O. G. FRANKS.

EXTENSION TABLE SLIDE.

APPLICATION FILED NOV. 23, 1906. RENEWED SEPT. 3, 1908.

900,509. Patented Oct. 6, 1908.

2 SHEETS—SHEET 1.

Fig. 1.

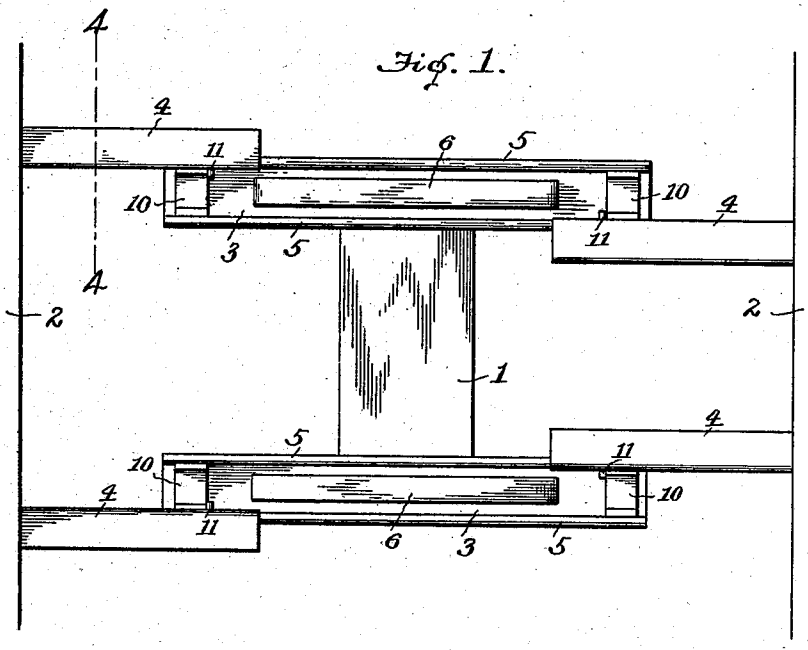
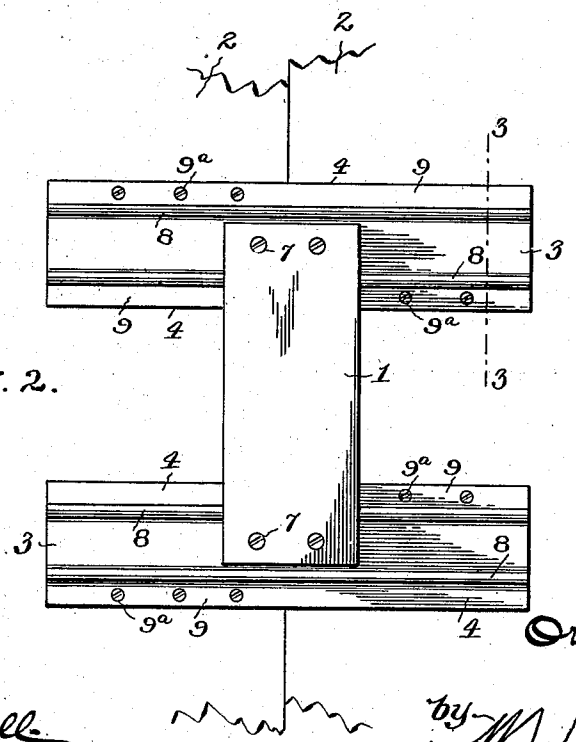


Fig. 2.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 6

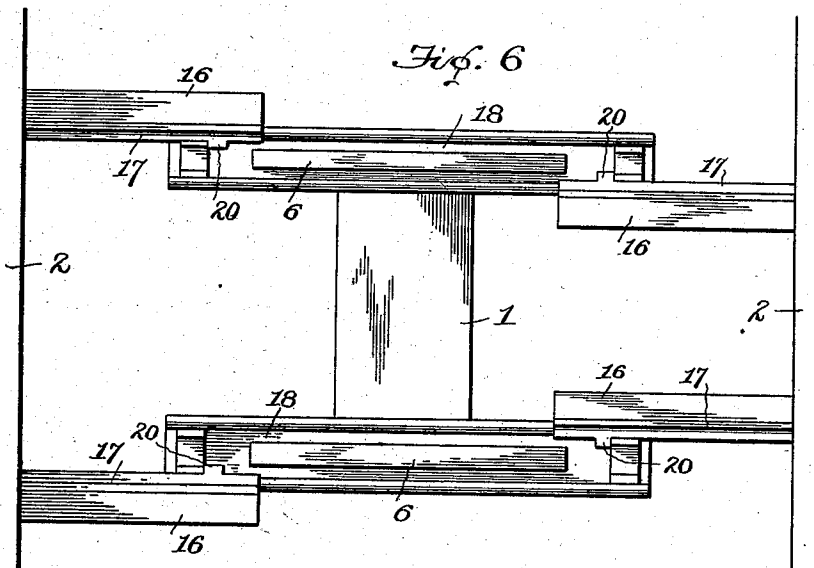


Fig. 8.

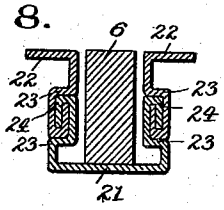


Fig. 3.

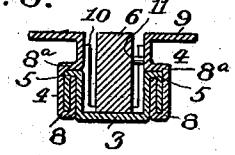


Fig. 7.

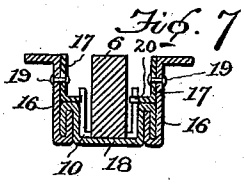


Fig. 4.

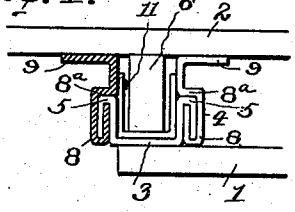
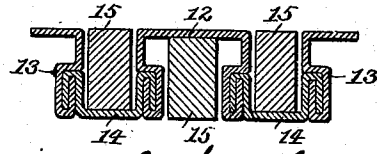


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

ORRIN G. FRANKS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE SENG COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

EXTENSION-TABLE SLIDE.

No. 900,509. Specification of Letters Patent. Patented Oct. 6, 1908.

Application filed November 23, 1906, Serial No. 344,676. Renewed September 3, 1908. Serial No. 451,607.

To all whom it may concern:

Be it known that I, ORRIN G. FRANKS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented an Extension-Table Slide, of which the following is a specification.

My invention relates to extension-tables, and more especially to improvements in the slides used in connection with such tables.

The primary object of my invention is to provide a set of extension-table slides which are made up entirely of stamped sheet metal and of such construction that the parts interlock to prevent lateral play or separation while permitting of a free longitudinal movement in the operation of opening and closing the table.

The invention further contemplates the provision of sheet metal slides which shall be light in construction, consistently with the required strength, strong and durable in use, and in which the peculiar manner of interlocking the slidable parts will insure a firm connection for the extensible sections of the table.

With these principal objects in view the invention consists in the particular construction and connection of the parts of the slides, as hereinafter described and specifically set forth in the appended claims.

In the accompanying drawings: Figure 1 is a plan view of an extension-table, with the top sections separated, showing the application of my improved slides thereto. Fig. 2 is an inverted plan view, the two sections of the table-top being shown closed together. Fig. 3 is a sectional view on the line 3—3 of Fig. 2. Fig. 4 is a detail sectional view, on the line 4—4 of Fig. 1. Fig. 5 is a sectional view showing the application of the invention to a five-part slide. Fig. 6 is a sectional view illustrating a slight modification of the invention. Fig. 7 is a sectional view through the parts or sections of the slide illustrated in Fig. 6. Fig. 8 is a sectional view of a second modification.

In the drawings I have illustrated only so much of an extension-table as will show the application of my invention, that is to say in addition to my improved slides there is shown the usual bridge-piece 1 and the top sections 2 2. The slides are duplicated at each side of the center of the table, as is usual, and therefore a description of one will refer also to the other.

3 designates that part of the connected slides which is secured to the bridge-piece 1, and 4 4 designate those parts which are secured to the top-sections 2 and slide upon the part 3; and in carrying out my invention said parts 3 and 4 are constructed of sheet metal plates which are bent in peculiar form so that when said parts are slid longitudinally into engagement with each other they will provide an interlocking extension-table slide in which lateral movement in any direction is prevented.

In forming the part 3 the metal plate is bent upon itself at each side of the center to produce the longitudinal tracks or rail portions 5 5, which are inverted **U**-shape in cross-section and are preferably spaced apart, as shown, to receive a strengthening block or wooden strip 6, which latter may also receive the screws 7 by which said part 3 is secured to the bridge-piece of the table. The part 4 of the slide is also formed of a strip of sheet metal the lower portion of which is bent upon itself to provide a longitudinal track or rail-portion 8, which is **U**-shape in cross-section and adapted to interlock with the correspondingly shaped, though inverted, track or rail-portion of the part 3. Said part or plate 4 above the **U**-shaped rail-portion thereof is bent or curved inward to form a shoulder 8^a, which bears upon the upper edge of the inverted **U**-shape rail-portion 5, and serves to lock these parts in longitudinal sliding engagement with each other. The upper part of the plate or part 4 is bent outward, as at 9, to provide a flange by which said part or section of the slide is secured to the table top, for which purpose ordinary wood-screws, as 9^a, may be employed.

The parts or sections 3 and 4 of the slide are disposed with respect to the parts of the extension table in the usual manner, that is to say a pair of the slide-sections 3 is secured to the bridge-piece 1 supported by the center leg of the table, while a pair of slide-sections 4 is attached to each section 2 of the table top and in slidable relation with the sections 3, respectively. In order to limit the slidable movement of the parts or sec-

tions 3 and 4 of the slide upon each other, to thereby prevent disengagement of the parts as well as provide for properly closing the table, I provide one of the parts of the slide, for instance the part 3, with a U-shaped stop 10 near each end, and also provide the companion parts or sections, as 4, with stop-pins 11, located to travel between the stops 10 so as to engage the same when the table is opened and closed.

It will be noted that the wooden brace or filling piece 6 not only reinforces the part or section 3 of the slide but also forms a support for the leaves of the table, inasmuch as the upper edges of said slide-section 3 are disposed some distance below the flanges 9, which latter are on a plane with the underside of the top of the table, and therefore the upper edge of the filling piece 6 is on a line with the upper surfaces of the flanges 9 of the slide-sections 4, as shown in Fig. 3 of the drawings.

I have so far described my improved extension-slide as consisting of three parts or sections, but it will be obvious, of course, that each slide may consist of a greater number of parts or sections, and I have therefore in Fig. 5 shown what is termed a five-part slide. In this arrangement the center section or part 12 is attached to the bridge piece of the table, the outer sections or parts 13 attached to the fixed sections of the table top, and the intermediate parts or sections 14 are in slidable engagement with said parts or sections 12 and 13. Filling blocks or wooden strips 15 are also provided, those attached to the intermediate sections 14 serving as rests for the leaves of the table while the filling strip which is attached to the center section or part 12 rests upon the bridge-piece of the table.

In Figs. 6 and 7 I have illustrated a slight modification of my invention, which consists in making the side or body portion of the section 16, corresponding with section 4, straight instead of bending the same inward, and employing an angle-plate 17 to form the shoulder which bears upon the upper edge of the rail-portion of the companion section 18, said angle-plate being secured by rivets 19, or other securing means. When these angle-plates are used the stops, as 20, are formed integrally therewith. The horizontally disposed portions of these angle-plates serve in the same capacity as the shoulders 8^a.

In the modification shown in Fig. 8 the part or section 21 of the slide which is attached to the bridge-piece of the table and the parts or sections 22 which are attached to the sections of the table top, are all bent to form shoulders 23, against which the rail-portions 24 of said sections bear, respectively, said shoulders 23 being similar to the shoulders 8^a, Fig. 3, the modification consisting therefore in merely extending the center slide to provide additional bearing shoulders under the rail portions of the end sections. By the construction shown in this modification the parts of the slide present a greater number of bearing surfaces, which results in a stronger and firmer connection and a greater distribution of the wear, thereby increasing both the stability and durability of the slide. In every instance, however, as will be seen, I provide an extension table slide each part or section of which is formed of sheet metal stamped or bent to produce a peculiarly shaped engaging portion or way adapted to interlock with a corresponding portion or way of a companion section of the slide, to restrict the parts or sections to a longitudinally sliding movement upon each other, and that the slide as a whole may be cheaply made and easily applied.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. An extension table slide comprising a section having an engaging portion or way substantially U-shape in cross-section and a lateral retaining flange at the open end of said U-shaped engaging portion, and a companion section having an engaging portion or way adapted to slidably engage the engaging portion or way of the other section and be retained in such slidable engagement by the flange, substantially as shown and described.

2. An extension table slide comprising sections having U-shaped portions in slidable engagement with each other, one of the members of each U-shaped portion lying within the other U-shaped portion, and a retaining flange on one of the sections of the slide adapted to bear against the curved end of the U-shaped engaging portion of the other section.

3. An extension table slide made up of sheet metal and comprising a center section bent upon itself at its longitudinal edges to provide engaging portions or ways of inverted U-shape in cross-section, outer sections bent at one of their longitudinal edges to provide U-shaped engaging portions or ways adapted to slidably engage the engaging portions or ways of the center section, and filling pieces secured to the center section between the ways thereon.

4. An extension table slide made up of sheet metal and comprising sections or plates bent at their longitudinal edges to provide engaging portions or ways substantially U-shape in cross-section, and inwardly projecting shoulders at the inner or open end of said U-shaped ways.

5. An extension table slide made up of sheet metal and comprising sections or plates bent at their longitudinal edges to provide engaging portions or ways substantially U-

shape in cross-section and further bent to produce shoulders at the inner or open end of said U-shaped ways.

6. An extension table slide made up of sheet metal and comprising sections or plates bent at their longitudinal edges to provide engaging portions or ways substantially U-shape in cross-section, shoulders at the open end of the U-shaped ways on one plate adapted to bear on the closed end of the U-shaped way of the other plate, and stops at the ends of the sections or plates to limit the sliding movement.

7. An extension table slide made up of sheet metal and comprising a center section or plate bent upon itself along its longitudinal edges to provide engaging portions or ways of inverted U-shape in cross-section, and outer sections or plates bent along one of their longitudinal edges to provide U-shape portions or ways corresponding with those of the center section, said outer sections or plates being also bent inward at an intermediate portion to form shoulders which bear upon the engaging portions or ways of the center section, substantially as shown and described.

8. An extension table slide made up of sheet metal and comprising a center section or plate bent upon itself along its longitudinal edges to provide engaging portions or ways of inverted U-shape in cross-section, and outer sections or plates bent along one of their longitudinal edges to provide U-shaped engaging portions or ways corresponding with those of the center section, said outer sections or plates being also bent at an intermediate portion to form shoulders which bear upon the engaging portions or ways of the center section; together with filling pieces secured to the center section between the ways thereon.

9. An extension table slide made up of sheet metal and comprising a center section or plate bent along its longitudinal edges to provide engaging portions or ways of inverted U-shape in cross-section and spaced apart, outer sections or plates bent along one of their longitudinal edges to provide U-shaped engaging portions or ways adapted to slidably engage the engaging portions or ways of the center section, filling blocks secured to the center section between the ways thereon, U-shaped stops secured to the center section, and pins projecting inwardly from the outer sections, substantially as shown and described.

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

ORRIN G. FRANKS.

Witnesses:
F. J. ZENG,
EDWARD J. SCHAGER.