

(No Model.)

H. FLATER.

DEVICE FOR JOINTING THE TEETH OF SAWS.

No. 355,307.

Patented Jan. 4, 1887.

Fig. 1.

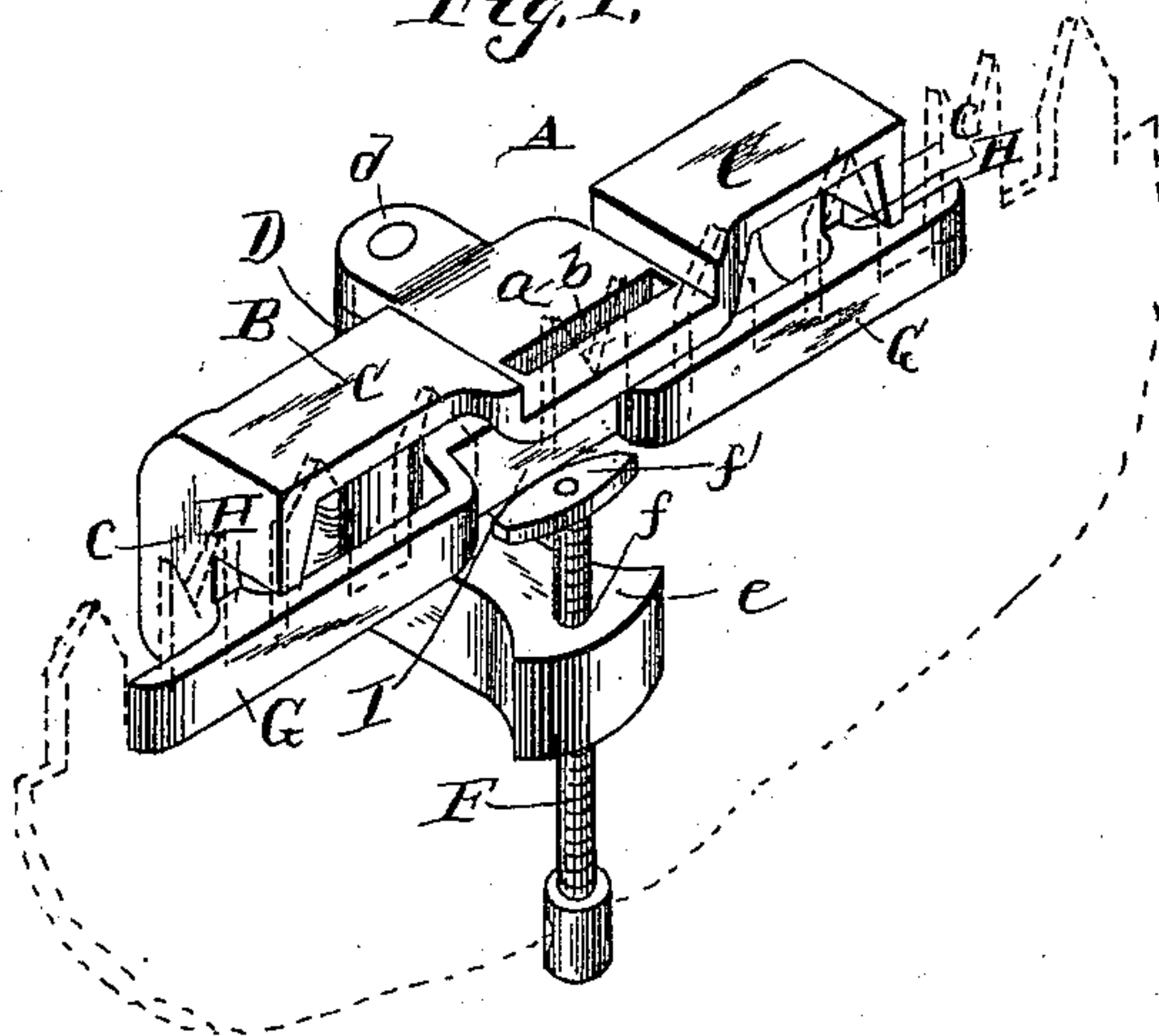


Fig. 2.

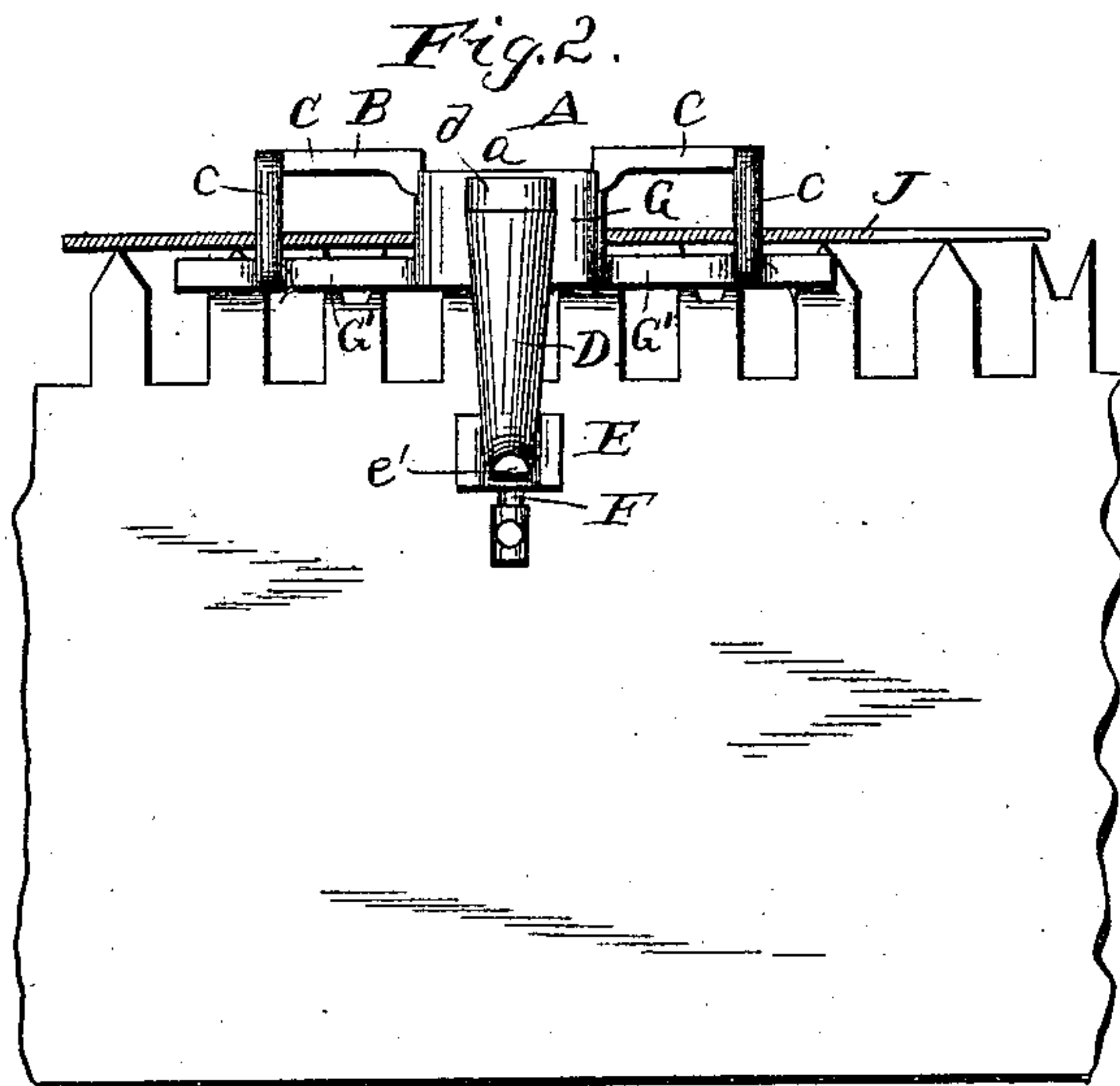


Fig. 4.

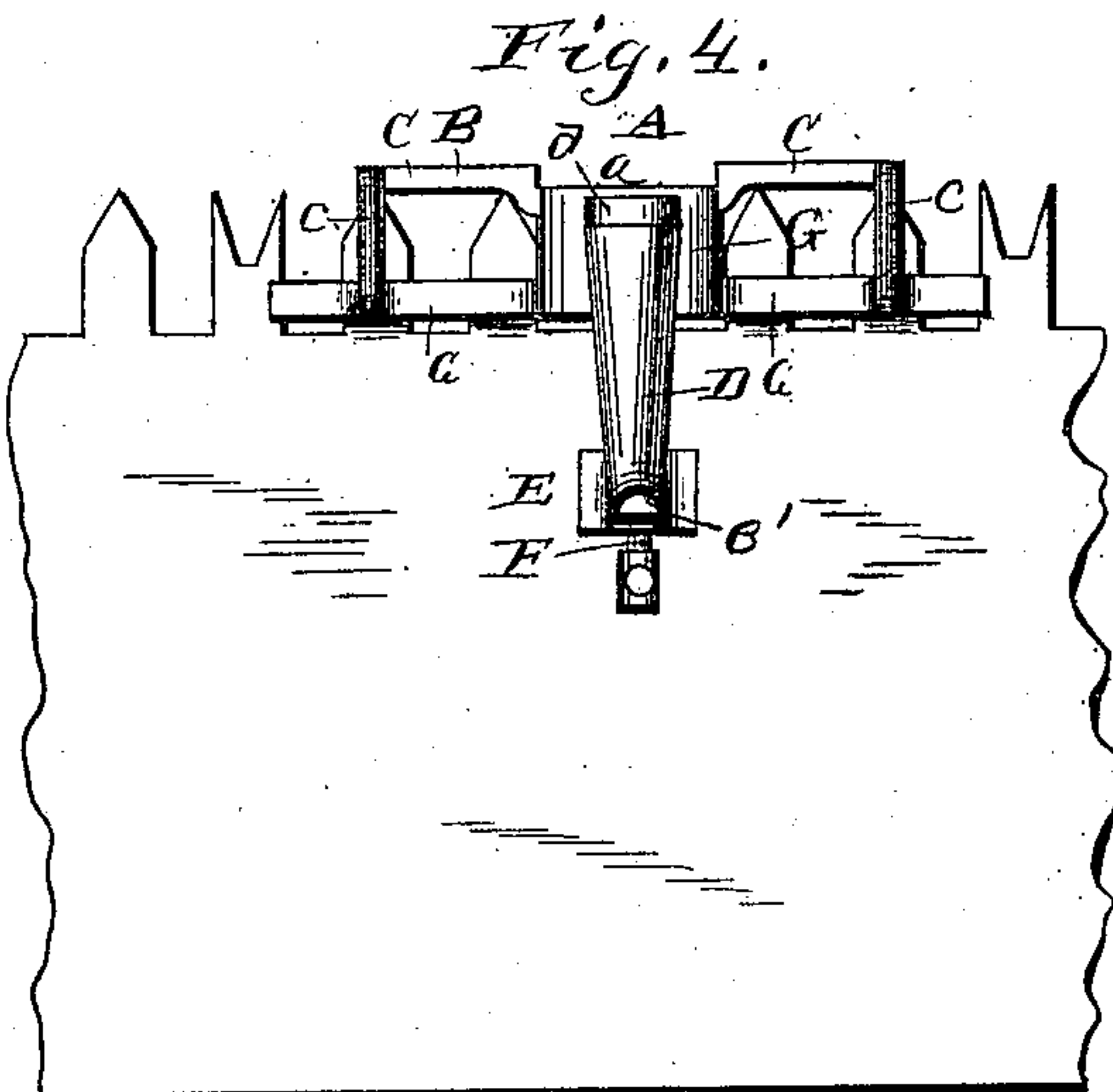
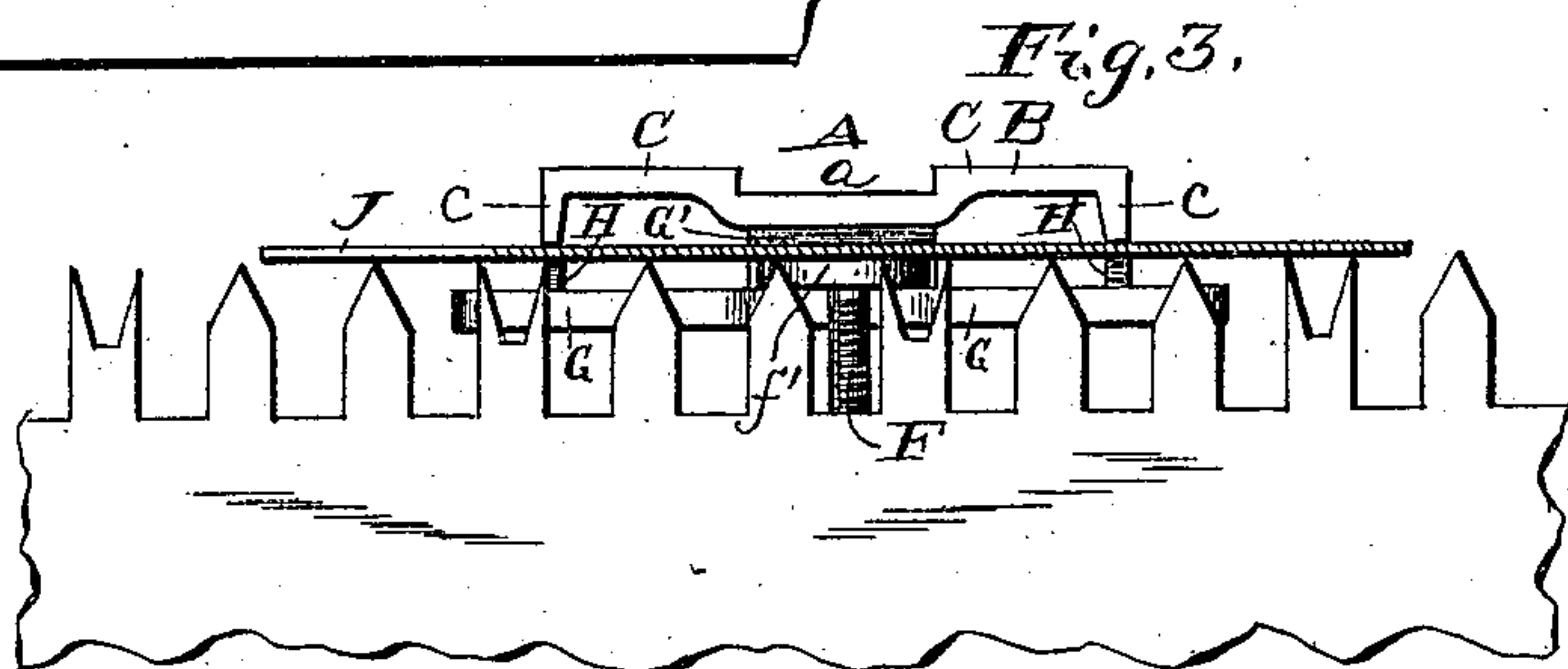


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

HENRY FLATER, OF FINDLAY, OHIO, ASSIGNOR OF ONE-HALF TO ABNER L. DAVIS, OF SAME PLACE.

## DEVICE FOR JOINTING THE TEETH OF SAWS.

SPECIFICATION forming part of Letters Patent No. 355,307, dated January 4, 1887.

Application filed August 26, 1886. Serial No. 211,941. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY FLATER, a citizen of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented a new and useful Improvement in Saw-Jointers, of which the following is a specification.

My invention relates to improvements in saw-jointers; and it consists of the peculiar combination and novel construction and arrangement of parts, substantially as herein-after fully described, and particularly pointed out in the claims.

The present invention is more particularly designed as an improvement upon the combined saw jointer and gage patented to me on the 22d day of April, 1884, by Letters Patent No. 297,513; and my invention has for its object to provide a saw-jointer of the class shown in my said patent with means for guiding the device on the saw as it is moved or reciprocated back and forth over the teeth of the saw, and, further, to provide the jointer with improved means for holding the file very firmly in place thereon, so that it is not liable to become detached when the device is in use.

In the accompanying drawings, Figure 1 is a perspective view of a saw-jointer embodying my improvements. Fig. 2 is a side elevation of my improved jointer adjusted upon a saw for jointing the saw-teeth thereof. Fig. 3 is a similar view, corresponding to Fig. 2, looking at the opposite side of the saw. Fig. 4 is a side elevation of the device adjusted upon a saw for jointing the raker-teeth thereof.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates my improved jointer for saw and raker teeth, which comprises a head, B, having a central depressed portion, *a*, provided with a longitudinal vertical slot, *b*, which is located midway of the sides of the depressed portion. On opposite sides of this slotted depressed portion the head has integral arms C, which are elevated or raised above the depressed portion, and the extremities of the arms have depending flanges *c*, which are beveled on their inner opposing faces to adapt them to more snugly fit the inclination of the saw-teeth. The central de-

pressed portion of the head has a lateral arm, *d*, to which is swiveled a vertical standard, D, that rises from a horizontal base, E, said base having two arms, *e e'*, which project laterally from opposite sides of the vertical standard, the arm *e* having a vertical threaded opening, *f*, formed therethrough, in which works a vertical binding or clamping screw, F, that has a loosely-swiveled head, *f'*, at its upper end. This part of my invention is substantially the same as the device shown in my prior patent, hereinbefore referred to, and no novelty is herein claimed on the said device.

My present improvement consists in providing the head of the jointer with guides G, which are arranged beneath the head and formed integral therewith. These guides are arranged in a horizontal position and in line with each other, and the outer ends of the guides are connected to the depending flanges *c*, while the inner ends of the said guides are connected to a depending flange, G', that is formed integral with the head at the middle thereof. A space, I, is left between the contiguous inner ends of the guides G, to permit the head *f* of the clamping-bolt to pass between the end of said guide and bear against the file, so as to clamp the latter to the jointer. The vertical lugs or flanges *c* at the ends of the head are provided with recesses or notches H, which are formed therein above the guides, as shown, so that a file, as J, can be fitted in the notches and the clamping-screw turned to press the file against the upper edges of the notches or slots, as shown. The outer sides or faces of the guides are made straight and smooth, so that when the jointer is in use they will slide very freely against one of the faces of the saw.

This being the construction of my improved saw-jointer, the operation thereof is as follows: When it is desired to file a raker-tooth, the device is adjusted on the saw so that the upper ends of the particular tooth which it is desired to file shall pass through the vertical slot in the central depression of the head, while the saw-teeth on opposite sides of the raker-tooth being operated upon fit in the spaces between the central depression and the flanges *c* of the said head. The raker-tooth is filed



while the device is in this position, after which the jointer is fitted on another tooth and the operation again repeated.

To joint the saw-teeth, a file is placed in the notches or recesses H in the depending flanges, and the clamping-screw is turned to press the file against the upper sides of the said notches, to thereby securely connect the file to the jointer.

The device is adjusted upon the saw so that the file rests on the teeth thereof, and the smooth faces of the guides bear or impinge against one side of the saw. The device and the file connected thereto are moved or reciprocated lightly over the saw-teeth to joint them, and the guides serve to keep the device in its proper position on the saw.

I direct especial attention to the end flanges, having the notches or recesses and the guides arranged beneath the head and out of contact with each other at their inner ends, to leave an intermediate space through which the head of a clamping-bolt is adapted to pass to clamp or hold a file in the slots or recesses of the head, as therein lies the gist of my present invention.

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

1. In a saw-jointer, a head having the de-

pending flanges provided with the notches or spaces in one edge, and the guides arranged beneath the head and having a space, I, in combination with a standard, and a clamping-screw working in the standard and passing through the space I, to bear against a file which is to be fitted in the notches, substantially as described, for the purpose set forth.

2. In a saw-jointer, a head provided with the slotted central depression, the depending integral flanges having the notches or slots in one edge, the integral guides arranged beneath the notches or slots in the flanges and connected at their inner ends with a central depending flange on the head, the inner ends of the said guides being separated to provide an intermediate space, a standard connected to the head, and a clamping-screw working in the standard and having a head which passes through the space between the ends of the guides, substantially as described, for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HENRY FLATER.

Witnesses:

E. B. DAVIS,

W. H. WHITELEY.