

July 10, 1923.

1,461,525

H. A. HALL

SLIDING MOLDBOARD FOR CABINETS

Filed Aug. 14, 1922

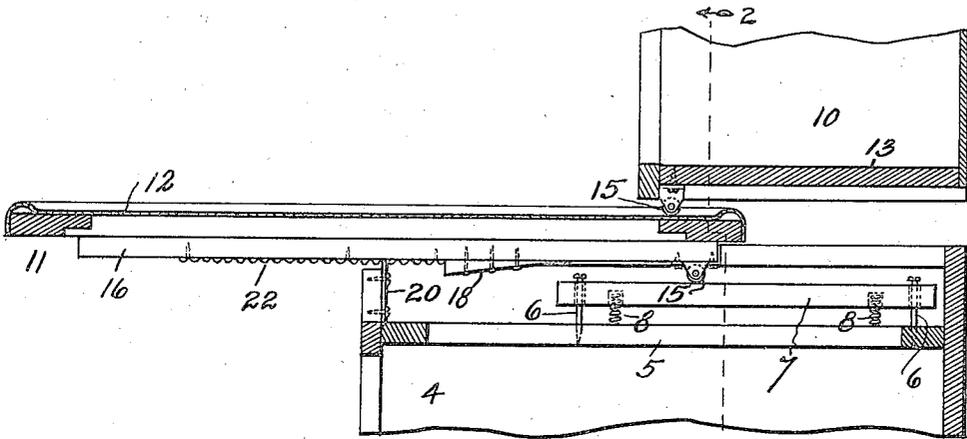


Fig. 1.

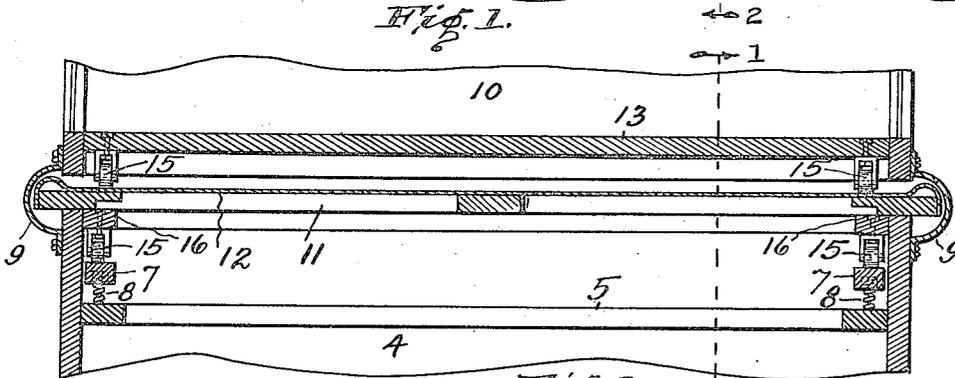


Fig. 2.

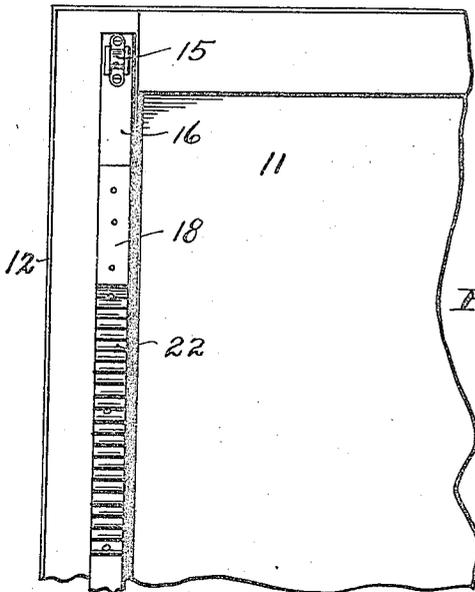


Fig. 3.

Inventor,
Harry A. Hall,
By Joseph A. Minton
Attorney.

UNITED STATES PATENT OFFICE.

HARRY A. HALL, OF NEWCASTLE, INDIANA, ASSIGNOR TO HOOSIER MANUFACTURING COMPANY, OF NEWCASTLE, INDIANA, A CORPORATION OF INDIANA.

SLIDING MOLDBOARD FOR CABINETS.

Application filed August 14, 1922. Serial No. 581,621.

To all whom it may concern:

Be it known that I, HARRY A. HALL, a citizen of the United States, residing at Newcastle, in the county of Henry and State of Indiana, have invented new and useful Improvements in Sliding Moldboards for Cabinets, of which the following is a specification.

Slidable mold-boards for kitchen cabinets have been made as shown in my Patent No. 1,408,938, issued February 1st, 1922, wherein a positive lock was provided to hold the mold-board from sliding when drawn out a maximum distance, but not holding it a distance less than the maximum; and an object of this invention is to provide means for locking the mold-board at practically any position thereof within the range of its sliding movement. Another object is to mount the inner edge of the mold-board between roller-bearings to keep it from binding when slidingly moved; and a further object is to provide resilient means for taking up lost motion of the mold-board in all of its positions, to hold it steady and free from rattling, all without interfering with its freedom of adjustment.

I accomplish the above, and other objects which will hereinafter appear, by the mechanism illustrated in the accompanying drawing, in which—

Fig. 1, is a vertical section of the mold-board and its associated co-operative parts, showing my invention, the section being on the line 1—1 of Fig. 2. Fig. 2 is a vertical section of same on the line 2—2 of Fig. 1, and Fig. 3 is a fragment in underside plan view of the mold-board.

Like characters of reference indicate like parts in the several views of the drawing.

In the drawing, 4 indicates the main body or cabinet base which, at its upper portion, is provided with frame members 5, in which pins 6 are seated in vertical pairs, forming guides for corresponding track-bars 7. These are each supported on a plurality of springs 8, which enter sockets in the under sides of the track-bars and bear upon the members 5.

Supported at a suitable distance above the cabinet base 4, by end-plates 9, 9, is a cabinet superstructure 10, of any usual or suitable construction. A mold-board 11, appropriately formed of a wooden-frame and core and incasing metal cover 12, is slidingly assembled between the base 4 and superstruc-

ture 10. The bottom 13 of the superstructure has depending roller housings secured to the underside near each end of the cabinet, with a roller 15 mounted in each housing, preferably of lignum vitæ, or similar strong material that will not mar the metal top by rolling over it.

Secured to the underside of the mold-board near each of its ends is a bar 16, and secured to the underside of each bar near the inner ends thereof is a metal housing in which a roller 15 is mounted. The roller bears against and rolls upon the adjacent track-bar 7.

Nailed to the underside of the bar 16 is wedge-block 18, turned with its broad end to the front to contact the front wall of the base and limit the outward movement of the mold-board under ordinary conditions of use, but it does not prevent the clearance of the wedge by further lifting of the front of a mold-board.

To lock the mold-board at a large number of positions so a person using it may lean against it without its sliding, I fasten a vertical plate 20 in a fixed manner to the inside front of the base 4, and provide a longitudinal series of indents on the adjacent bar 16, in respective ones of which the end of the plate 20 enters, depending upon the position of the mold-board. These indents may be conveniently formed in practice by nailing a strip 22 of corrugated metal longitudinally of the bar 16, in the manner shown in Figs. 1 and 3.

The operation of my invention is as follows: When the mold-board is in the position shown, or between that and full closed position, and until the lower rollers pass to the front of the upper ones, the springs 8, acting through the track-bar 7, press the back portion of the mold-board up, and the upper rollers, acting as fulcrums, force the front portion of the mold-board down into locking engagement of the corrugated strips 22 with the plates 20, and the spring-pressed track-bars cause the mold-board to be always closely held between the upper and the lower rollers, thereby preventing all looseness and the rattling of the board in use.

When it is desired to move the mold-board either in or out, it is freed from the plates 20 by lifting up on the front of the board. The board swings against the top

rollers as fulcrums, causing the lower rollers by rolling contact to push the track-bars down far enough to permit the adjustment but never far enough to be free from the resilient action of the track-bar in the preventing of lost motion of the board.

Having thus fully described my invention, what I claim as new and wish to secure by Letters Patent of the United States, is—

10 1. In a kitchen cabinet, a base, a super-structure, a mold-board on the base slidable in and out under the superstructure, means for holding the mold-board against sliding adjustment either in or out when at any position in its normal range of movement, the means for holding the mold-board against such sliding adjustment consisting of parts fixed to the mold-board and to the cabinet respectively without motion of that part relative to the mold-board or to the cabinet member to which the part is fixed, track bars, resilient means for normally moving the track-bars toward the mold-board, and bearings between the mold-board and the superstructure and between the mold-board and the track-bars.

20 2. In a kitchen cabinet, a base, a super-structure, a mold-board on the base slidable in and out under the superstructure, means comprising a movable part movable with the mold-board but immovable relative to the mold-board, for holding the mold-board against sliding adjustment either in or out when at any position in its normal range of movement, the position being variable at will by appropriately moving the mold-board and said parts fixed thereto, track bars, resilient means for normally moving the track-bars toward the mold-board, and bearings between the mold-board and the superstructure and between the mold-board and the track-bars.

30 3. In a kitchen cabinet, a base, a super-structure, a mold-board on the base slidable in and out under the superstructure, mov-

able track-bars of rigid material supporting the inner edge of the mold-board, resilient means supporting the track-bars and slidably forcing them toward the mold-board to take up the looseness of the latter and to prevent the rattle of parts and devices to concentrate the load of the board at bearing points on the track-bars.

4. In a kitchen cabinet, a base, a super-structure, a mold-board on the base slidable in and out under the superstructure, movable track-bars of rigid material supporting the inner edge of the mold-board, springs forcing the track-bars toward the mold-board, and anti-friction devices above and below the mold-board to ease its sliding movement under the pressure of the springs and to concentrate the load of the board at bearing points on the track-bars.

5. In a kitchen cabinet, a base, a super-structure, a mold-board on the base slidable in and out under the superstructure, roller-bearings between the superstructure and mold-board fixed to the superstructure, roller-bearings under the mold-board fixed to the mold-board, movable track-bars under the mold-board for the last rollers to roll upon and springs to press the track-bars toward the mold-board.

6. In a kitchen cabinet, a base, a super-structure, a mold-board on the base slidable in and out under the superstructure, roller-bearings between the superstructure and mold-board fixed to the superstructure, roller-bearings under the mold-board fixed to the mold-board, movable track-bars under the mold-board for the last rollers to roll upon, springs to press the track-bars toward the mold-board, and means for holding the mold-board against sliding adjustment at any position of its range in use.

Signed at Newcastle, Indiana, this the 4th day of August, 1922.

HARRY A. HALL.