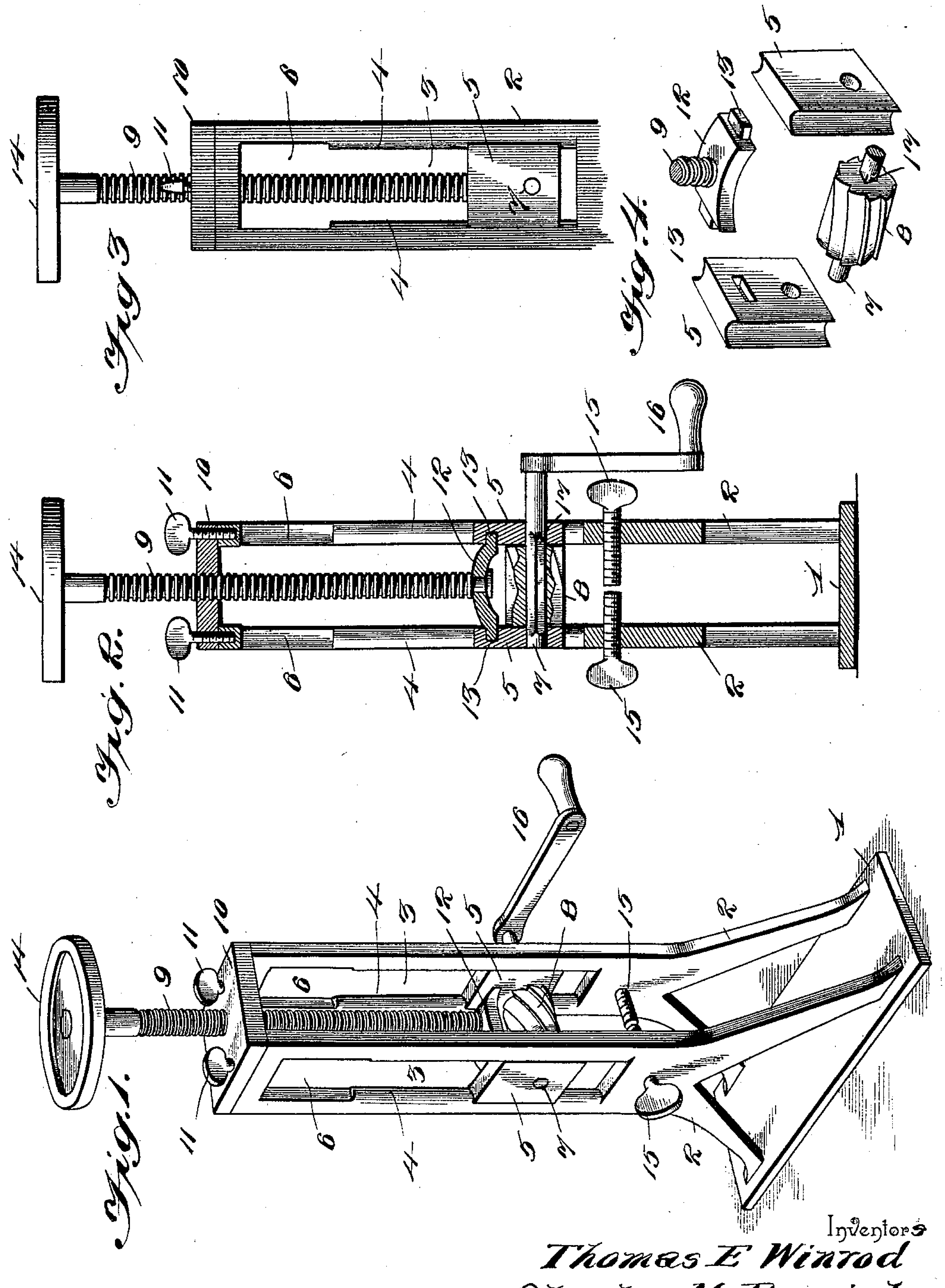
(No Model.)

T. E. WINROD & C. M. DERRICK.

SAW GUMMER.

No. 582,567. Patented May 11, 1897.



Witnesses

Inventors
Thomas E. Winrod
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By *their* Attorneys,
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UNITED STATES PATENT OFFICE.

THOMAS E. WINROD AND CHARLES M. DERRICK, OF GIBSONVILLE, CALIFORNIA.

SAW-GUMMER.

SPECIFICATION forming part of Letters Patent No. 582,567, dated May 11, 1897.

Application filed August 28, 1896. Serial No. 604,190. (No model.)

To all whom it may concern:

Be it known that we, THOMAS E. WINROD and CHARLES M. DERRICK, citizens of the United States, residing at Gibsonville, in the county of Sierra and State of California, have invented a new and useful Saw-Gummer, of which the following is a specification.

Our invention relates to saw-gummers, and has for its object to provide a simple and efficient device of this class in which the saw-blade may be firmly held against lateral vibration during operation, and whereby bits may be readily interchanged without detaching the parts of the frame.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings, Figure 1 is a perspective view of a saw-gummer constructed in accordance with our invention. Fig. 2 is a vertical section of the same, taken in the plane of the axis of the cutter or bit. Fig. 3 is a partial side view of the same. Fig. 4 is a detail view in perspective of the slides, bit, and follower detached from the frame.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a base from which rise the uprights 2, provided with transversely-alined vertical guide-slots 3, the edges of the uprights at opposite sides of the slots being cross-sectionally ribbed or V-shaped, as shown at 4, to fit in corresponding grooves in the contiguous edges of the slides 5, and the upper portions of said ribs being cut away, as shown at 6, to allow the slides to be displaced laterally when arranged in the plane of the cut-away portions. These slides constitute bearing-blocks in which is mounted the spindle 7 of the cutter or bit 8, the extremities of said cutter being in contact with the inner surfaces of the slides and being thereby held from axial displacement. A feed-screw 9 is threaded in a cap-plate 10, connecting the upper extremities of the uprights and secured thereto by means of thumb-screws 11, and said feed-screw is swiveled at its lower extremity in a follower 12, provided with reduced extremities 13, fitting in recesses in the inner sides of the slides, whereby when the slides are dismounted in the manner above described the follower may be detached therefrom, as indicated in Fig. 4. The upper end of the feed-screw is fitted with a hand-wheel 14.

In order to hold the saw-blade in position for gumming, we arrange opposite axially-alined clamping-screws 15 in the uprights contiguous to the lower ends of the slots 3, adapted to impinge at their inner extremities against opposite side surfaces of the saw-blade, and inasmuch as these clamping-screws are arranged contiguous to the toothed periphery of the saw it will be understood that they are adapted to hold the latter against vibration, and hence increase the facility and rapidity of performing the operation. The spindle of the cutter or bit is provided with a crank or operating-handle 16, which may be manipulated by the right hand of the operator, while the left hand is employed in securing the proper adjustment of the cutter or bit by means of the feed-screw.

From the above description it will be seen that the device is simple and may be manufactured at a small cost, and that cutters or bits of different sizes to suit the saw to be gummed may be introduced with facility after dismounting the slides from the guides in which they are fitted, the cutter being provided with an angular bore to receive the angular portion 17 of the spindle.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described our invention, what we claim is—

A saw-gummer having parallel guides connected at one end by a cap-plate, said guides being longitudinally slotted to form opposite convexed guide-faces which are cut away contiguous to the cap-plate, slides mounted respectively in the guides and having concave faces to fit the opposite convex faces thereof, said slides being coextensive with said cut-away portions of the guides, whereby they are adapted to be introduced and removed at the cut-away portions, a follower arranged be-

tween the planes of the slides and provided with lateral projections fitting removably in registering sockets in the facing sides of the slides, a feed-screw threaded in said cap-plate and swiveled at its extremity in the follower, a spindle mounted in bearings respectively in the slides and having an intermediate cross-sectionally angular portion, a gumming cutter or bit removably fitted upon said angular portion of the spindle and adapted to be dismounted therefrom when the slides are removed from the guides, means for communicating rotary motion to the spindle, and saw-clamping devices, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

THOS. E. WINROD.
C. M. DERRICK.

Witnesses:
I. S. STEWARD,
H. BUCKLEY.