

J. G. WRIGHT.
DRAWER SLIDE.
APPLICATION FILED DEC. 17, 1920.

1,396,084.

Patented Nov. 8, 1921.

FIG. 1.

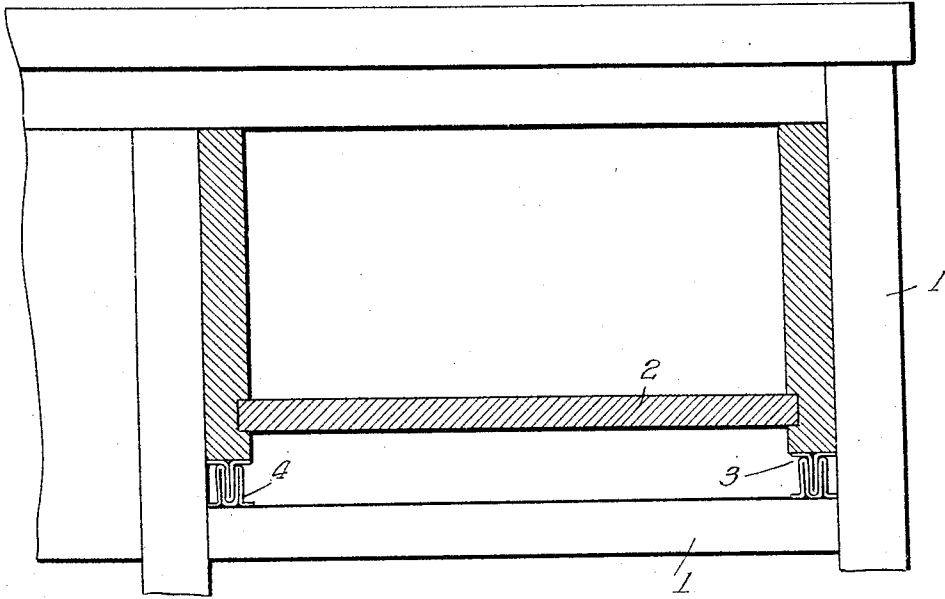


FIG. 2.

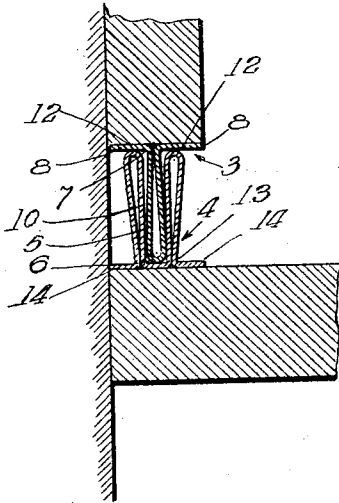


FIG. 3.

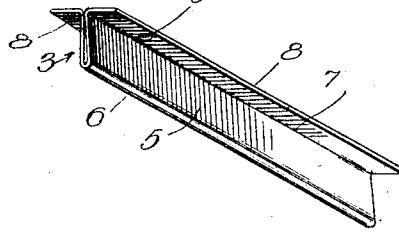
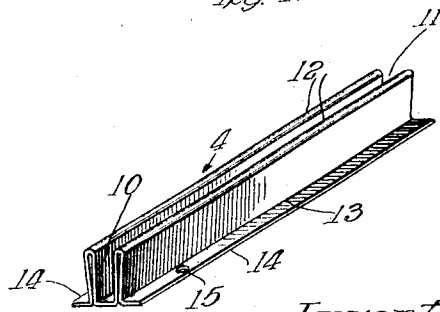


FIG. 4.



Witnesses
Harry P. White
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By *Frederick Hill* Atty.

UNITED STATES PATENT OFFICE.

JOHN G. WRIGHT, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE D. W. BOSLEY CO., OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

DRAWER-SLIDE.

1,396,084.

Specification of Letters Patent.

Patented Nov. 8, 1921.

Application filed December 17, 1920. Serial No. 431,439.

To all whom it may concern:

Be it known that I, JOHN G. WRIGHT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Drawer-Slide, of which the following is a description.

My invention relates to improvements in drawer slides and has for an object to provide a simple, light and efficient drawer supporting slide whose cost to manufacture is reduced to a minimum.

My invention contemplates the construction of a drawer slide of sheet metal so that the frictional resistance of the sliding parts will be relatively small and wherein sticking and warping will be avoided.

Another object of my invention is to provide a slide which comprises cooperating members so formed that either one of them may be applied to the drawer and the other to the casing.

Another object of my invention embodies the use of a plurality of alined slides between the cooperating drawer and casing member, thus allowing the use of smaller individual slide members and greatly facilitating the reliability of operation.

With these and other objects and advantages, the construction herein shown and described will be obvious to those skilled in the art from the disclosures herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference numerals indicate like parts throughout the views;

Figure 1 is a sectional view, showing the slide as applied to a drawer;

Fig. 2 is an enlarged fragmentary section through the slide of Fig. 1;

Fig. 3 is a perspective of one of the slide members; and

Fig. 4 is a perspective of the other of the slide members.

Referring more particularly to the drawings, 1 indicates the side and bottom walls of a slidable casing or drawer opening, and 2 a drawer adapted to operate therein.

Between the drawer and casing are inter-

posed slides or guides, each composed of a pair of cooperating members 3 and 4, one of which, as 3, is a male member, and the other of which, as 4, is a female member. I have shown the male member as applied to the drawer and the female member applied to the casing, but it is to be understood that either of these members may be secured to the drawer, and the other secured to the casing, and they will operate under both arrangements.

The male member 3 comprises a metallic strip, preferably of sheet metal, which has an upstanding rib or tongue 5 disposed longitudinally thereof, said rib being formed by bending the metal upon itself along the line 6, said fold being preferably not a sharp one, so that there will be little danger of the metal splitting along the line of the fold.

The base of the rib 5 is bent outwardly in opposite directions along the line 7, transversely to the rib 5 to form arms or wings 8, said arms having apertures 9 therein, adapted to receive suitable securing means therethrough, for attachment to the drawer or casing.

The female slide member 4 comprises a strip, preferably of sheet metal, which has a pair of laterally spaced upstanding ribs 10 thereon, said ribs forming a groove 11 therebetween, the space between said ribs being substantially equal to the thickness of the rib 5 of the member 3 so that there will be no transverse play or lost motion between the groove 11 and the tongue 5 when the cooperating parts are in assembling relation.

The ribs 10 are formed by folding the metal longitudinally of the strip along two parallel spaced lines 12. The bases of the ribs are bent outwardly in opposite directions along the lines 13 transversely of the ribs 10 to form arms or wings 14, said arms having apertures 15 therein, adapted to receive suitable securing means therethrough for attachment to the drawer or casing.

One of the slide members is attached to the drawer and the other to the casing, so that the rib of the male member lies in a plane intermediate the groove 11 of the female member and is adapted to slide there- in without any transverse play.

Either of the slide members may be secured to the drawer and the other to the slide, as illustrated in Fig. 1, wherein is shown a plurality of sets of slide members, one on each side of the drawer, the male members 3 being secured to the drawer, and the female members 4 being secured to the casing, so as to cooperate with one another.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, arrangement, construction and combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

1. The combination with a casing and a drawer, of a slide comprising a pair of metallic members, one of said members having a tongue longitudinally thereof, the other of said members having a pair of spaced upstanding ribs longitudinally thereof forming a groove uniform in cross section throughout its length between said ribs, one of said members being adapted to be secured to said casing, and the other of said members being adapted to be secured to said drawer, the tongue of said first mentioned member being adapted to enter said groove of said second member so that it engages the opposed faces of the ribs and to slide therein.

2. The combination with a casing and a drawer, of a slide comprising a pair of metallic members, one of said members being folded longitudinally upon itself to form an upstanding rib, the foot of said rib being outwardly extended in opposite directions transversely to said rib, the other of said members being folded longitudinally of itself along two parallel lines to form a pair of spaced upstanding ribs having a groove uniform in cross section throughout its length therebetween, the base of said ribs being outwardly extended in opposite directions transversely of said ribs, one of said slide members being adapted to be secured to said drawer, and the other of said slide members being adapted to be secured to said casing, whereby the rib of the first mentioned slide member will enter and lie in said groove between the spaced ribs of said second mentioned slide member and be guided and supported therein.

3. The combination with a casing and a drawer, of a slide comprising a pair of metallic members, one of said members being folded longitudinally upon itself to form an upstanding rib of uniform cross section throughout its length, the foot of said rib being outwardly extended in opposite directions transversely of said rib, the other of said members being folded longitudinally

of itself along two parallel lines to form a pair of spaced upstanding ribs having a groove therebetween of a uniform cross section throughout its length, the base of said ribs being outwardly extended in opposite directions transversely of said ribs, the height of said ribs being substantially equal to the height of the rib of said first mentioned slide member, one of said slide members being adapted to be secured to said drawer and the other of said slide members being adapted to be secured to said casing, whereby the rib of said first mentioned slide member will lie in said groove between and bear on the spaced ribs of said second mentioned slide member and be guided and supported therein.

4. The combination with a casing and a drawer, of a slide comprising a pair of metallic members, one of said members being folded longitudinally upon itself to form an upstanding rib of uniform cross section throughout its length, the foot of said rib being outwardly extended in opposite directions transversely of said rib, the other of said members being folded longitudinally of itself along two parallel lines to form a pair of upstanding ribs spaced apart a uniform distance throughout their length and equal to the thickness of the rib of said first mentioned slide member, the base of said ribs being outwardly extended in opposite directions transversely of said ribs, the height of said ribs being substantially equal to the height of the rib on said first mentioned slide member, one of said slide members being adapted to be secured to said drawer, and the other of said slide members being adapted to be secured to said casing, whereby the rib of said first mentioned slide member will lie between and bear upon the spaced ribs of said second mentioned slide member and be guided and supported therein.

5. The combination with a casing and a drawer, of a plurality of parallel horizontally spaced slide members on the top of said casing and a plurality of parallel horizontally spaced slide members and on the bottom of said drawer, said slide members on said drawer being adapted to interengage with said slide members on said casing and to be guided and supported thereby.

6. The combination with a casing and a drawer, of a slide comprising a pair of members, one of said members having a tongue longitudinally thereof, the other of said members having a pair of spaced, upstanding parallel ribs longitudinally thereof forming a groove therebetween, one of said members being adapted to be secured to the side of the casing so that the ribs are positioned in vertical planes, the other of said members being adapted to be secured to the side wall of the drawer along the bottom

edge thereof, so that said tongue is positioned in a vertical plane intermediate the vertically positioned pair of ribs of the second member, whereby the first member may
5 ride upon and be supported by the ribs of the second member.

In testimony whereof, I have hereunto

signed my name in the presence of two subscribing witnesses.

JOHN G. WRIGHT.

Witnesses:

JOHN W. HILL,
BERTHA HARTMANN.