

S. FERRIS.
Cornice-Tools.

No. 155,864.

Patented Oct. 13, 1874.

Fig 4.

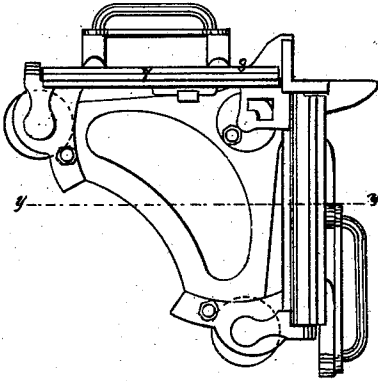


Fig 1.

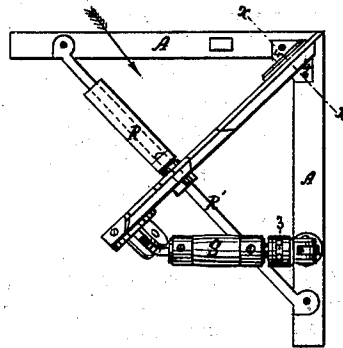


Fig 5.

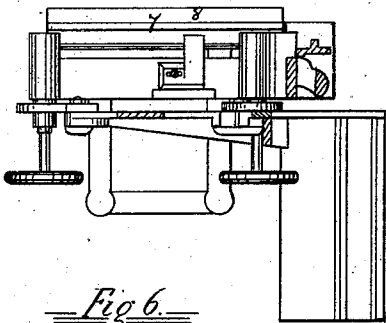


Fig 2.

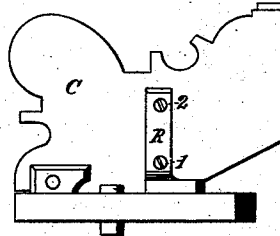


Fig 6.

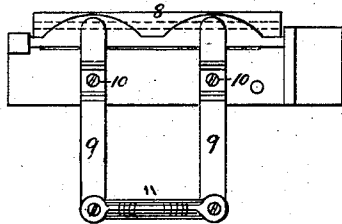
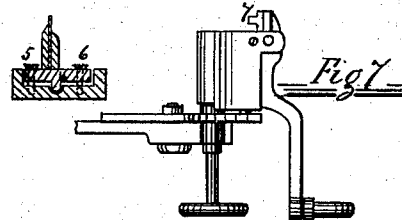


Fig 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

SMITH FERRIS, OF NEW YORK, N. Y.

IMPROVEMENT IN CORNICE-TOOLS.

Specification forming part of Letters Patent No. **155,864**, dated October 13, 1874; application filed September 21, 1874.

To all whom it may concern:

Be it known that I, SMITH FERRIS, of the city of New York, county and State of New York, have invented Improvement in Devices for Molding Plaster Cornices, of which the following is a specification, reference being had to the accompanying drawings forming part thereof.

Figure 1 is a top view of my improved mold. Fig. 2 is a detail side view of the same, looking in the direction of the arrows in Fig. 1. Fig. 3 is a vertical section of the point of the mold cut through on the line *x x*, Fig. 1. Fig. 4 is a top view of the guide-slide and its supporting-bracket. Fig. 5 is a side view of the same, a part being broken away to show the construction. Fig. 6 is an outside-face view or elevation of one of the slides and bracket; and Fig. 7 is an end view of the said slide of the guide and bracket, extending back as far as the line *y y*, Fig. 4.

Letters Patent of the United States No. 107,241 were issued to me September 13, A. D. 1870, for improvements in devices for molding plaster cornices. My present invention is an improvement upon the devices therein described and shown. The general construction and operation of the machine embodying the improvements claimed in the said letters being therein fully described, I do not deem it necessary to repeat that description here, hereby referring to the same.

In the practical operation of the mold and guide constructed in accordance with the schedule and drawings forming part of said Letters Patent, I have experienced some difficulty resulting from imperfections existing at two points: First, the absence of means to adjust the molding-plate C vertically or at right angles to the plane of the slipper A or side bars, and prevent the same from being twisted out of a true plane; second, the peculiar construction and relation to each other of the two ways, (or slides, as they are called in my former patent above referred to,) which are arranged at right angles to each other, and when one of the bars of the slipper is being moved along either of them it necessarily rubs across

the other, which lies at right angles to the line of motion, by which it is made to tremble and move unevenly.

These imperfections are remedied by my present invention.

The vertical adjustment of the mold C is secured by the following devices: R is a brace or stud fixed on the cross-bar R'. To this the mold C is secured by screw-bolts 1 2, which pass through the mold into screw-threaded holes in the brace, with nuts between the stud and the mold. The mold is held between the heads of the bolts and the said nuts, and by running the bolts in or out of the stud the mold may be vertically adjusted at the center. At the outer ends the mold is adjusted by means of the extension-brace S, which also serves as a handle by which to operate the mold. This brace is made in two parts and provided with a center screw, the shaft of which works in a nut in one part, the head being held so as to revolve in the other. Through the slot 3 the said head may be reached and revolved. The opposite end of the mold is secured to a stud or brace that is attached to a rocker, 4. The screws 5 6 attach this rocker to the slipper by turning down one of these screws and turning back the other.

It is evident the vertical adjustment of the mold at the inner end may be effected, and by the three devices described the mold throughout its entire extent may be adjusted and its warping or twisting prevented.

The ways indicated by the Fig. 7, upon which the slipper runs in forming an angle in the cornice, in place of being stationary, as described in my former Letters Patent referred to, are fixed upon the face of swinging leaves 8 8', that are pivoted at their ends in the frame of the guide, so that they will swing outward on their lower edges, and each is held in an upright position by a pair of latch-levers, 9, pivoted in the frame at 10, the lower ends connected by a cross-piece, 11. By grasping this cross-piece and swinging the catch-levers on their pivots the leaves may at pleasure be swung outward and folded down out of the way of the slipper.

By this device of the pivoted leaves 8 having the ways 7 attached to them, whereby while the mold is being pushed along one of the ways the other way is removed out of its track, the difficulty experienced in the operation of the guide described in my former patent above described is wholly obviated.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with the mold C, of the extension-brace S, the support R with its ad-

justing-screws, and the adjustable rocker 4, as and for the purpose specified.

2. The combination, in the mold-guide and bracket, of the pivoted leaves 8, to which are attached the ways 7 with the catch-levers 9, as and for the purpose specified.

SMITH FERRIS.

Witnesses:

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