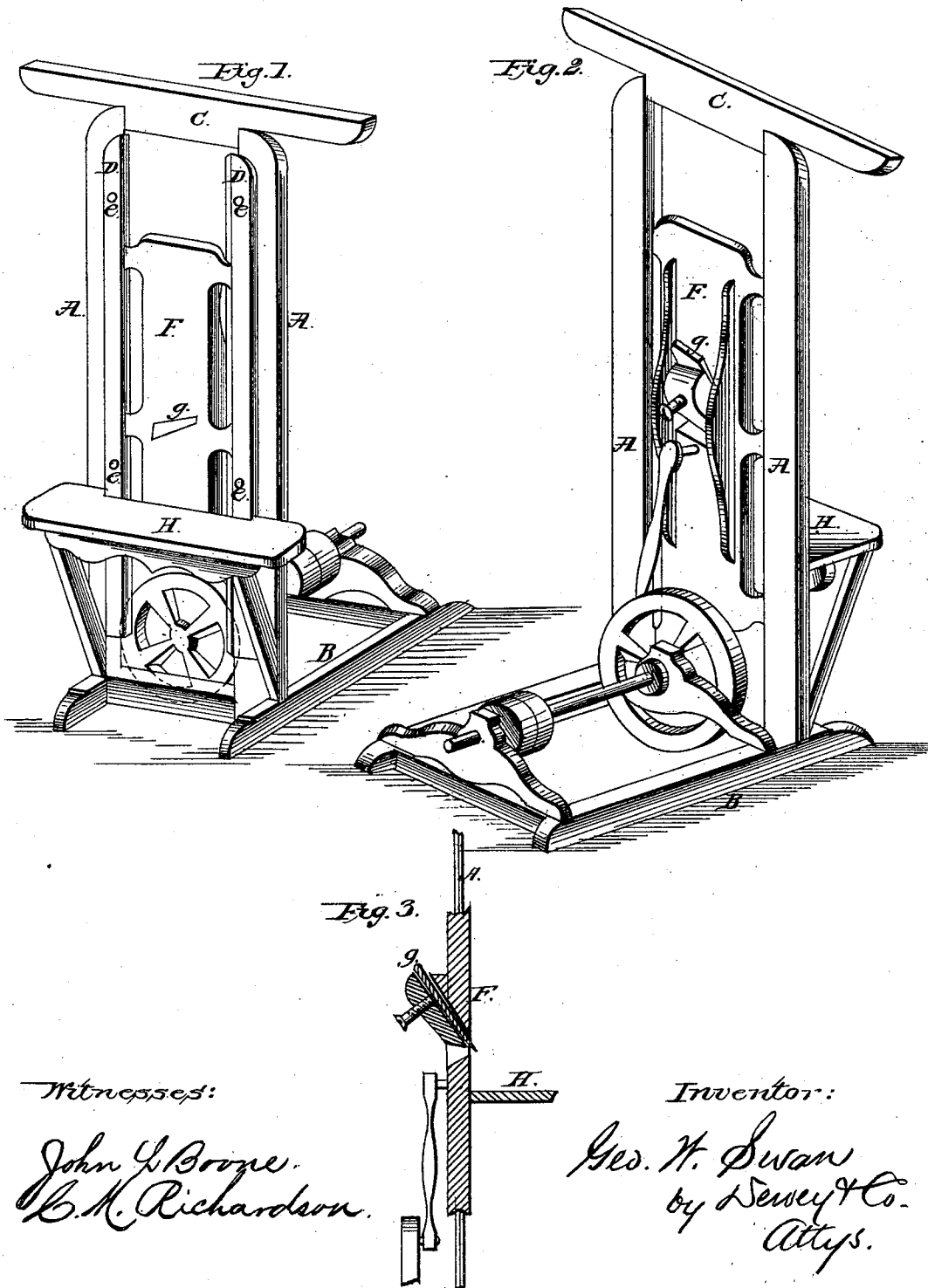


G. W. SWAN.
BOX-TRIMMING MACHINE.

No. 171,883.

Patented Jan. 4, 1876.



Witnesses:

John L. Bozpe.
C. H. Richardson.

Inventor:

Geo. W. Swan
by Sewer & Co.
Attys.

UNITED STATES PATENT OFFICE.

GEORGE W. SWAN, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN BOX-TRIMMING MACHINES.

Specification forming part of Letters Patent No. 171,883, dated January 4, 1876; application filed November 28, 1874.

To all whom it may concern:

Be it known that I, GEORGE W. SWAN, of San Francisco city and county, State of California, have invented an Improvement in Box-Trimming Machines; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention, without further invention or experiment.

My invention relates to a machine for trimming wooden boxes after they are nailed together; and it consists of a plane mounted between vertical guides, so as to be reciprocated up and down by a crank-shaft and pitman in the rear of a table upon which the box is placed.

In order to describe my invention, so that others will understand its construction and operation, reference is had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front perspective view of my machine. Fig. 2 is a sectional elevation, showing the cutter. Fig. 3 is a back perspective view.

A A are two upright guide-posts, which are secured to a frame foundation, B, and the upper ends of which are connected by a beam, C, the ends of which extend outward upon each side, so that they can be secured to the ceiling of the room in which the machine is operated, and thus hold the guide-timbers rigidly in place. Upon the front side of each of the guide-posts A a metal plate, D, is secured vertically the entire length of the post, so that their inner edges will project inside of the post. These edges are properly beveled to form ways for the plane-frame to move in. These plates are secured to the posts by means of screws *e*, which pass through transverse

slots in the plates, so that by loosening the screws the plates can be adjusted to or from each other for the purpose of properly fitting the ways in the grooves of the plane-frame. F is the plane-frame, which is mounted between the ways D D in the usual way of mounting a sliding frame. In this frame I secure a plane-bit, *g*, so that its cutting-edge will project through to the front side and stand at an angle to the movement of the frame, so as to give a drawing cut. A table or platform, H, is constructed in front of the vertically-reciprocating plane, so that the box to be trimmed can be placed upon it and properly held while being trimmed.

After wooden boxes have been nailed together the sawed ends of the boards which form their sides are rough, and generally project somewhat beyond the ends. Heretofore it has been usual to plane these ends off by hand, but by the use of the above-described machine the box can be placed upon the table H and the rough and projecting ends presented to the reciprocating plane, and so as to be easily and perfectly trimmed.

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

A box-trimming machine, consisting of the vertically-reciprocating plane-frame F, with its angularly-placed plane-bit *g*, operated between the adjustable ways D, which are secured to upright guide-posts A, and the table or platform H, substantially as above described.

In witness whereof I hereunto set my hand and seal.

GEORGE W. SWAN. [L. S.]

Witnesses:

JNO. L. BOONE,
C. M. RICHARDSON.