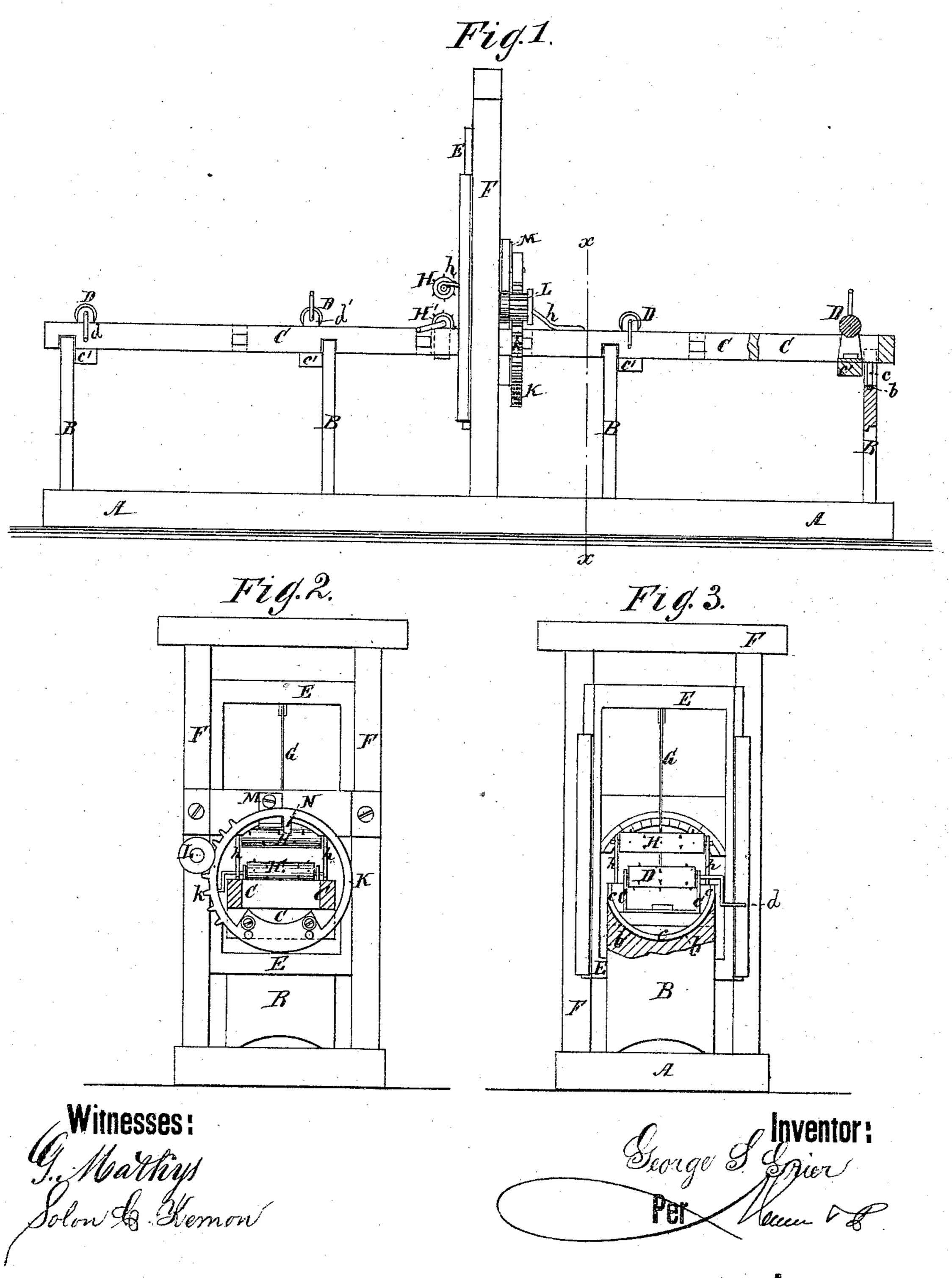
G. S. GRIER. Sawing-Machines.

No.147,389.

Patented Feb. 10, 1874.



Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE S. GRIER, OF MILFORD, DELAWARE.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. 147,389, dated February 10, 1874; application filed October 8, 1873.

To all whom it may concern:

Be it known that I, George S. Grier, of Milford, in the county of Kent and State of Delaware, have invented a new and Improved Bevel-Sawing Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side elevation; Fig. 2, a cross-section in line x x of Fig. 1. Fig. 3 is a front

View.
The inv

The invention relates to means whereby timber for ship-building and other purposes may be beveled or cut into irregular forms.

The invention will first be fully described in connection with all that is necessary to a full understanding thereof, and then clearly pointed out in the claim.

A is the base, from which rise the uprights B, on which is supported the frame or feedtable C. The uprights are concavely curved on top at b, and in the concavities rest the arcbars c, which enable the frame to cant or turn easily under suitable force. The frame is prevented from longitudinal motion by the crosspieces c', which are placed on the frame so as to come between two of the uprights B B. On the upper side of frame are journaled the rolls D, on which the timber rests, and by whose rotation it is advanced to the saw. They are provided with hand-cranks d, and supported in suitable frames d'. E is the saw-frame that reciprocates vertically on the posts F F and

G, the saw being attached thereto in any preferred manner. It is obvious that a circular, band, or sash saw may be used instead with equal advantage. H H' are the spiked rolls, that gripe and hold the timber in close proximity to the saw, the former being journaled in springs h h, and thus adapted to accommodate itself to different thicknesses of timber. To the frame C is rigidly attached a circumjacent circle-plate, K, having on its periphery spurs k, which are operated by a pinion, L, moved by any suitable lever or other mechanism. The circle-plate or ring K is provided with a plate, M, thereabove, of suitable curvature, while it has also an inwardly-projecting stud, N, which forms with the plate a stop when the frame is in a horizontal plane. From this stud, as a starting-point, the ring is moved in order to bring the frame to the desired cant, and the angle thereof is shown on the indicator-plate M.

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

Patent, is—

The combination, with vertically-reciprocating saw, of the canting frame C, the rack-ring and pinion, and the feed-table, having arcbars c, supported in concavities of the uprights, as and for the purpose described.

GEO. S. GRIER.

Witnesses:

ROBT. D. GRIER, FRED. A. GRIER.