No. 800,852. PATENTED OCT. 3, 1905.

M. KAPP.

SAW JOINTER.

APPLICATION FILED JAN. 3, 1905.

3 SHEETS—SHEET 1.

Fig. 1.

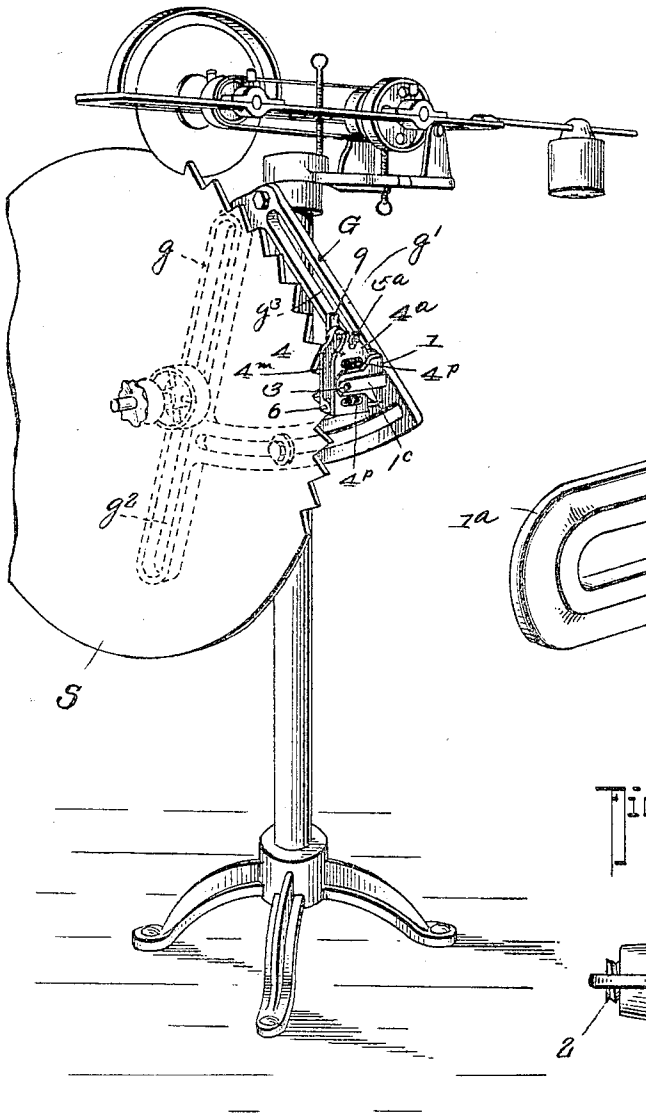


Fig. 2.

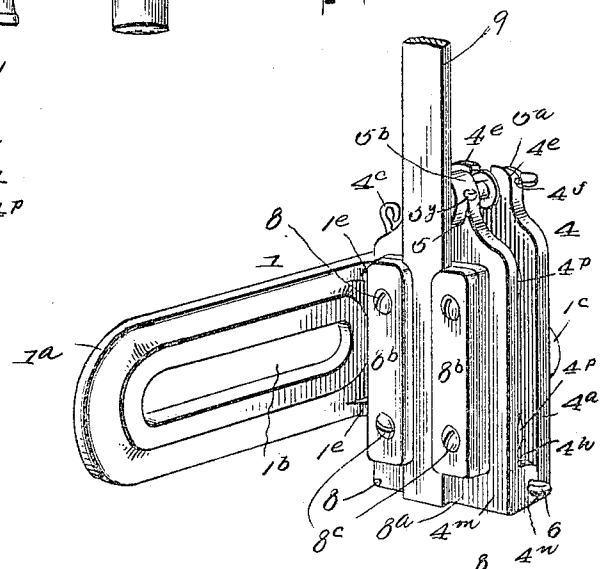
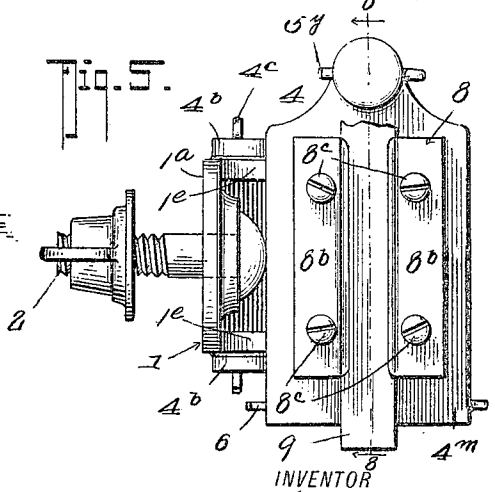


Fig. 5.



WITNESSES:

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3 SHEETS—SHEET 2.

Fig. 3.

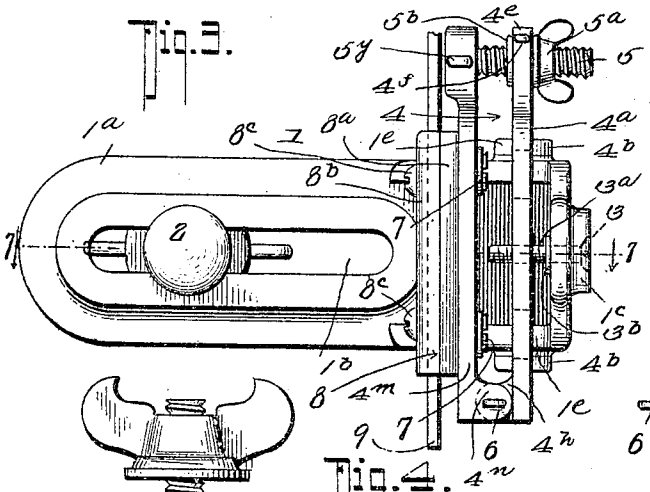


Fig. 6.

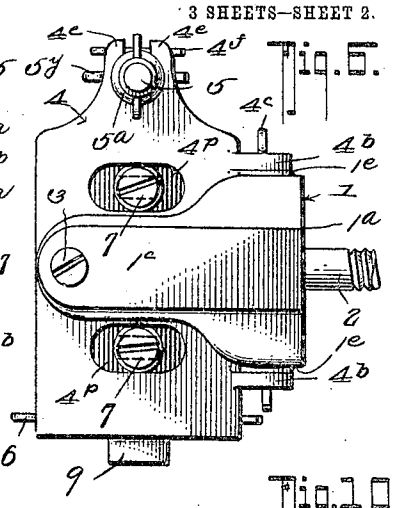


Fig. 4.

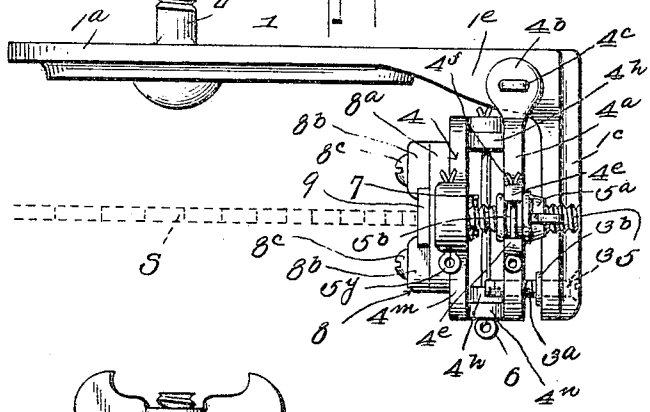


Fig. 10.

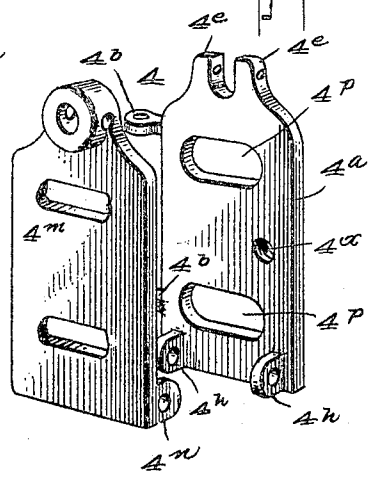


Fig. 7.

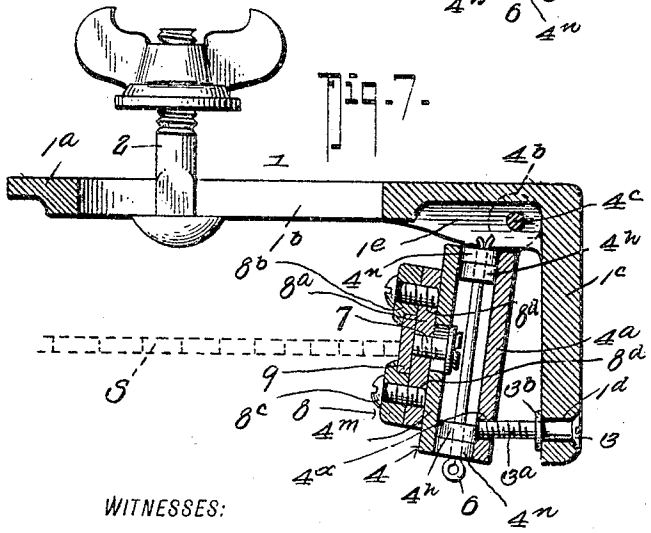
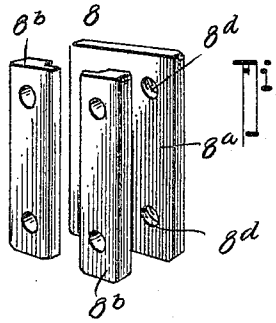


Fig. 11.



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3 SHEETS--SHEET 3.

Fig. 8.

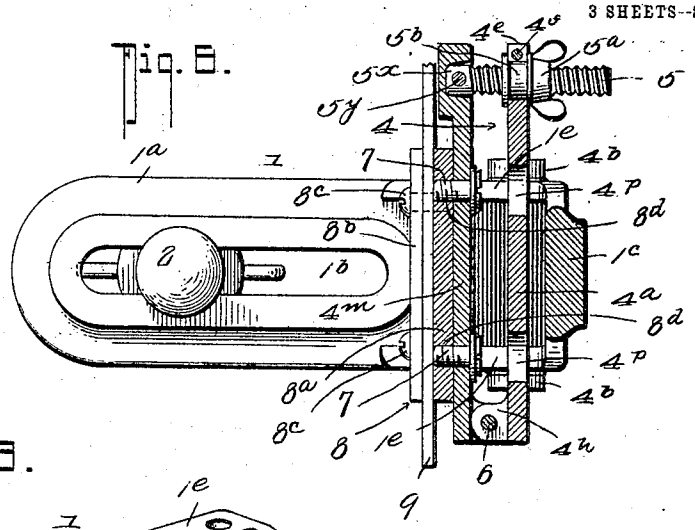


Fig. 9.

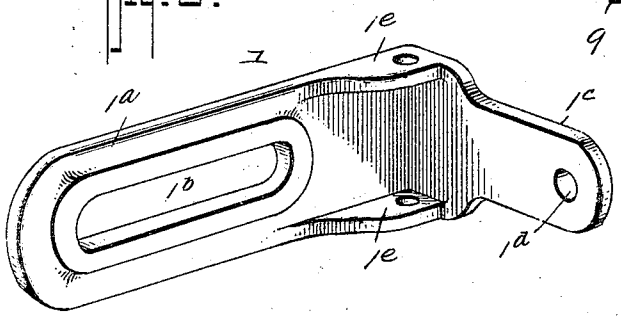


Fig. 13.

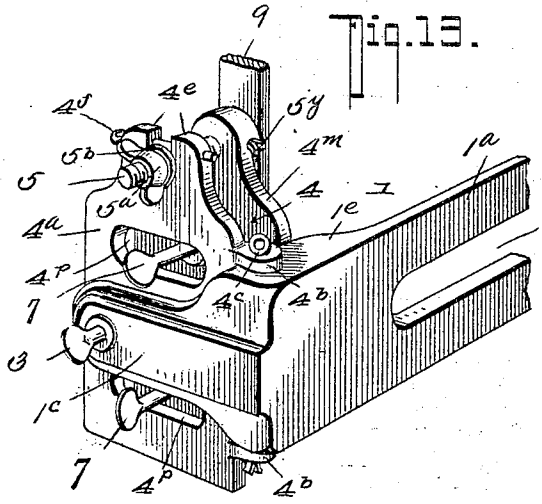
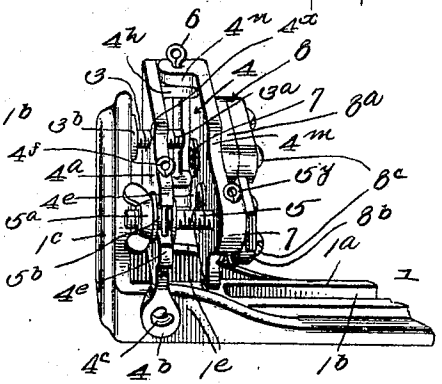


Fig. 12.



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UNITED STATES PATENT OFFICE.

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SAW-JOINTER.

No. 800,852. Specification of Letters Patent. Patented Oct. 3, 1905.

Application filed January 3, 1905. Serial No. 239,510.

To all whom it may concern:

Be it known that I, MARTIN KAPP, residing at Bellingham, in the county of Whatcom and State of Washington, have invented certain new and useful Improvements in Saw-Jointers, of which the following is a specification.

My invention relates to certain new and useful improvements in apparatus for jointing shingle or other circular saws, and primarily has for its object to provide a device of this character of a very simple economical construction which will readily and effectively serve its intended purposes.

Generically, my invention consists of a base or casting adapted to be bolted to the saw gummer-frame and so arranged as to be laterally adjustable to allow for its use in connection with saws of different diameters. To this base is pivotally and adjustably secured a file-carrying frame which includes an adjustable file-carrier so arranged that the portion of the file may be altered in various directions to allow for the different sizes of saws and to permit the use of the same devices on saws which are mounted close to or at some distance from the gummer-frame.

Again, my invention seeks to provide a device of this character which can be readily attached to the ordinary gummers without the necessity of altering or changing the form thereof.

With other objects in view, which will be hereinafter apparent, the invention also consists in certain novel construction, combination, and arrangement of parts, all of which will be first described in detail and then specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view showing my invention as applied for use. Fig. 2 is a side elevation of the parts shown in Fig. 1. Fig. 3 is a front elevation of my invention. Fig. 4 is a top plan view thereof. Fig. 5 is a front end view thereof. Fig. 6 is a back end view of my invention. Fig. 7 is a horizontal section on the line 7 7 of Fig. 3. Fig. 8 is a cross-section on the line 8 8 of Fig. 5. Fig. 9 is a detail perspective view of the base member detached. Fig. 10 is a detail perspective view of the file-carrying frame detached. Fig. 11 is a detail perspective view of the file-carrying clamps which coöperate with the file-carrying frame. Fig. 12 is a perspective view of my invention looking from another position. Fig. 13 is a detail form showing a slightly-modified form of screw members 7 7 and 3.

Referring now to the accompanying drawings, in which like numerals and letters of reference indicate like parts in all of the figures, 1 designates the base, which comprises a body portion 1^a, having a longitudinal slotway 1^b, through which the securing-bolt 2 passes. Integrally formed with the body portion 1^a of the base 1 and at right angles thereto is a supplemental body portion 1^c, apertured, as at 1^d, to receive the adjusting-screw 3, hereinafter referred to.

4 designates what I term the "file-carrier frame," and the said frame comprises a rectangular plate 4^a, having a pair of horizontal lugs 4^b 4^b, through which and through lugs 1^e 1^e of the base 1 the pivot-rivets 4^c pass to pivotally secure the plate 4^a to the base 1 to permit the plate 4^a to be swung on a vertical axis to swing in a horizontal plane.

4^x designates a threaded aperture in the plate 4^a to receive the threaded end 3^a of the adjusting-screw 3, which freely turns in the aperture 1^d and is prevented from axial movement with respect to the supplemental body portion by the collar 3^b. The screw 3 serves to limit the swinging movement of the plate 4^a.

At the top the plate 4^a is formed with a pair of vertical lugs 4^e 4^e, between which a winged nut 5^a, having a grooved collar 5^b, is held to turn. To hold the collar 5^a in place between the lugs 4^e 4^e, I join the said lugs by a cross-piece 4^f, which engages with the grooved collar 5^b, as clearly shown in Fig. 6. At the bottom and on the front face thereof the plate 4^a is formed with a pair of vertically-disposed lugs 4^h 4^h, apertured to receive the rivets 6 6, which also pass through coöperating lugs 4^n 4^n of a second plate 4^m of substantially the same shape as the plate 4^a. The plates 4^a and 4^m are pivotally connected to one another by their lugs 4^h 4^n and the rivets 6, so that the plate 4^m may be swung in a vertical plane on a horizontal axis. At the upper end the plate 4^m is apertured to receive the end 5^x of the threaded bolt 5, which is pivotally secured to the plate 4^m by the rivet 5^y, and the said bolt 5 passes through and coöperates with the winged nut 5^a and serving together with the said winged nut to limit the movement of the plate 4^m.

4^p 4^p designate horizontally-elongated apertures in the plate 4^m, through which the securing-screws 7 pass.

8 designates the file-holding clamp, which

comprises the clamp base-plate 8^a, against which the file 9 is held by the side clamps 8^b, which are secured to the plate 8^a by the screws 8^c 8^c, as shown, to allow of vertical adjustment of the file in the clamp. The plate 8^a is apertured, as at 8^d 8^d, to receive the securing-screws 7 7, by means of which the plate 8^a is securely held against the plate 4^m.

By providing the plate 4^m with apertures 4^p 4^p, through which the screws 7 7 pass, the file-holder can be laterally adjusted to allow for variations in the distance between the saw and the body portion 1^a of the base 1.

So far as described the manner in which my invention operates and is applied for use will be best understood by reference to Figs. 1 and 2 of the drawings, from which it will be seen that the saw S is mounted on the gummer-frame G in the usual manner, the gummer G comprising the two legs g g', which are provided with longitudinally-adjustable slots g^2 g^3, as shown. My invention is mounted directly on the gummer-frame G, the bolt 2 passing through the body portion 1^a and the leg g' of the gummer-frame. By providing the slot 1^b the device can be easily adjusted to provide for use in connection with saws of various diameters, as will be clearly understood by reference to the drawings. By simply adjusting the screws 3 the file can be set at right angles to the faces of the saw and straight across the teeth. (See Fig. 4.) By adjusting the bolt 5 the file can be held vertically or moved at an angle to the horizontal whenever it may be found desirable. To provide for using my invention on saws which are held at a greater or lesser distance from the plate 1^a, it is only necessary to loosen the screws 7 7, when the file-clamp may be moved laterally to bring the file into proper alinement with respect to the saw, the apertures 4^p 4^p permitting the passage of a suitable screw-driver to manipulate the screws 7.

From the foregoing description, taken in connection with the accompanying drawings, it is thought the complete construction, operation, and many advantages of my invention will be readily apparent to those skilled in the art to which it appertains, and I desire to say that slight changes in the detailed construction, operation, and design of the various parts may be made without departing from the invention or the scope of the appended claims.

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

1. In a device of the character stated, a base comprising a main body portion having an elongated slot to permit of the passage of a securing-bolt, a supplemental body portion extending at right angles to the said body portion and formed integrally therewith, a file-carrying frame hinged to said base to swing toward or from said supplemental body portion, means coöperating with the supplemental body portion and the frame for adjusting said frame toward or from said supplemental body portion, and means carried by the frame for receiving and holding a file.

2. An apparatus of the character stated, comprising a base, a plate pivotally mounted on said base to swing on one axis, a second plate pivotally secured to said first plate to swing on an axis at right angles to the first-mentioned axis, and a file-holding clamp carried by said second plate substantially as shown and described.

3. An apparatus of the character described, comprising a base, a plate pivotally mounted thereon to swing on one axis, a second plate pivotally secured to said first plate to swing on an axis at right angles to said first-mentioned axis, and a file-holding clamp adjustably mounted on said second plate, substantially as shown and described.

4. An apparatus of the character described, comprising a base, a plate pivotally mounted thereon to swing on one axis, a second plate pivotally secured to said first plate to swing on an axis at right angles to said first-mentioned axis, and a file-holding clamp adjustably mounted on said second plate, means for limiting the movement of said first plate and means for limiting the movement of said second plate substantially as shown and for the purposes described.

5. An apparatus of the character described, comprising a base, a plate pivotally mounted on said base to swing on one axis, a second plate pivotally secured to said first plate to swing on an axis at right angles to the first-mentioned axis, a file-holding clamp transversely adjustably mounted on said second plate, means for limiting the movement of said first plate and means for limiting the movement of said second plate.

6. A device of the character described, comprising in combination, a base consisting of an apertured main body portion and a supplemental body portion extending at right angles to the main body portion, a securing-bolt passing through said main-body-portion aperture, a file-carrying frame comprising a plate pivotally mounted on said base to swing on an axis transverse to the main body portion, an adjusting-screw carried by said supplemental body portion, said plate having a threaded aperture to receive said adjusting-screw, a second plate pivotally secured to the first plate on an axis at right angles to the pivot-axis of the first plate, an adjusting-bolt carried by said second plate, a nut for said bolt carried by said first plate, said second plate having longitudinal apertures, a file-clamp, screws passing through said second-plate aperture for securing said file-clamp to said second plate, substantially as shown and described.

7. A device of the character described, com-

prising in combination, a base, consisting of a main body portion having an elongated aperture, and a supplemental body portion extending at right angles to the main body portion, a securing-bolt passing through said main-body-portion aperture, a file-carrying frame comprising a plate pivotally mounted on said base to swing on an axis transverse to the main body portion, an adjusting-screw carried by said supplemental body portion, said plate having a threaded aperture to receive said adjusting-screw, said plate having a pair of transverse slots, a second plate pivotally secured to the first plate on an axis at right angles to the pivot-axis of the first plate, an adjusting-bolt carried by said second plate, a nut for said bolt carried by said first plate, said second plate having elongated apertures, a file-clamp, screws passing through said second-plate aperture for securing said file-clamp to said second plate substantially as shown and described.

8. A device of the character described, comprising in combination, a base consisting of a main body portion having an elongated aperture for the passage of a securing-bolt, and a supplemental body portion extending at right angles to the main body portion, a file-carrying frame comprising a plate pivotally mounted on said base to swing on an axis transverse to the main body portion, an adjusting-screw carried by said supplemental body portion, said plate having a threaded aperture to receive said adjusting-screw, said plate also having a pair of transverse slots, a second plate pivotally secured to the first plate on an axis at right angles to the pivot-axis of the first plate, an adjusting-bolt pivotally secured to said second plate, a winged nut including a grooved hub portion, said first plate having a pair of lugs to receive said winged-nut hub portion between them, a transverse pin connecting said first-plate lugs to hold said winged nut in place, said adjusting-bolt of the second plate passing through said winged nut and coöperating therewith, said second plate having elongated apertures, a file-clamp comprising a base portion and clamping members secured thereto, securing-screws passing through the apertures of the second plate into the base portion of the file-clamp to secure the said file-clamp to the second plate, said elongated apertures of said first plate and said elongated apertures of said second plate being in alinement with one another and so arranged as to permit of the passage of a suitable tool through the apertures of the first plate to engage the file-clamp-securing screws, all being arranged substantially as shown and for the purposes described.

MARTIN KAPP.

Witnesses:
E. E. WHITE,
W. T. LAUBE.