F. SCELZA.

DOOR JAMB SETTER.

APPLICATION FILED APR. 15, 1911.

1,017,811.

Patented Feb. 20, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

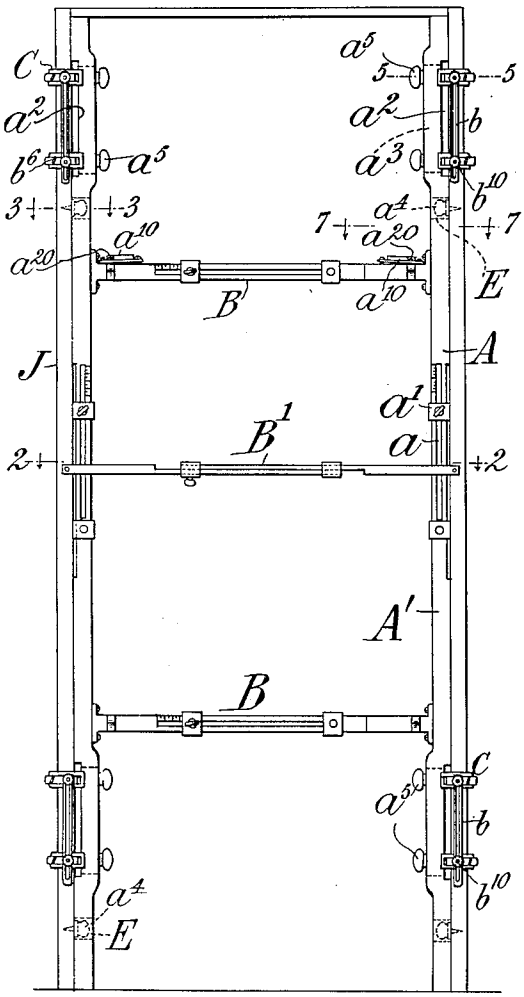


Fig. 2.

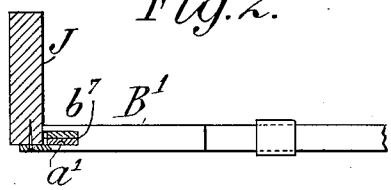


Fig. 3.

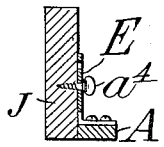


Fig. 4.

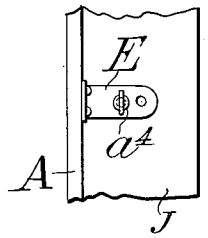


Fig. 7.

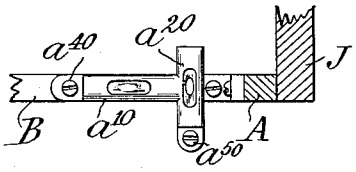


Fig. 8.

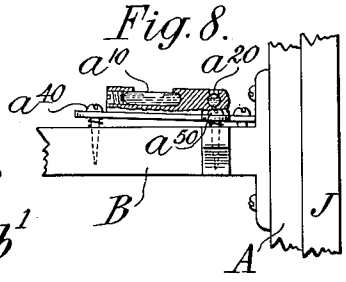
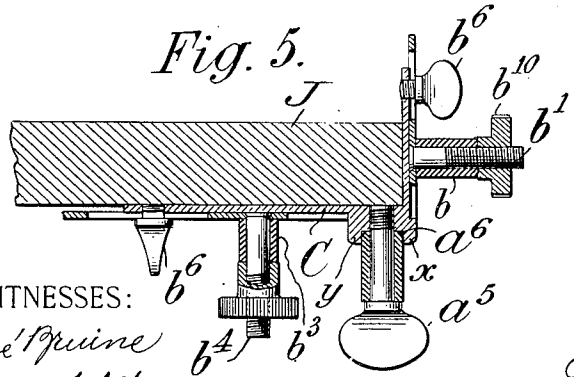


Fig. 5.



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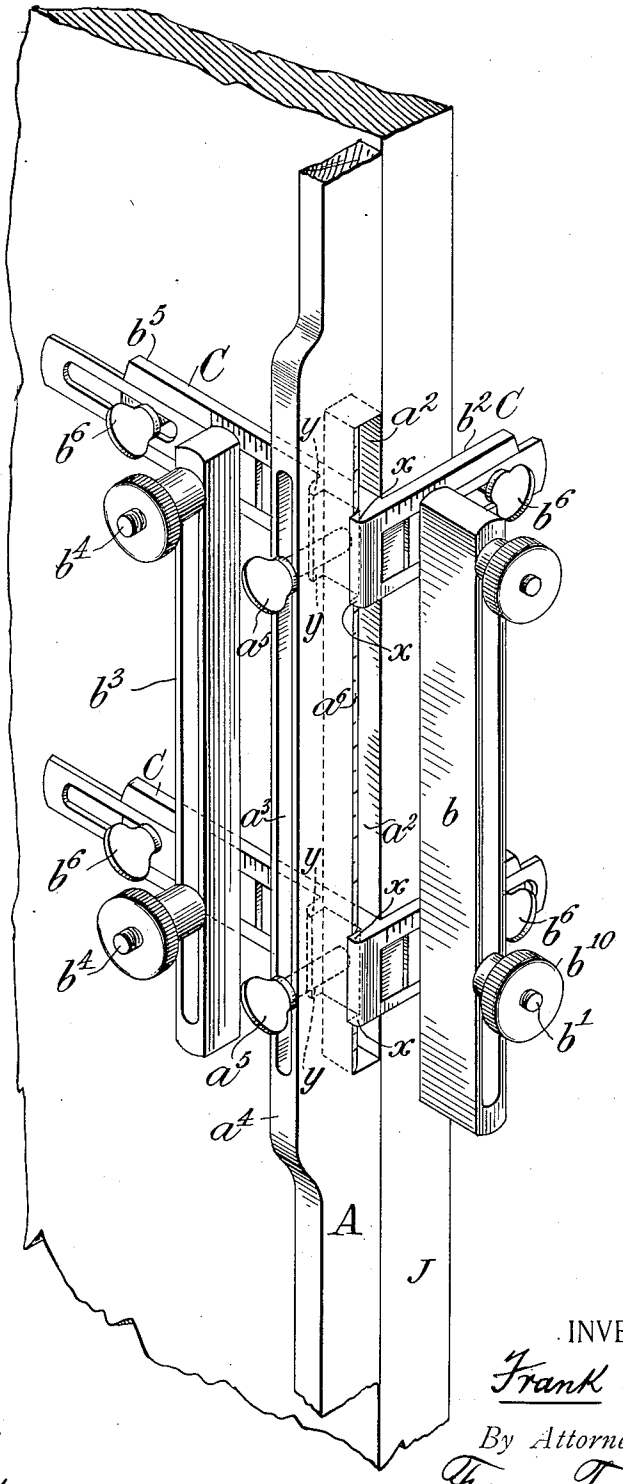
2 SHEETS—SHEET 2.

Fig. 6.



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DOOR-JAMB SETTER.

1,017,811. Specification of Letters Patent. Patented Feb. 20, 1912.

Application filed April 15, 1911. Serial No. 621,424.

To all whom it may concern:

Be it known that I, FRANK SCELZA, a subject of the King of Italy, residing in Harrison, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Door-Jamb Setters, of which the following is a specification.

My invention relates to devices for setting door-jambs.

It relates particularly to a device for enabling workmen to level up the door-jambs, to locate thereon the position of the hinge-mortises, and by means of guides to cut said mortises rapidly and accurately.

The subject matter of this application forms an improvement on my door-jamb setter, described and claimed in my U. S. application, Serial No. 587,091, of October 14, 1910.

To carry out my invention I construct a frame adapted to fit within the door jamb and extensible longitudinally and laterally. I provide, moreover, recesses in said frame, and adjustable guides located within said recesses for guiding the tools used in cutting the mortises.

In the drawings accompanying and forming part of this application Figure 1 is an elevation showing the frame adjusted in the door-jamb; Fig. 2 is a section on the line 2—2 of Fig. 1; Fig. 3 is a partial section on line 3—3 of Fig. 1; Fig. 4 is an elevation of the brace of which Fig. 3 is a section; Fig. 5 shows a section on the line 5—5 of Fig. 1, and Fig. 6 is a perspective view of one of the recesses in the frame with the adjustable tool guides in position on the face and edge of the door-jamb.

Referring to the drawings, A A′ are the parts of the setter extensible upon each other by means of the slot a and the set-nut a^1; B B are extensible stiffening braces connecting the two parallel sides of the setter frame; B′ is an auxiliary brace used when an extra heavy setter is to be reinforced; C are the calibrated tool guides comprising, preferably, two arms at right angles to each other each capable of longitudinal extension; E is an extra brace piece connecting the setter frame A and the door-jamb J. Near the top and bottom of the extensible frame bars A A′ on the outer edge where they come in contact with the sides of the door-jamb, there are located the recesses a^2, which are cut deep enough to receive the tool guides and long enough to enable the hinge mortises to be cut to the desired length of hinge. The inner edge of each of the recesses a^2 is preferably beveled to admit more light to the work, and is provided with a scale.

a^3 are slots cut from the inner edge a^4 of the setter frame through to the recesses a^2, said slots serving to transmit light to the recesses a^2, and as guides for the clamp screws a^5, enabling the tool guides C to be set when adjusted longitudinally within the recess a^2. Each tool guide has a pair of jaws x—y which receive the side bar and between which the clamp screw a^5 is screwed into the tool guide. The clamp screws engage holes in the tool guides C.

b are slotted tool guides, hung upon pins b^1 adjustably mounted in the shorter arm b^2 of the tool guides C.

b^3 is a slotted tool guide hung upon pins b^4 of the guide arm b^5.

b^6 are set screws for holding the tool guides b and b^3 against lateral movement when they have been adjusted.

b^{10} are set screws for holding the tool guides b and b^3 on their frames.

The extensible cross braces B B are attached to the inner edges of the setter frame, serving to reinforce the same, and are provided with levels a^{10} for leveling up the frame adjusted by screws a^{40}. Across the middle of the setter frame there is arranged also an adjustable auxiliary stiffening brace B′ provided with a notch b^7 in which the parts of frame A A′ slide longitudinally, said brace being removably attached to the door-jamb J. The angle brace piece E is attached to the side-bars A A′ and removably fastens the frame A A′ to the door-jamb or door, one screw a^4 or two being used, according as the door is of the ordinary thickness or extra thick. The slots a^3 in the frame A A′ serve the double purpose of receiving the set screws a^5, and allowing some light to enter the gage portion a^2.

a^6 is the beveled edge of the recess a^2 affording a rest for the chisel.

The operation is as follows: The tool guides C being introduced into the recesses as shown in Fig. 6, the frame is set and braced within the door-jamb, as seen in Fig. 1. These guides are then adjusted in the slots a^3 by means of the clamp-screws a^5 until there is embraced between the upper and lower tool-guides C a distance equal to the length of hinge mortise to be cut. The

set screws b^6 are then loosened, the tool guides b^3 placed over the pins b^4, and the arm extended until the distance of the inner edge of b^3 from the angle of the guide C is equal to the width of the hinge. The sides of b^3 and the inner edges of upper and lower guides C will then serve as straight edges for cutting the length and width of the mortise. The short arms b^2 are then extended until the distance of the edge of b from the angle of the guide equals the thickness of the mortise, when a chisel, using b as a straight edge, can be applied to remove the required thickness.

In addition to the levels a^{10} which have been referred to, my frame may also be provided with cross-levels a^{20} which are adjusted upon the frame by screw a^{50}.

In cutting the hinge mortise by means of my improved apparatus, I may employ an ordinary chisel. I prefer, however, for cutting the corners of said mortise to use a chisel which has its cutting edge rectangular in cross-section. Both the levels a^{10} and a^{20} are adjusted by their screws against springs placed between them and the frame.

Having thus fully described and illustrated my invention, what I claim, is:—

1. An extensible side bar for door-jamb setting machines, having a recess on its outer edge, said recess being provided with beveled edges adapted to form chisel guides, and a tool guide adjustable in said recess, said bar being provided with a guide slot extending from the recess to the inner edge of the bar adapted to permit vertical adjustment of the tool guide and admit light to the recess, and means for holding said tool guide in place.

2. A device for setting door-jambs comprising a pair of parallel, longitudinally extensible side bars, adjustable cross braces connecting said bars, in combination with a removable adjustable reinforcing cross brace slotted at the ends to receive the side bars, and provided also with means for detachably fastening the side bars to the door-jamb.

3. A device for setting door-jambs comprising a pair of parallel, longitudinally extensible side bars, adjustable cross braces connecting said bars, in combination with a removable adjustable reinforcing cross brace, connecting the side bars and provided with means for rigidly connecting the side bars to the door-jamb.

4. An adjustable side bar for door jamb setters having a recess cut in its outer edge, said recess being provided with a scale in combination with a calibrated tool guide adjustable within the recess.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

his
FRANK × SCELZA.
mark

Witnesses:
C. W. TATE,
JOSEPH RISOLI.