

(No Model.)

S. BUCKINGHAM.
SAW JOINTER AND GAGE.

No. 548,948.

Patented Oct. 29, 1895.

Fig. 1.

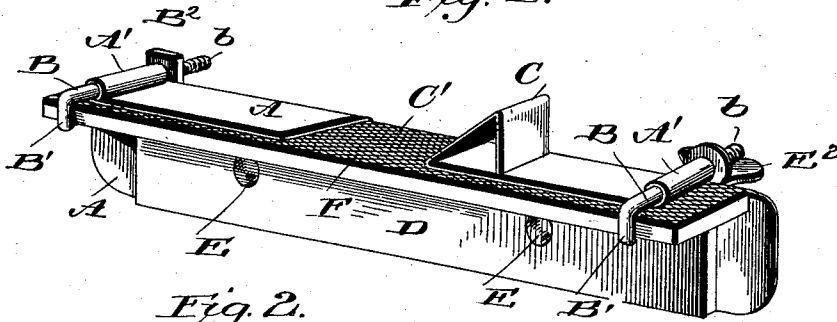


Fig. 2.

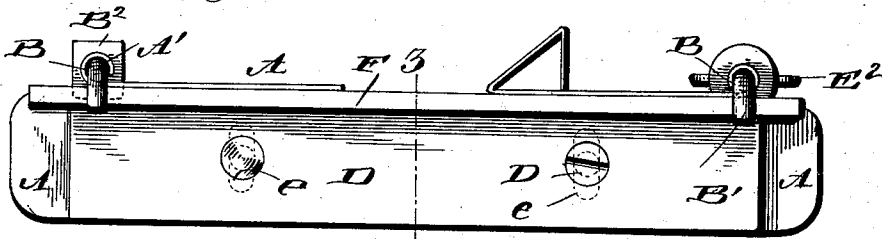


Fig. 6. I'

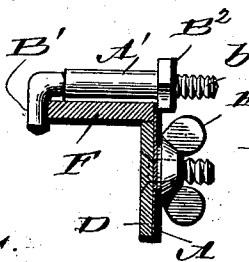
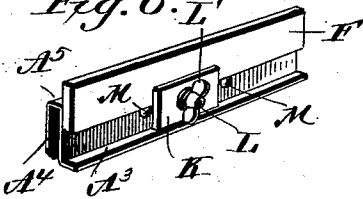


Fig. 3.

Fig. 4.

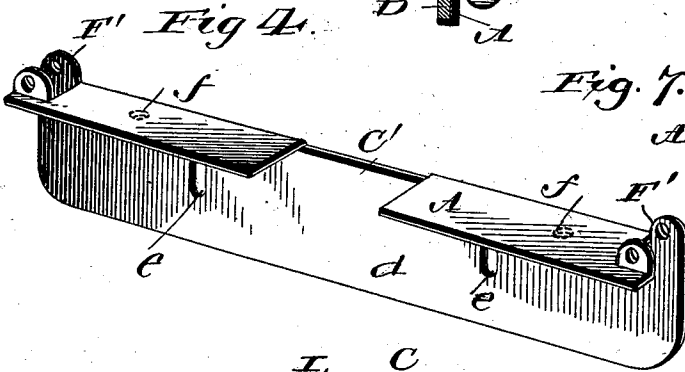
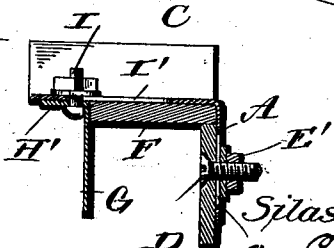


Fig. 7.



Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

SILAS BUCKINGHAM, OF MARSEILLES, OHIO.

SAW JOINTER AND GAGE.

SPECIFICATION forming part of Letters Patent No. 548,948, dated October 29, 1895.

Application filed March 22, 1895. Serial No. 542,842. (No model.)

To all whom it may concern:

Be it known that I, SILAS BUCKINGHAM, a citizen of the United States, residing at Marseilles, in the county of Wyandot, State of Ohio, have invented certain new and useful Improvements in Saw Jointers and Gages, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in saw jointers and gages; and it has for its object, among others, to provide a simple and cheap construction by which better results may be attained in a more satisfactory manner.

It has for a further object to provide a simple and light jointer and gage that may be made of any suitable material or struck up of sheet metal, and to provide it with a thumb or finger rest formed from a portion of the metal which is struck out of the body portion and bent into the proper shape or form.

It has also for its object to provide for the ready and easy application of the file and for its adjustment whenever necessary.

In one of its forms the invention is applicable to various uses, as will hereinafter be made apparent.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of my improved saw jointer and gage. Fig. 2 is a side elevation of the same. Fig. 3 is a vertical cross-section thereof on the line 3 3 of Fig. 2. Fig. 4 is a perspective view of the body portion of a different form with the other parts detached. Fig. 5 is a vertical cross-section through still another form of the invention. Fig. 6 is a perspective view, on a smaller scale, of still another form. Fig. 7 is a vertical cross-section through Fig. 6 with the file removed and adapted for filing rakers.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates the body portion

of the device, which I construct of any suitable material, preferably of sheet metal stamped or struck up into the desired form with one portion at right angles to the other, as seen in Figs. 1 and 2 and still better in Fig. 4. The ends of the upper portion in the form shown in Figs. 1, 2, and 3 are rolled over to form the eyes A' for the reception of the screw rods or bolts B, one end of each of which is bent or turned at a right angle to form the hook B', as seen in Figs. 1, 2, and 3, and the other ends of which are screw-threaded, as seen at b in Figs. 1 and 3. The upper portion of the body is separated for a portion of its length from the right-angled portion, and this separated portion is bent up to form the thumb or finger piece C, which is provided with the vertical wall and the inclined wall to give strength thereto, and the opening C' thus formed performs an important function, as will hereinafter be made apparent.

D is a wear-plate held against the inner face of the vertical portion of the body in any suitable manner, as by the screws E, as shown in Fig. 1, or by bolts and thumb-nuts E', as seen in Fig. 3. The openings through which the bolts pass may be elongated, as indicated by dotted lines at e in Figs. 2 and 4, to permit of the necessary adjustment of the wear-plate when desired.

F is the file. It is held between the top edge of the wear-plate and the horizontal part of the body portion, as seen best in Fig. 3, and is retained in position by the hooked ends of the bolts B engaging over the outer edge thereof, as shown, and the bolts are strained by the nuts B', which may, if desired, be in the form of thumb-nuts, as seen at the right of Figs. 1 and 2.

Instead of turning up the ends of the horizontal part of the body portion to form the eyes A' the same may be constructed to form the ears F', as seen in Fig. 4, for the reception of the rods or bolts or other means employed for holding the edge of the file and securing it in place.

The body portion may be sometimes provided in its horizontal portion with holes, as indicated by dotted lines at f in Fig. 4, through which may be placed pins (not shown) to keep the device from falling off the saw when filing rakers.

The operation will be readily understood from the foregoing description, when taken in connection with the annexed drawings.

The file may be reversed when necessary and the parts adjusted as occasion may require.

The form shown in Fig. 5 is the same in all its essential features as those already described. It has in addition thereto, however, the plate G, which has a horizontal flange H', by which it is held in position by the bolts and nuts I, working in the elongated slots I' of the horizontal part of the body portion, and the depending portion extends parallel with the vertical portion of the body portion, the file being clamped between the two parallel vertical portions, as shown in said Fig. 5. Any required width of file may be employed and firmly held. When the device is employed upon the rakers of the saw, the depending portion G serves to keep the device from falling from the saw, which is confined between the two vertical portions, the file of course being removed, so that the teeth of the saw will project through the opening C' in the horizontal part of the body portion, as will be readily understood.

In the form shown in Figs. 6 and 7 the body portion consists of the single piece with a horizontal flange A³, the depending portion A⁴, parallel with the main portion, and the horizontal portion A⁵, connecting the two vertical portions, this horizontal portion being provided with an opening A⁶, as seen in Fig. 7. An adjustable throat-plate K is provided, which is held in place on a screw-stud L, projecting from the main portion and provided with a thumb-nut L', as shown. Projecting from the outer face of the vertical main part of the body portion are the teats or projections M, as seen in Fig. 6, and which are spaced a distance apart slightly greater than the length of the throat-plate, as seen best in Fig. 6. As seen in Fig. 6, the device is set for jointing the saw, the file resting upon the projections M and held by the throat-plate and its holding-nut. In Fig. 7 the file has been removed and the throat-plate screwed up flat

against the vertical portion of the body and the device is as used for filing the rakers of the saw, the saw being placed between the parallel vertical portions of the device and the rakers filed by the file as they project through the opening A⁶ in the horizontal connecting portion of the body part.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What is claimed as new is—

1. A saw jointer and gage comprising a body portion having an opening in its upper portion and a thumb piece formed by the metal removed to provide said opening, an adjustable plate, means for detachably holding a file parallel with the upper portion and between the same and the upper edge of said plate, and means for preventing displacement of the jointer and gage from a saw, substantially as described.

2. The combination with a sheet metal body having an opening in its upper part, of a thumb piece formed by the metal removed to provide said opening, hooked rods passed through bearings on the body portion, nuts on the ends of said rods, and an adjustable plate parallel with the vertical portion of the body, substantially as described.

3. The combination of the body portion with an opening and a thumb-piece formed of the material removed to provide said opening, the plate and its adjusting and holding means, and means for detachably and adjustably holding a file, as set forth.

4. The combination of the sheet metal body having the ends of its horizontal portion turned over to form eyes, the rods passed through said eyes and having hooked ends, and the nuts on the other ends of said rods, substantially as specified.

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

SILAS BUCKINGHAM.

Witnesses:

CLARENCE L. ELLIS,
JNO. C. McCLEARY.