

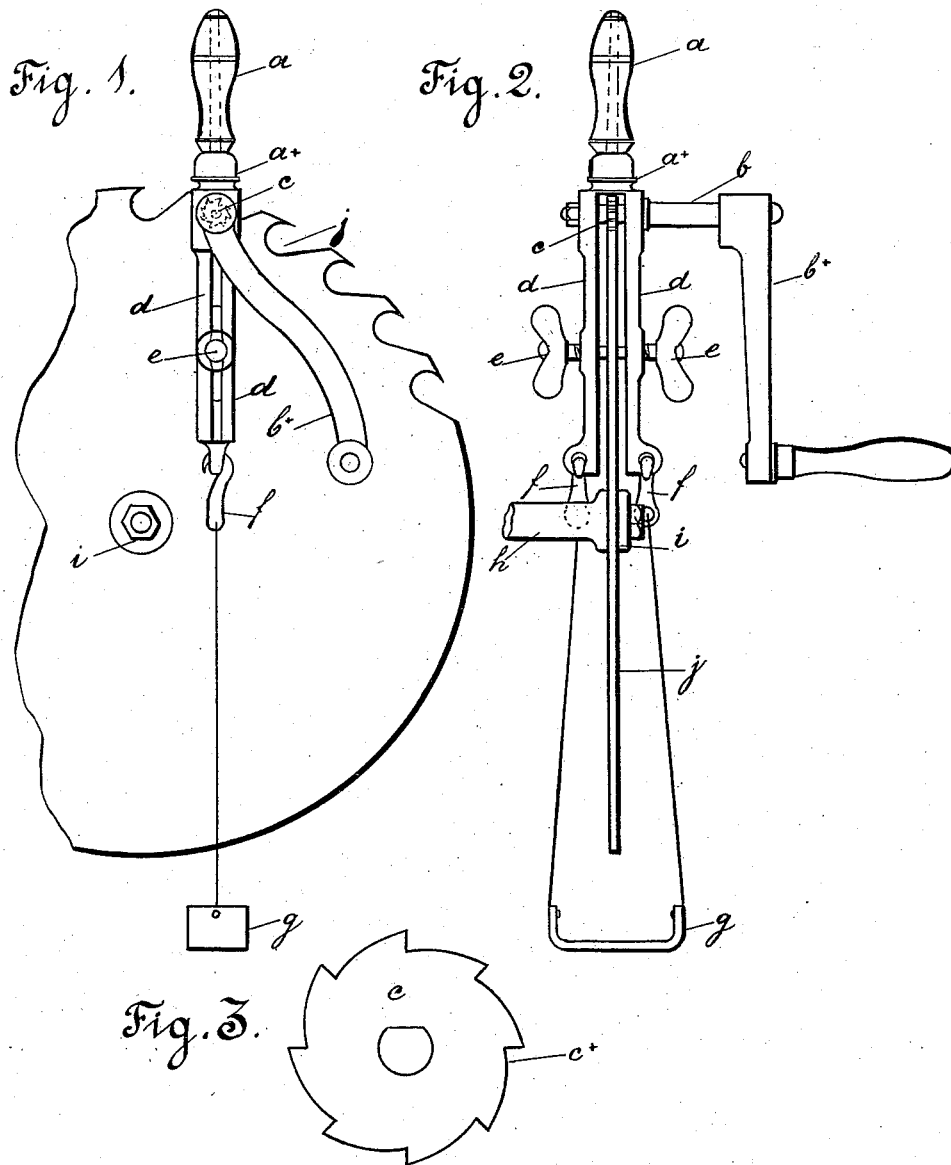
(No Model.)

S. R. MATHEWSON.

SAW GUMMER.

No. 345,388.

Patented July 13, 1886.



Witnesses.

S. A. Owen
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Inventor.

Sabra R. Mathewson

By his Att'y.

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UNITED STATES PATENT OFFICE.

SEBRA R. MATHEWSON, OF PLEASANT VALLEY, ASSIGNOR OF ONE-HALF
TO ROBERT BAKER, OF PORTERSVILLE, CALIFORNIA.

SAW-GUMMER.

SPECIFICATION forming part of Letters Patent No. 345,388, dated July 13, 1886.

Application filed October 10, 1885. Serial No. 179,561. (No model.)

To all whom it may concern:

Be it known that I, SEBRA R. MATHEWSON, of Pleasant Valley, Tulare county, State of California, have invented an Improved Saw-Gummer; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings.

My invention relates to an improved means for forming teeth in saw-plates and re-forming teeth in worn saw-plates.

The following description fully explains the nature of my said invention and the manner in which I proceed to construct, apply, and use the same, the accompanying drawings being referred to by figures and letters.

Figure 1 represents a front elevation of a saw-plate and the gummer device. Fig. 2 represents an end view of a saw-plate and the gummer device. Fig. 3 represents an enlarged view of the gummer.

My improved saw-gummer device is simple in its construction and application. The metallic shoulder *a*^{*} is prolonged in a yoke-frame, *d*, to which the treadle-hooks *f* are attached. A pin projects from the shoulder, to which the handle *a*, preferably of wood, is attached and held by a screw. A shaft, *b*, extends through the yoke-frame and holds the crank *b*^{*}, for revolving the gummer-plate, which is set on the shaft. The teeth of the gummer-plate are cut at nearly a right angle, Fig. 3, having a square edge conforming to the thickness of the gummer-plate. The action of the gummer on the saw-plate is similar to that of any reaming-tool. The saw-plate is attached to a spindle, *h*, fixed on a bench. The spindle, enlarged, is near the point of attachment to the saw-plate to a beveled disk, and has at its extreme end a thread, which receives a disk and nut, *i*, by which the saw-plate is

firmly set to the opposite disk of the spindle. The adjusting thumb-screws *e* pass through the yoke-frame and set firmly to the saw-plate. The feed of the gummer-plate is regulated by the treadle *g*, suspended from hooks connected to the yoke-frame.

The operation of my improved device is as follows: The saw-plate is placed on the spindle fixed to a bench, and is firmly held by the disk and nut *i*. The device is placed over the saw-plate, which passes between the yoke-frame *d*, and extends to the gummer-plate *c*, and is adjusted to any desired position by the thumb-screws *e*. The gummer-plate is revolved by the crank, and its feed is regulated to any required depth in the saw-plate by the pressure on the treadle. The width of the tooth in its formation is regulated by moving the gummer through the medium of the handle *a*.

The advantages of my improved gummer are its easy application and adjustment, its thorough action in forming teeth in saw-plates, and re-forming teeth in worn saw-plates.

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

In a saw gummer, the gummer-plate *c* and handle *a*, in combination with yoke-frame *d*, shaft *b*, crank *b*^{*}, adjusting thumb-screws *e*, and treadle *g*, substantially as described, and for the purpose set forth.

In testimony whereof I have hereunto set my hand and seal.

S. R. MATHEWSON. [L. S.]

Witnesses:

A. B. SMITH,
FRANK P. TAYLOR,
G. C. KNAPP.