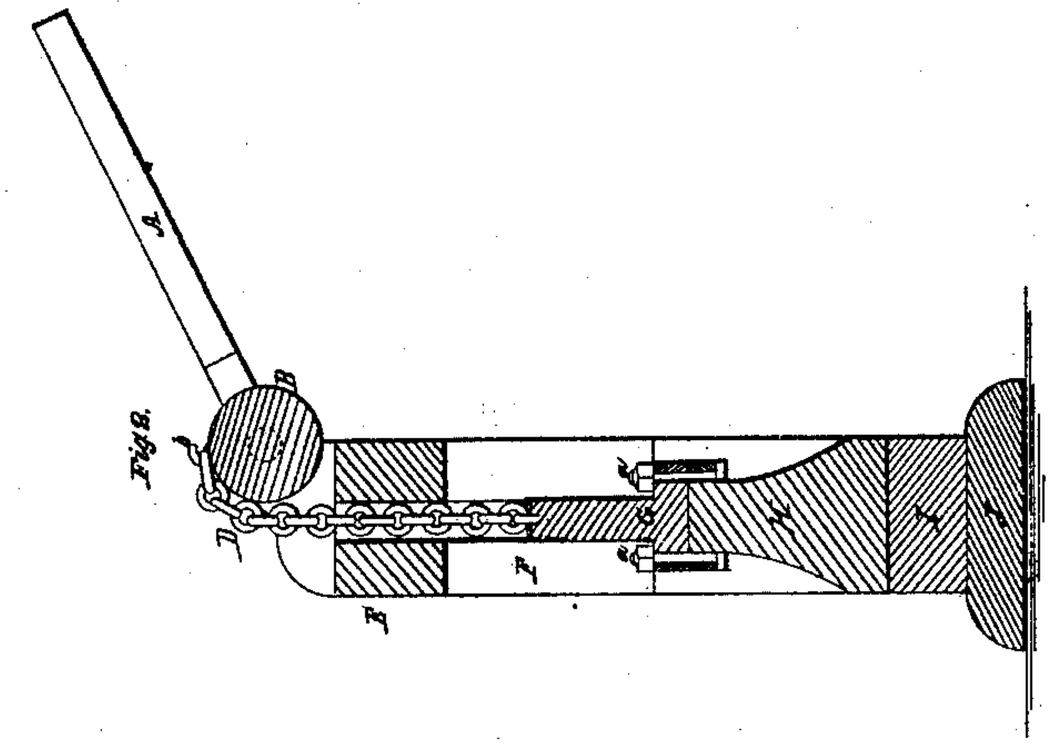
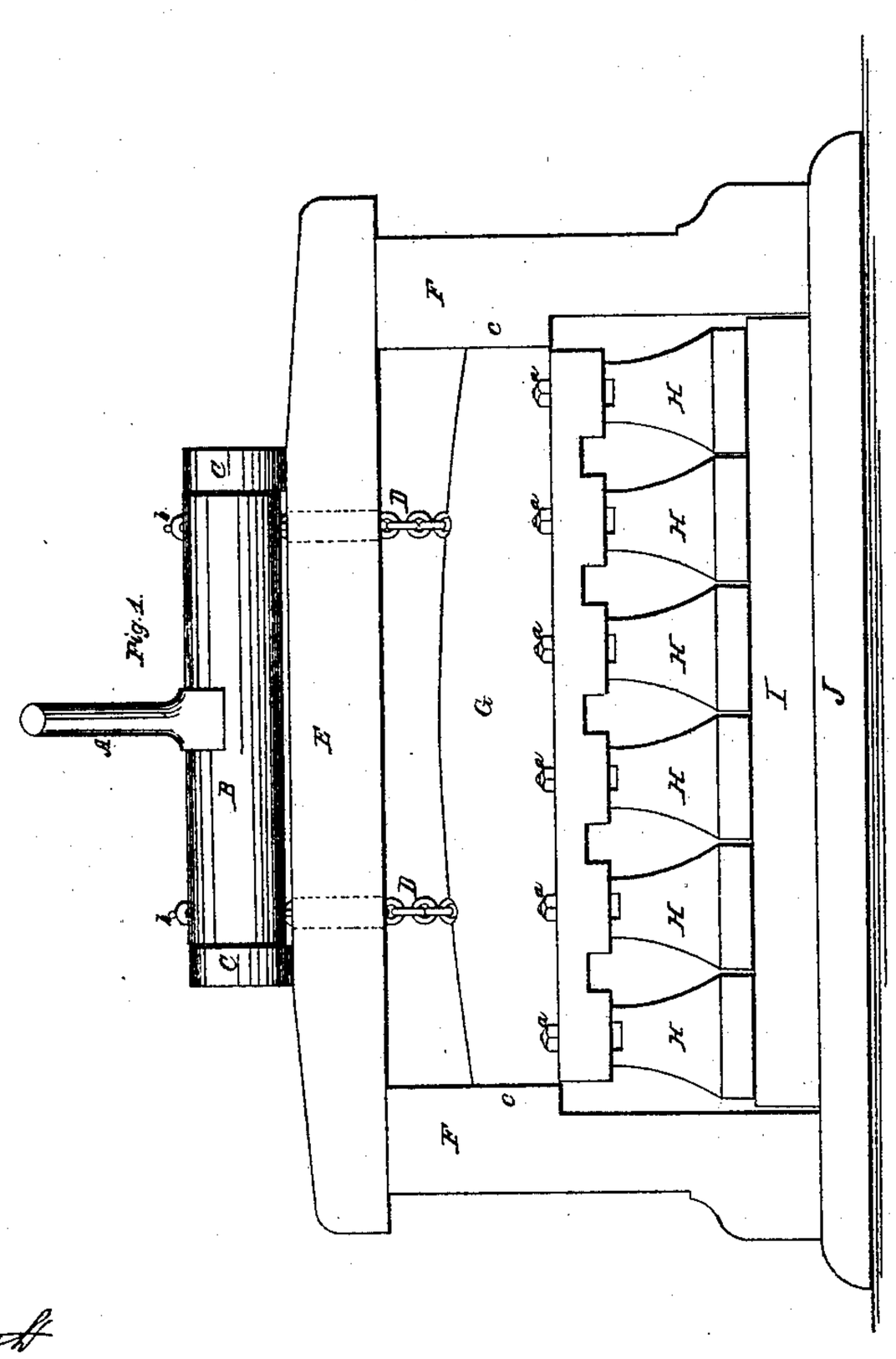


Fig 1.



Witnesses:
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United States Patent Office.

ELIAS C. ATKINS, OF INDIANAPOLIS, INDIANA.

Letters Patent No. 62,591, *dated March* 5, 1867.

IMPROVEMENT IN MACHINES FOR TEMPERING SAWS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ELIAS C. ATKINS, of the city of Indianapolis, Warren county, and State of Indiana, have invented a new and improved Machine for Tempering Saws; and I do hereby affirm that the following is a full and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is an elevation; and

Figure 2 is a cross-section.

It has always been a matter of difficulty to construct plates of large size for tempering saws, on account of the tendency of such plates to spring and warp when subjected to heat. The object of my invention is to so construct the plates used as to render it impossible to warp or spring them from a true line upon the surface which is brought in contact with the steel plate in the process of tempering. This result is accomplished by constructing the tempering plates in parts, or of separate pieces of iron, as set forth in the accompanying drawings.

The machine consists of the main uprights F F, cross-bar E resting on sleeper J, the sliding-bar G, sections H H H H H H, which are attached to cross-bar G by the bolts *a a a a a a*, chains D D, roller B, boxes C C, lever A, staples *b b*, fig. 1, and bed plate I, fig. 1.

In operating, the sliding-bar G is first raised two to four inches, by means of the lever A acting on the roller B, figs. 1 and 2, in which position the lower ends of the sections H and the upper surface of the bed plate I are heated by means of a fire passing between them. This being accomplished, the saw or plate to be tempered is placed in position upon the bed plate I, when the sliding-bar G, with its attachments, is gently lowered to contact with it, bringing the saw or plate to a straight and level position, and retaining it in such position during the process of tempering. The sliding-bar G is held in perpendicular position by means of grooves, into which it passes at *c c* in the uprights F F.

What I claim as my invention, is—

The sections H H H H H H, in combination with the sliding-bar G and bed I, constructed and operated substantially as set forth.

ELIAS C. ATKINS.

Witnesses:

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