No. 732,721. PATENTED JULY 7, 1903.

J. L. DUNNING.

DRAWER.

APPLICATION FILED APR. 21, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

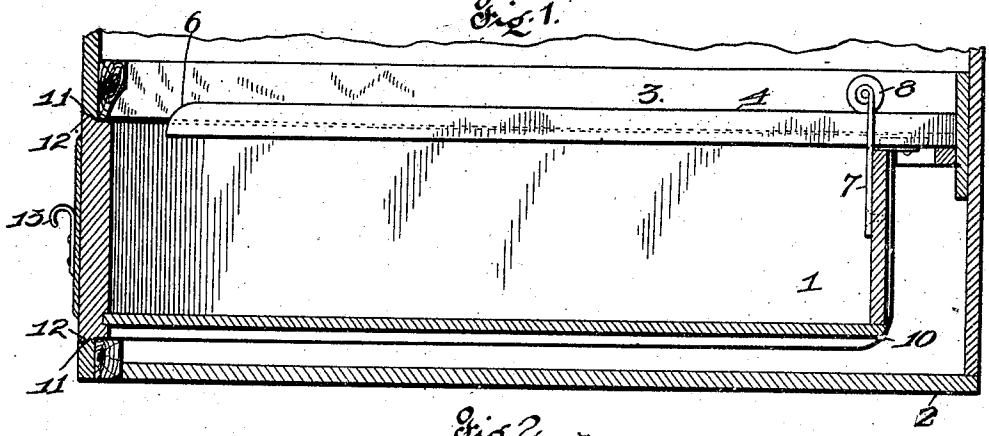


Fig. 2

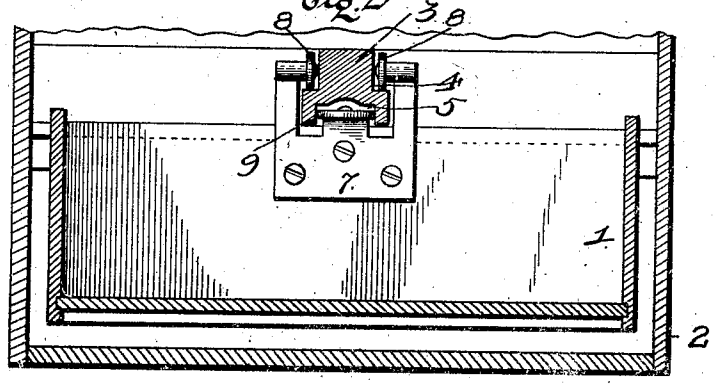


Fig. 3

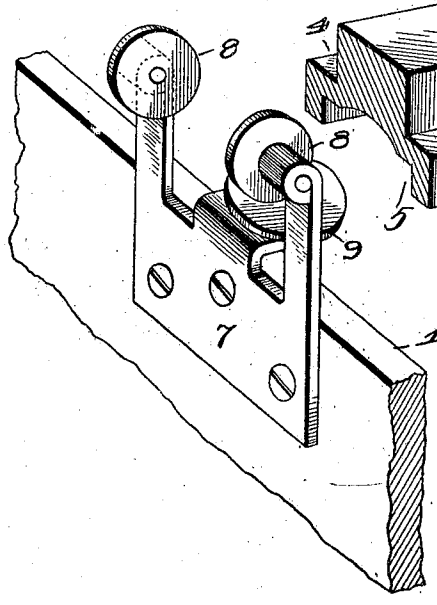
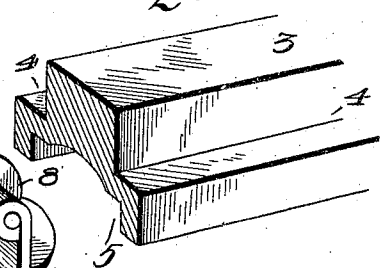


Fig. 4.



Witnesses
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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 5

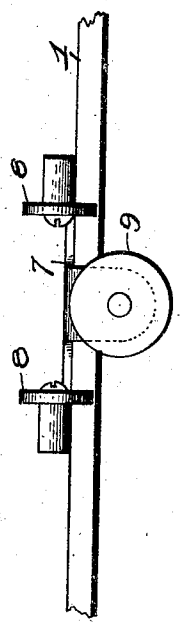
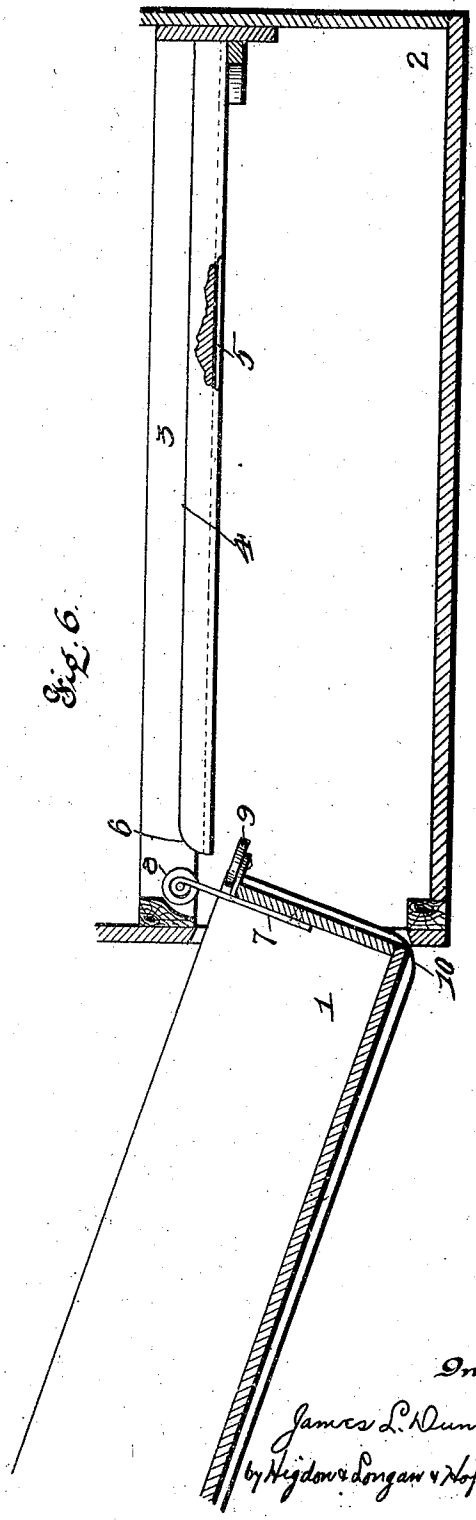


Fig. 6.



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No. 732,721. Patented July 7, 1903.

UNITED STATES PATENT OFFICE.

JAMES L. DUNNING, OF CLAYTON, MISSOURI, ASSIGNOR OF ONE-HALF TO RICHARD H. STEVENS, OF WEBSTER GROVES, MISSOURI.

DRAWER.

SPECIFICATION forming part of Letters Patent No. 732,721, dated July 7, 1903.

Application filed April 21, 1903. Serial No. 153,716. (No model.)

To all whom it may concern:

Be it known that I, JAMES L. DUNNING, a citizen of the United States, residing at Clayton, St. Louis county, State of Missouri, have invented certain new and useful Improvements in Drawers, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in drawers, and has for its object to provide means whereby the drawers may be prevented from binding.

In the drawings which form a part of this specification, Figure 1 is a longitudinal sectional view of a device embodying my invention. Fig. 2 is a transverse sectional view showing the inner side of the rear end of a drawer to which my invention is applied. Fig. 3 is an enlarged perspective view of the end of such drawer. Fig. 4 is a perspective view of the attachment with which I provide the drawer-casing. Fig. 5 is a top view of the attachment for the drawer which is shown in perspective in Fig. 3. Fig. 6 is a longitudinal sectional view of the drawer and casing, showing how the drawer may be removed from the casing.

In the drawings the drawer is indicated by the numeral 1 and the casing by the numeral 2.

In the casing and above the drawer and at right angles to the back of the drawer I have provided the guide-bar 3, having upon its upper side the grooves 4 4 and upon its lower face the channel 5. At its end nearest the front of the casing the guide-bar 3 is curved downwardly at the point indicated by the numeral 6.

Upon the inner face of the back of the drawer the plate or bracket 7 is mounted, which plate 7 carries the vertical rollers 8 and horizontal roller 9, the rollers 8 being adapted to engage in the grooves 4 and the roller 9 being adapted to engage with the channel 5, as shown in section in Fig. 2.

The back of the drawer is cut away at the point indicated by the numeral 10, so as to permit of the drawer, with its attachments, being readily inserted or withdrawn from the casing 2 in the manner indicated by the relative position of the drawer and casing in Fig. 6.

The weight of the load carried by the drawer is thus carried by the rollers 8, while the roller 9 prevents lateral movement of the drawer.

The front of the casing 2 is provided with the beveled edges indicated by the numeral 11, and the front of the drawer 1 is beveled at the point indicated by the numeral 12 to fit accurately into the casing.

The drawer is provided upon its front side with the handle 13 of any desired form.

By these means I have provided a drawer whose operation is practically free from binding and in which the friction is reduced to a minimum.

Having thus described my invention, what I claim as new, and desire to have secured to me by the grant of Letters Patent, is—

1. A device of the class named, consisting of a drawer provided at its back with a bracket, a horizontal roller and two vertical rollers carried by the bracket, a casing adapted to receive the drawer, a guide mounted within the casing provided with grooves with which the vertical rollers are adapted to engage and with a channel with which the horizontal roller is adapted to engage, substantially as described.

2. A device of the class named, consisting of a drawer provided at its back with a bracket, a horizontal roller and two vertical rollers carried by the bracket, a casing adapted to receive the drawer, a guide mounted within the casing provided with grooves with which the vertical rollers are adapted to engage, and with a channel with which the horizontal roller is adapted to engage, the opening of the casing and the front of the drawer being beveled to engage accurately with each other when the drawer is closed, substantially as described.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

JAMES L. DUNNING.

Witnesses:
ALFRED A. EICKS,
M. G. IRION.