

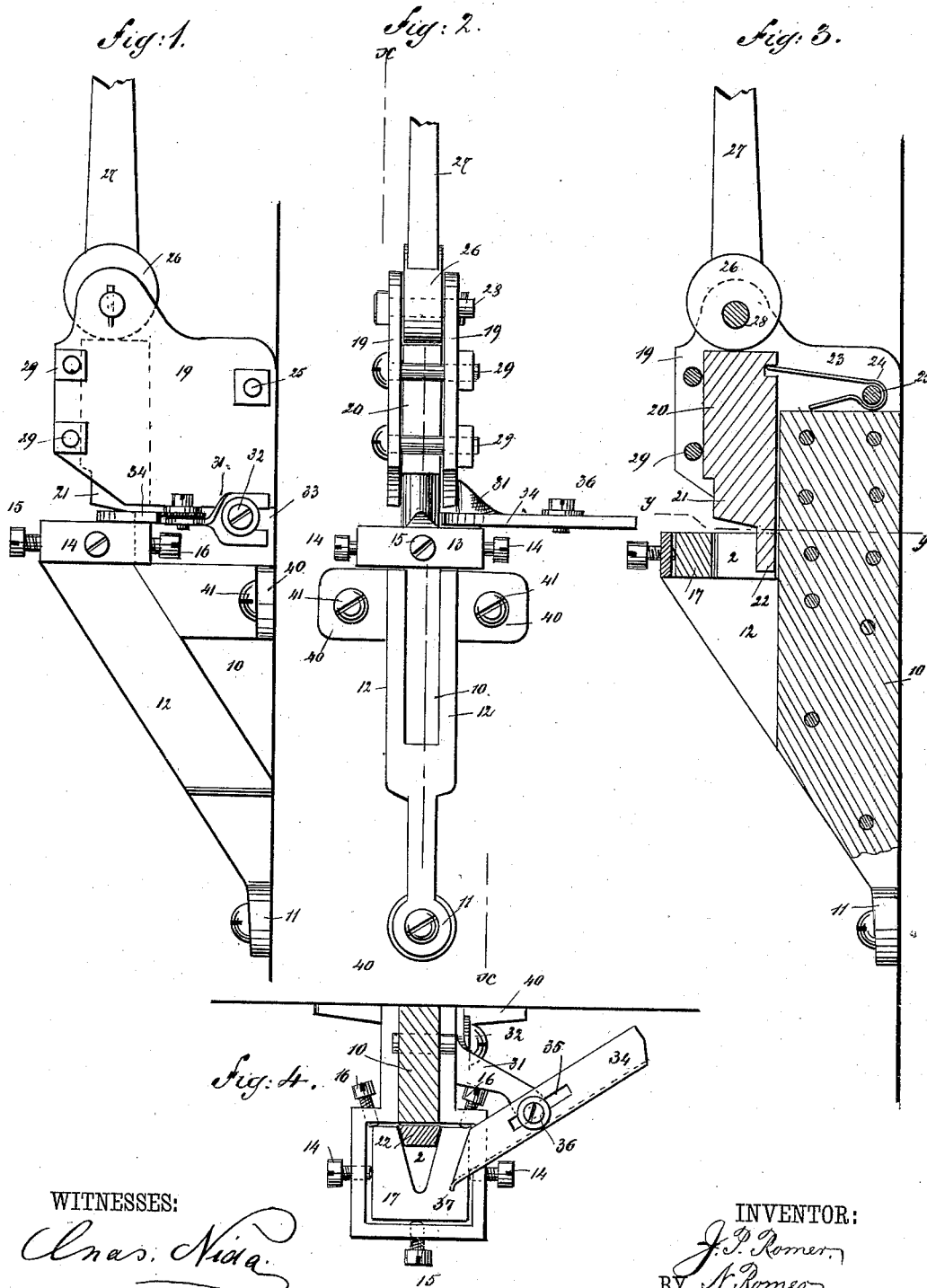
(No Model.)

J. P. & N. ROMER.

SAW GUMMER.

No. 383,191.

Patented May 22, 1888.



WITNESSES:

Chas. Nida
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INVENTOR:

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UNITED STATES PATENT OFFICE.

JOHN P. ROMER AND NICHOLAS ROMER, OF GOWANDA, NEW YORK, ASSIGN-
ORS TO ROMER BROS. MANUFACTURING CO., OF SAME PLACE.

SAW-GUMMER.

SPECIFICATION forming part of Letters Patent No. 383,191, dated May 22, 1888.

Application filed December 7, 1887. Serial No. 257,307. (No model.)

To all whom it may concern:

Be it known that we, JOHN P. ROMER and NICHOLAS ROMER, both of Gowanda, in the county of Cattaraugus and State of New York, have invented a new and Improved Saw-Gummer, of which the following is a full, clear, and exact description.

This invention relates to saw-gummers of the class illustrated, described, and claimed in Letters Patent No. 251,303, granted to Philander Sisson on the 20th day of December, A. D. 1881, the object of the present invention being to improve the construction of the gummer forming the subject-matter of said patent.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a side view of the improved form of gummer. Fig. 2 is a face view thereof. Fig. 3 is a sectional elevation taken on line $x x$ of Fig. 2, and Fig. 4 is a sectional plan view taken on line $y y$ of Fig. 3.

In the drawings, 10 represents the main body of the gummer, which is composed of a strip of iron, at the lower end of which there is formed an eye, 11. To the side faces of the lower portion of the body 10 there are riveted or otherwise rigidly connected upwardly-extending diagonal plates 12, above which plates there is secured a die-holder, 13, said die-holder being provided with side adjusting-screws, 14, a front adjusting-screw, 15, and rear adjusting-screws, 16, which screws serve to hold a die, 17, in any desired position, the die resting directly upon the upper ends of the diagonal braces 12. In this die 17 there is formed a V-shaped opening, 2, said opening corresponding in form with that of the desired interdental spaces of the saw.

Above the die 17 there are secured to the body 10 two side plates, 19, which plates extend outward beyond the forward perpendicular face of the body, and between said plates and in advance of the body there is mounted a movable bar, 20, that is rectangular in cross-section, except that at a point near the lower end there is formed a die, 21, of a form corresponding with that of the opening 2 in the die 17. A guiding-lip, 22, extends downward

behind the die 21, said lip entering the opening formed in the die 17. The bar 20 is normally upheld by a spring, 23, formed with an eye, 24, through which there is passed a bolt, 25, this arrangement greatly increasing the force and elasticity of the spring. Above the bar 20 there is mounted a double-faced eccentric, 26, which is made integral with or rigidly connected to a lever arm or handle, 27, the eccentric being pivotally supported by a bolt, 28, which extends through the upper portions of the side plates, 19. In advance of the bar 20 there are arranged two bolts, 29, which pass through the plates 19 and serve as guides for the forward edge of the bar, and at the same time all wear due to the reciprocation of the bar may be taken up by tightening the nuts of the bolts 29.

To the right-hand side of the body 10 there is adjustably connected a bracket, 31, said bracket being held to the body by a set-screw, 32, which passes through a slot, 33, formed in the bracket, the arrangement being such that the bracket may be moved toward or from the front of the gummer. This bracket serves as a support for the gage 34, which gage is formed with a slot, 35, through which there is passed a set-screw, 36, that engages with the bracket 31, and upon the point of the gage there is formed a toe, 37, which enters the recesses between the teeth of the saw and regulates the size and slant of such teeth as they are formed by the gummer.

Just below the die-holder 13 the body 10 is provided with laterally-extending ears 40, that are apertured to receive retaining bolts or screws 41, by which screws or bolts the gummer is secured to the bench or other stationary support, the arrangement being such that the saw-body may be swung over the bench when the dies are used for shearing, a greater range of motion being thus secured than would be possible if the gummer were supported at points above the die 17, as is the case in the construction illustrated in the Sisson patent, above referred to.

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

1. In a saw-gummer, the combination, with the supporting-frame, of the bracket 31, ad-

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justably secured to the frame, and the gage 34, adjustably secured to the bracket and provided with the toe 37 for engaging the recesses between the teeth of the saw, substantially as described.

2. In a saw-gummer, the combination, with a main body, of diagonal braces secured to the side faces thereof, a die-holder mounted above said braces and provided with side, front, and rear adjusting-screws, a stationary die carried by the holder, a reciprocating die mounted above the stationary die, and a means for forcing the reciprocating die downward, substantially as described.

3. In a saw-gummer, the combination, with a main body, of diagonal side braces secured thereto, a die holder mounted above the braces and provided with side, front, and rear adjusting-screws, a die supported by the diagonal braces and mounted within the holder, a reciprocating bar formed with a die and

mounted between side plates that are secured to the body of the gummer, a spring formed with an eye, 24, arranged in connection with the reciprocating bar and mounted as described, guiding and clamping bolts arranged in advance of the bar, and an operating cam and lever, as and for the purpose stated.

4. A saw-gummer frame consisting of the bar 10, provided with the eye 11 at its lower end, and with the laterally-extending and apertured ears 40, the upwardly-extending diagonal plates 12, a die-holder above the upper ends of the said plates, and side plates, 19, secured to bar 10 above the die-holder, substantially as herein shown and described.

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Witnesses:

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