

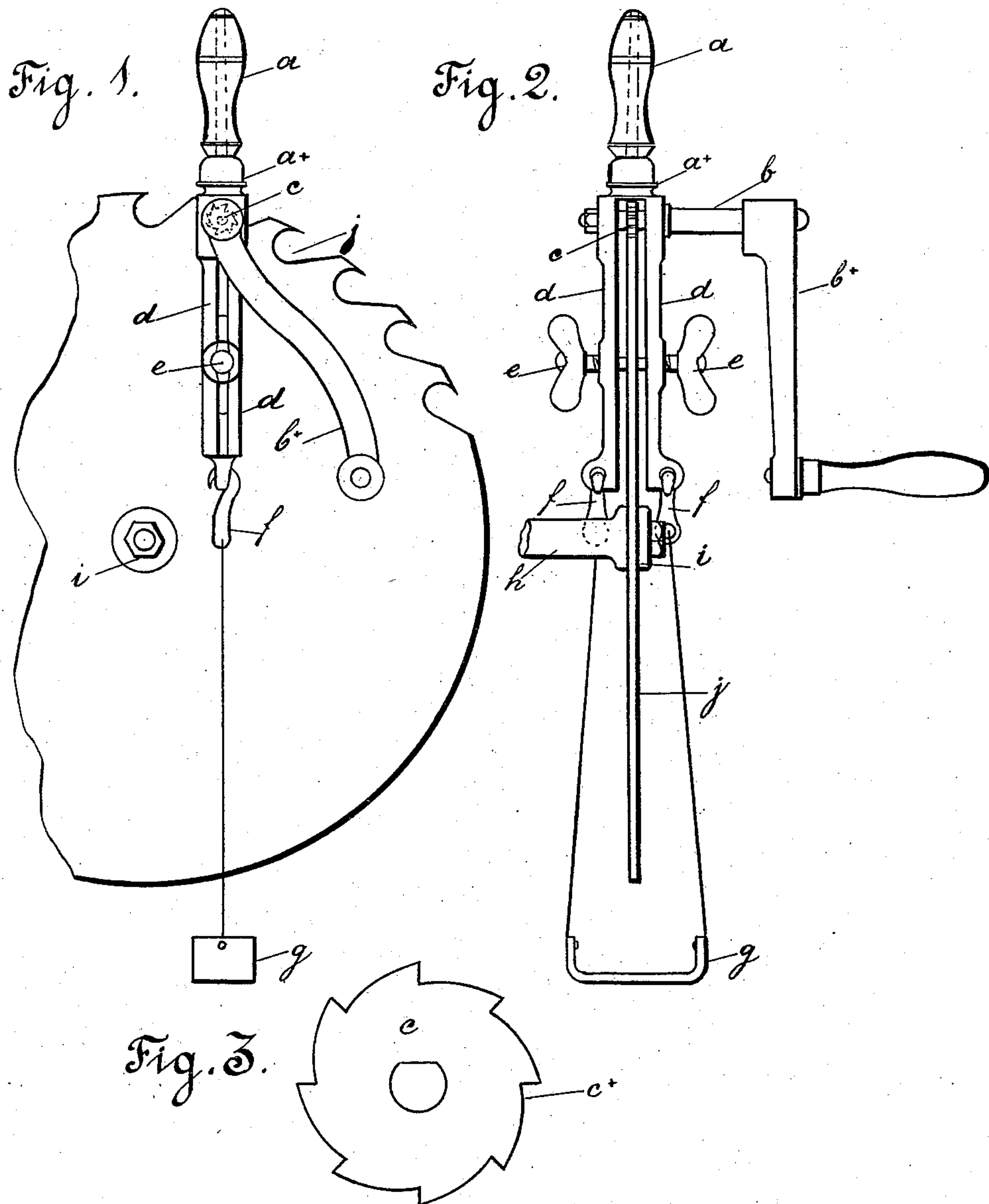
(No Model.)

S. R. MATHEWSON.

SAW GUMMER.

No. 345,388.

Patented July 13, 1886.



Witnesses.

S. A. Owen

J. C. Deane

Inventor.

Sabra R. Mathewson

By his

Att'y.

Alphonso B. Smith

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.