Feb. 17. 1925. 1,526,506

C. T. SCHILLING

METALLIC SLIDE FOR EXTENSION TABLES

Filed Jan. 19, 1922 2 Sheets-Sheet 1

Fig. 1.

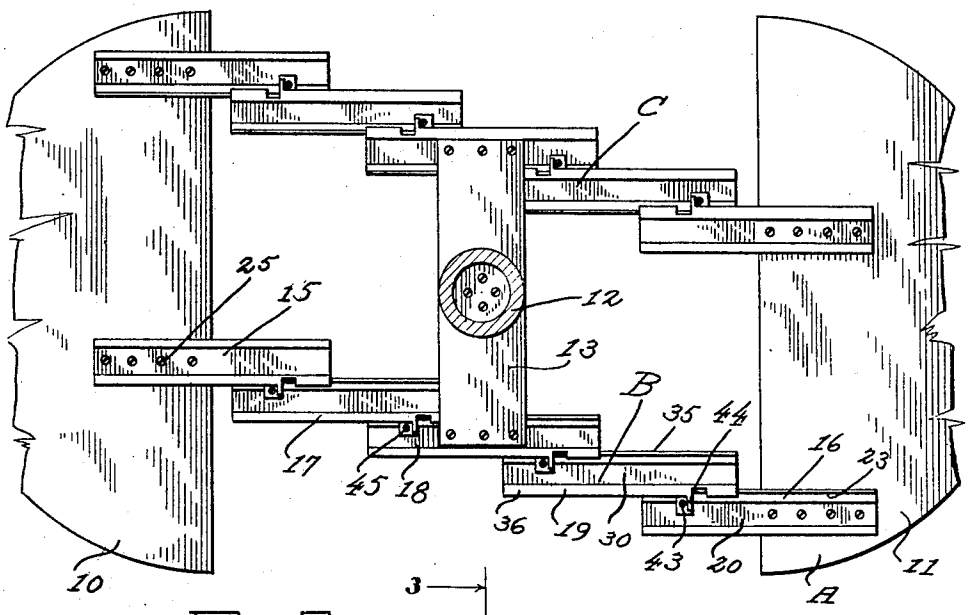
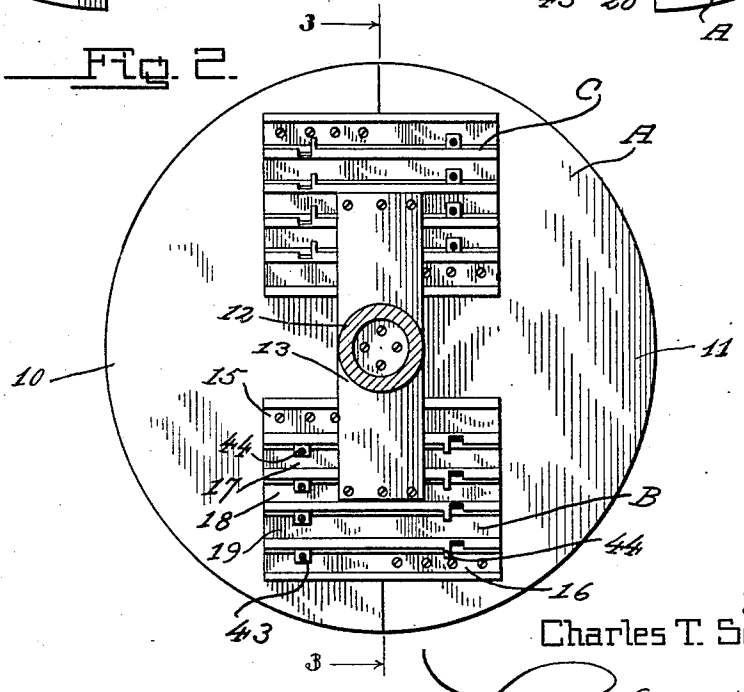


Fig. 2.



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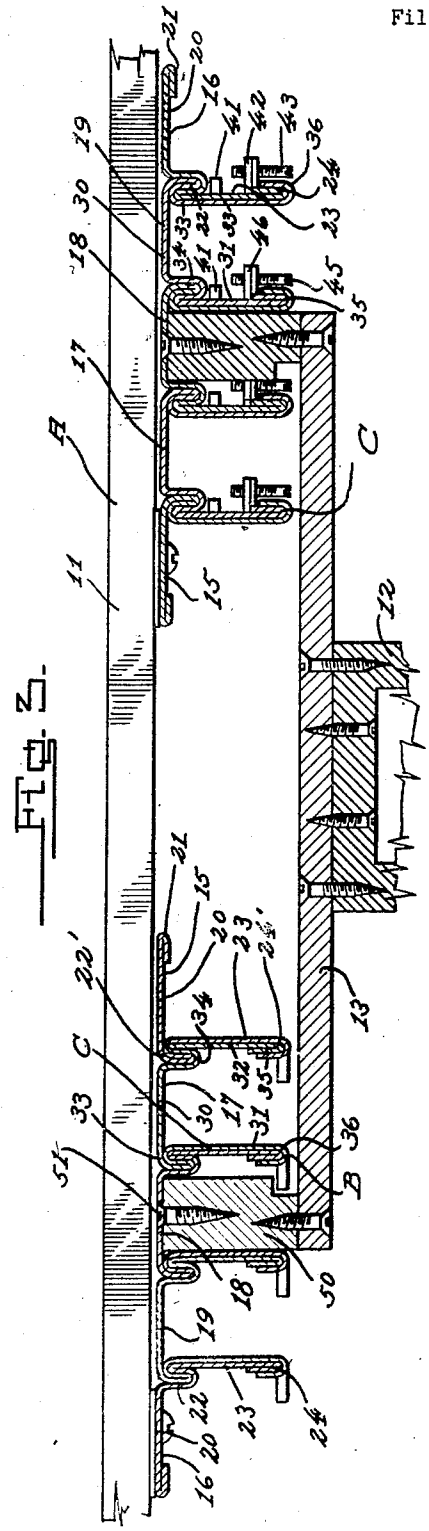


Fig. 2.

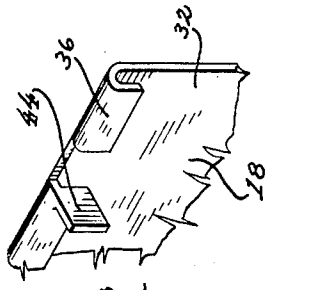


Fig. 7.

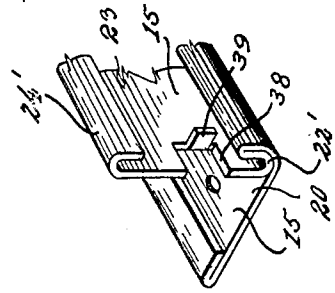


Fig. 6.

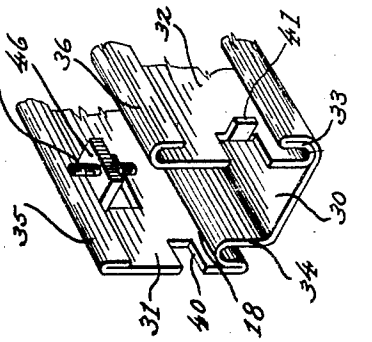


Fig. 5

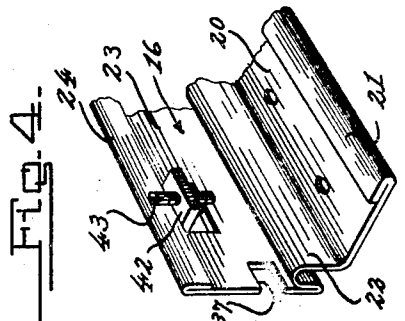


Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES T. SCHILLING, OF STATE COLLEGE, PENNSYLVANIA.

METALLIC SLIDE FOR EXTENSION TABLES.

Application filed January 19, 1922. Serial No. 530,384.

To all whom it may concern:

Be it known that I, CHARLES T. SCHILLING, a citizen of the United States, residing at State College, in the county of Center and State of Pennsylvania, have invented certain new and useful Improvements in Metallic Slides for Extension Tables, of which the following is a specification.

This invention relates to extension tables and more particularly to the slides thereof and the primary object of the invention is to provide a novel extension table slide in which the units thereof are all stamped or pressed from sheet metal, each unit being so formed that the same can be made from a single rectangular sheet of metal, thereby obviating the necessity of riveting or otherwise fastening pieces together as now contemplated in metal slides heretobefore patented.

A further object of the invention is the provision of a slide for extension tables having the units thereof so shaped as to combine with one another in such a manner as to permit free longitudinal sliding movement thereof but to absolutely preclude any lateral movement thereof, thereby providing a strong and rigid structure.

A still further object of the invention is the provision of a novel metallic table slide embodying a number of units which can be readily or quickly separated to permit more or less units to be added thereto or taken away therefrom according to the desired length to which the table is to be extended.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described, claimed and illustrated in the accompanying drawings, forming a part of this specification, in which drawings:

Figure 1 is a bottom plan view of a table top showing the improved slides associated therewith the table being in its extended position.

Figure 2 is a similar view with the table in its closed position and the slides in their collapsed position.

Figure 3 is a fragmentary transverse sectional view through the table top and slides.

Figure 4 is a fragmentary detail perspective view of one end of one of the end units of the slides; the unit being shown in inverted position.

Figure 5 is a detail perspective view of one end of one of the intermediate units of the novel slide, the unit being shown also in an inverted position.

Figure 6 is a perspective view of one end of the other companion end unit the unit being also shown in an inverted position, and

Figure 7 is a detail perspective view of one of the units of the slide showing the novel stop carried thereby.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A indicates an extension table; and B and C, the novel slides therefor.

The table A can be of the usual or any preferred type and therefore a description thereof is deemed unnecessary. As shown, however, the same includes the two top pieces 10 and 11, the central pedestal or leg 12 and the bridge piece 13 carried thereby.

The slides B and C are constructed identically the same and therefore a description of one is sufficient for both.

Each of the slides B and C include end units 15 and 16 and intermediate units 17, 18 and 19. As shown the slides each include five units, but it is to be understood however, that more or less units can be readily added thereto or taken therefrom. The end units 15 and 16 are formed substantially the same, while the intermediate units 17, 18 and 19 are constructed identically the same, and all of the units are so formed and constructed that the same can be cut and stamped from a single sheet of metal as will be hereinafter more fully apparent as the description proceeds.

Each of the end sections 15 and 16 include an attaching base 20, which has one longitudinal edge turned in abutting relation therewith as at 21 to provide a reinforcement therefor. The opposite longitudinal edge of the base 20 of the section 16 is bent outwardly into a substantially U-shaped form, to provide a guide or rail 22, while the corresponding portion of the bar 20 of the unit 15 is turned inwardly to provide the guide or rail 22′. The metal is then again bent back in parallel relation to the walls of the U-shaped guides or tracks 22 and 22′ at right angles to the attaching bases 21 to provide guide walls 23. The guide walls 23 of the unit 16 has its lower or free edge bent back upon itself as at 24 to provide a reinforcement for the guide

wall or plate 23 and to form an enlarged bearing surface, the purpose of which will be hereinafter more fully described, while the guide wall 23 of the unit 15 has its lower or free edge bent back to provide a guide or rail 24. The attaching bases of each of the units 15 and 16 are secured by suitable fastening elements 25 to the lower surface of the table top sections 10 and 11 and it can be seen that these units 15 and 16 extend inwardly from the inner edges of the table top sections.

The intermediate units 17, 18 and 19 are each constructed from a single sheet of rectangular metal and are all constructed substantially the same and are of approximately the same size as the end units 15 and 16. As clearly shown in Figures 3 and 5 of the drawings, the intermediate units 17, 18 and 19 are of substantially inverted U-shaped form and include a base or connecting portion 30 and depending side walls 31 and 32. In the forming of the side walls 31 and 32, the same are bent adjacent to the connecting base 30 to form guides or tracks 33 and 34, and it can be seen that these tracks are disposed in opposite relation and are substantially U-shaped in cross section. The outer or lower longitudinal edge of the side or guide wall 31 is bent back upon itself to provide a reinforcing rib or an enlarged bearing face 35, while the lower or outer edge of the guide wall 32 is bent back to provide a guide track 36 which is of substantially U-shaped form in cross section. It can be seen that the tracks 36 and 33 are disposed in opposite relation to each other and in vertical alignment. The unit 16 has its inner edge provided with a cut-out portion 37, while the outer edge of the unit 15 has its edge provided with a cut out portion 38 and the metal therefrom bent back to provide a stop lug 39.

The units 17, 18 and 19 have the inner edges of the guide walls 31 and 32 provided respectively with a cut out portion 40 and a stop lug 41. This stop lug 41 is struck out from the walls 32 of each of the last mentioned units.

The unit 16 has struck from the guide wall 23 thereof a right angularly extending lug 42 which adjustably supports a stop 43. This stop 43 as shown, is in the nature of a set screw, so as to permit the same to be readily moved out of the path of the stop lugs which will now be described. The stop lugs which engage the stop 43 are indicated by the numeral 44 and are disposed in a vertical plane and struck outwardly from the guide tracks 36 of each of the intermediate units 17, 18 and 19. The unit 15 is also provided with a stop 44 adjacent to its inner end, which is disposed in the path of the adjustable stop 45 carried by the struck out supporting plate 46, which is carried by the guide wall 31 of the section 17. The adjustable stop 45 in the plate 46 corresponds to the adjustable stop 43 and the plate 42 and each of the sections 17, 18 and 19 is provided with such a stop.

Each section 18 of the slides B and C carries a block 50 which may be secured to the section in any preferred manner, such as by screws or the like and these blocks 50 support the transversely extending bridge block 13 which carries the center leg or pedestal 12.

Now, it can be seen that the guide walls 31 of one of the intermediate sections is adapted to slidably fit in the guide tracks 33 and 36, so as to slidably connect these units together, and wall 31 of the section 19 is adapted to slidably fit within the guide tracks 22' and 24' formed on the end section 15, while the guide tracks 33 and 36 of the section 19 are adapted to slidably receive the guide wall 23 of the sections 16. By which arrangement, all of the units are slidably connected together and permit free longitudinal movement of the same in relation to one another. It can be seen, however, that broad guide walls or faces 23, 31 and 32 of the units will absolutely preclude any lateral movement of the units in relation to one another.

Now, during the opening movement of the table, the stop lugs 44 of the various units will lie in the path of the stop pins 43 and 45, which will prevent the disengagement of the units from one another, while during the closing movement of the table, the stop lugs 39 and 41 will engage in the notches 37 and 40 of the various units and thus permit the collapsing of the units and thus prevent the disengagement thereof. Now, when it is desired to add more units to the slide or take certain units from the slide, it can be seen that it is merely necessary to unscrew the stop pins 43 and 45 until the same ride above the upper edges of the stop lugs 44 formed on the units, which will permit the units to be slid from out of engagement with each other, or additional units slid in position.

From the foregoing description, it can be seen that an improved and novel metallic slide has been provided for extension tables, which will readily permit more units to be added to the slide or certain units to be taken from the slide in order to make the table larger and smaller and which will absolutely preclude any lateral movement of the sections in relation to each other and thus form a strong and durable table.

Changes in details may be made without departing from the spirit or scope of this invention; but,

I claim:

1. A metallic slide for extension tables comprising end units for engaging the sections of the tables and intermediate units,

the end units each including an attaching base and a depending guide wall, the intermediate units each including an attaching portion and depending guide walls, the guide walls of the various units having formed thereon longitudinally extending guide tracks and bearing faces for slidable engagement with each other, lugs extending transversely from the guide walls, and stop members adjustably carried by certain of said lugs and movable into and out of position for engaging cooperating lugs when the units are slid longitudinally of each other whereby these units may be limited in their sliding movement when the stop members are in an operative position and entirely moved out of engagement with each other when the stop members are moved out of an operative position.

2. A metallic slide for extension tables comprising end units for engaging the sections of a table and intermediate units, the end units being formed from a single rectangular sheet of metal and including an attaching base, and a depending right angularly extending guide wall, the intermediate sections each being formed from a single sheet of rectangular metal bent to a substantially U-form in cross section, each intermediate section including depending guide walls and a connecting top wall, the guide walls of the various units having formed thereon longitudinally extending guide tracks and bearing faces for slidable engagement with each other, stops struck out from the units for limiting the sliding movement of the sections in relation to each other, certain of the stops having adjusting members removably associated with the units whereby the units can be disconnected from one another to permit more or less units to be added to or taken away from the slide.

CHAS. T. SCHILLING.