I. KARPEN.

UPHOLSTERING MACHINE.

APPLICATION FILED AUG. 24, 1907.

931,313. Patented Aug. 17, 1909.

Fig. 2.

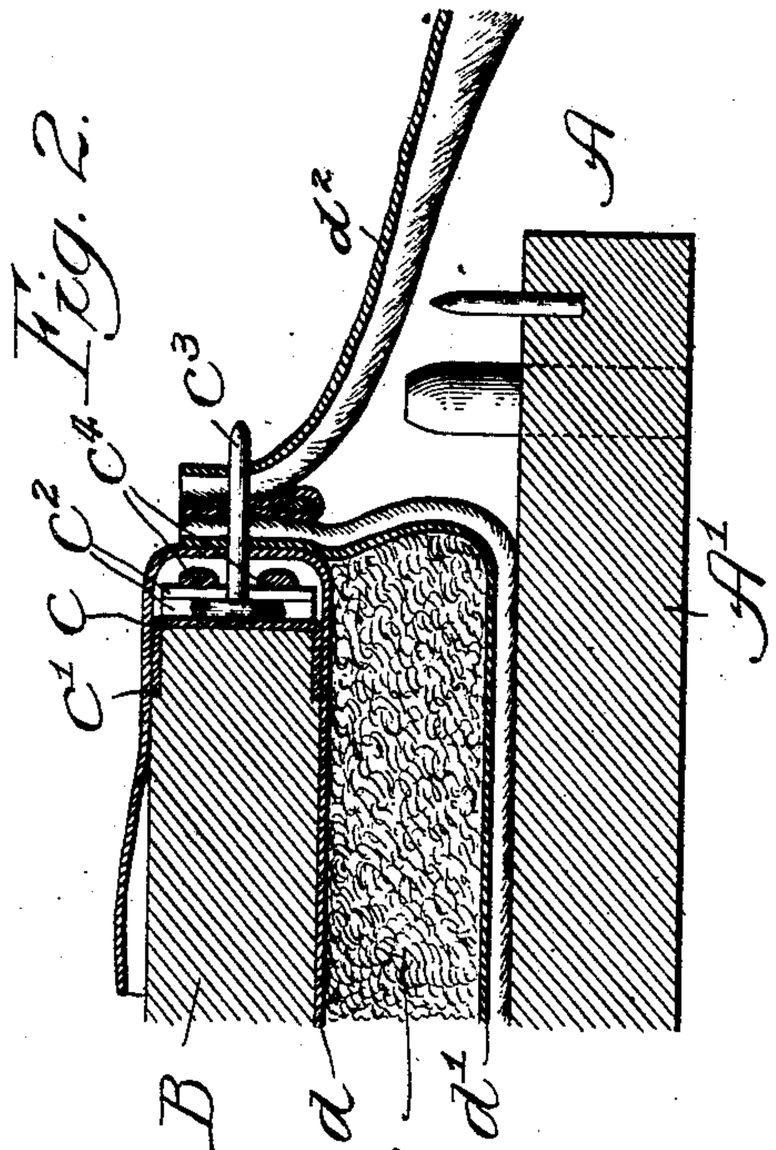


Fig. 3.

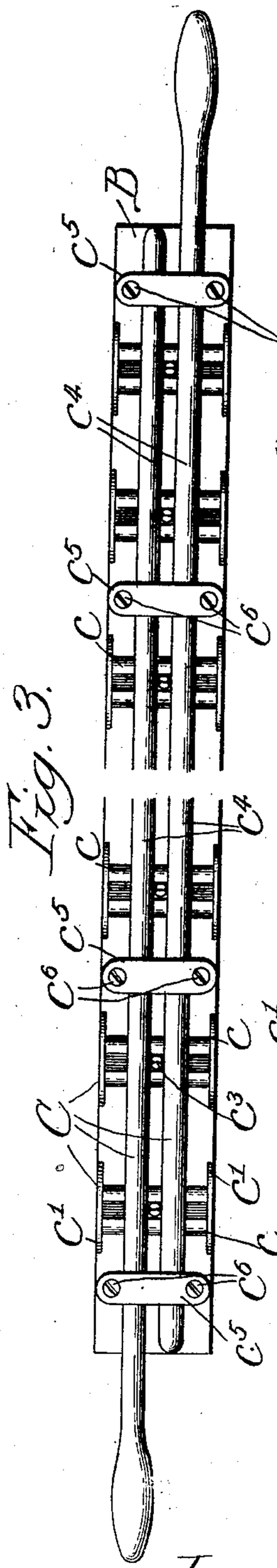


Fig. 5.

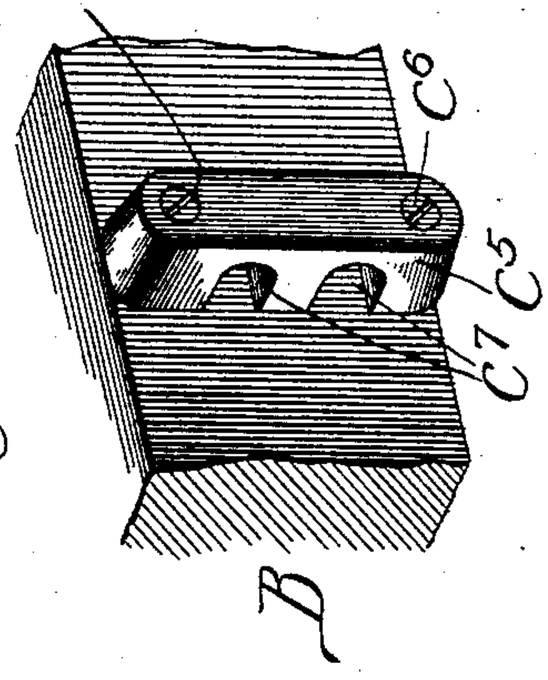


Fig. 1.

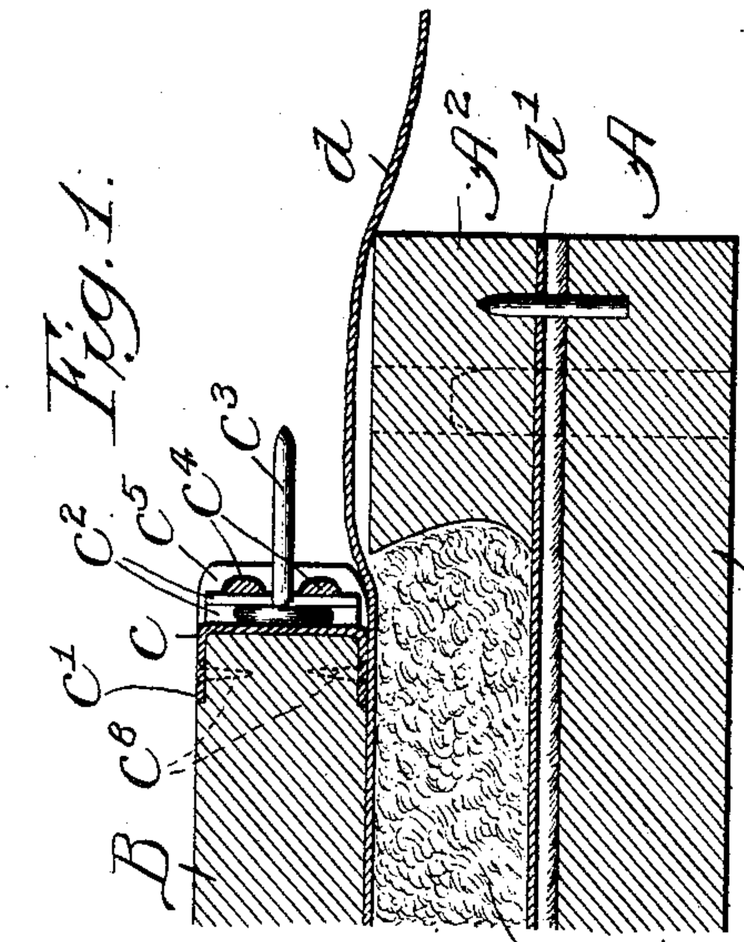
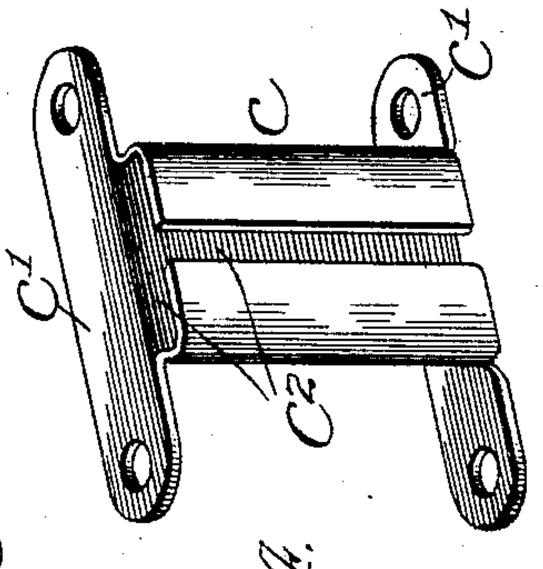


Fig. 4.



Witnesses:

Chas. E. Gaylord.

John Enders.

Inventor:

Isaac Karpen,

By Dyrenforth, Lee, Chritton & Wiles,

Attys.

UNITED STATES PATENT OFFICE.

ISAAC KARPEN, OF CHICAGO, ILLINOIS, ASSIGNOR TO S. KARPEN & BROS., OF CHICAGO, ILLINOIS, A CORPORATION OF WEST VIRGINIA.

UPHOLSTERING-MACHINE.

No. 931,313. Specification of Letters Patent. Patented Aug. 17, 1909.

Application filed August 24, 1907. Serial No. 390,025.

To all whom it may concern:

Be it known that I, ISAAC KARPEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Upholstering-Machines, of which the following is a specification.

My invention constitutes an improvement on the upholstering machine described and claimed in my application No. 390,024, filed of even date herewith.

My primary object is to provide improved fastener-holding means for use in connection with a machine of the character indicated.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 represents a broken sectional view of a mold of a tufting machine having its presser-board, or follower, equipped with my improved fastener-holding means; Fig. 2, a similar view showing an edge-rail of the mold removed and the covering of the mattress, or pad, turned up for connection with the fasteners; Fig. 3, a broken edge view of the follower with the improved fastener-holding means applied thereto and fasteners held thereby; Fig. 4, a perspective view of one of the fastener-guides employed; and Fig. 5, a broken perspective view of the follower and one of the retainer-bar guides employed.

In the drawing, A represents the mold of a tufting-machine, having a bottom A^1 and a removable edge-rail A^2; B, the follower of the mold; and C, my improved fastener-holding means applied to the edge of the follower.

The fastener-holding means C comprises vertically disposed fastener-guides c having attaching flanges c^1 at their upper and lower ends and provided with T-slots c^2 for receiving the fasteners c^3; retainer-rods c^4 adapted to cross the open channels of the T-slots and spaced to receive between them the shanks of the fasteners; and retainer-rod-guides c^5 applied to the edge of the follower-board, as by screws c^6, said guides c^5 being provided with horizontal channels c^7 disposed to space the rods so as to accommodate the shanks of the fasteners. The upper and lower margins of the follower-board B are recessed to receive the flanges c^1 of the members c and said members are secured to the board by screws c^8.

As described in the above-mentioned application, the heads of the fasteners are received in the guides c, the points projecting outwardly. One retainer-rod is withdrawn to permit the fasteners to be dropped into their guides, after which said rod is inserted to secure the fasteners in place. D represents a mattress, or pad, (inverted during tufting) having an inner fabric (usually canvas) d, an outer covering (usually leather or imitation leather) d^1, and a fringe or flap d^2. As is known, the margins of these fabrics are preparatorily perforated to receive the fasteners. After the fasteners are entered and clenched, the lower retainer rod is withdrawn and the follower is lifted from the pad.

In practice, the members c are formed from sheet-metal, and the members c^5 are cast. It is observed that the members c^5 and their channels are deep enough to permit the rods c^4 to lie outside or across the members c.

What I regard as new, and desire to secure by Letters Patent, is—

1. In means of the character set forth, the combination with a follower, of sheet-metal members formed with T-slots therein and equipped with means for attachment to an edge of the follower, retainer-rods crossing said slots, and guides for said retainer-rods applied to an edge of said follower.

2. A fastener-guide clip for the purpose set forth, comprising a member adapted to extend cross-wise of the edge of a follower-board and formed with a T-slot therein and with attaching flanges at its ends.

ISAAC KARPEN.

In presence of—
RALPH SCHAEFER,
W. T. JONES.