O. M. OTTE.

FOLDING TABLE.

APPLICATION FILED AUG. 17, 1918.

1,300,862. Patented Apr. 15, 1919.

Fig. 1.

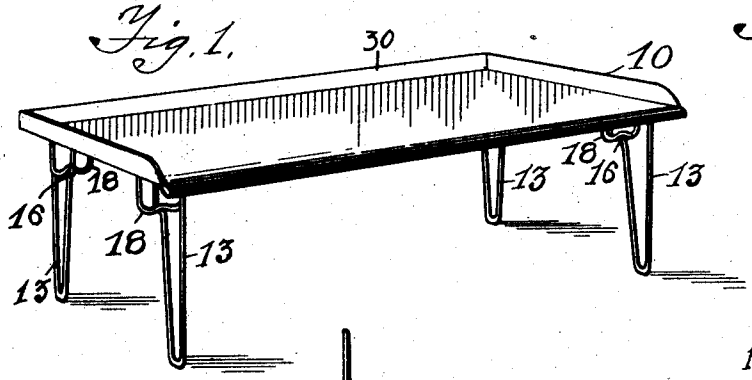


Fig. 2.

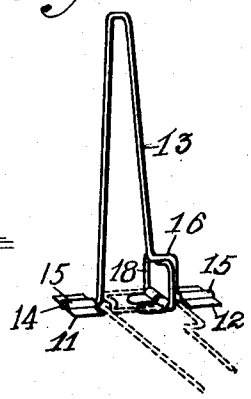


Fig. 3.

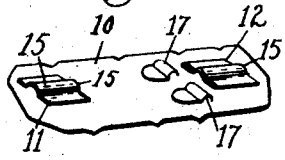


Fig. 4.

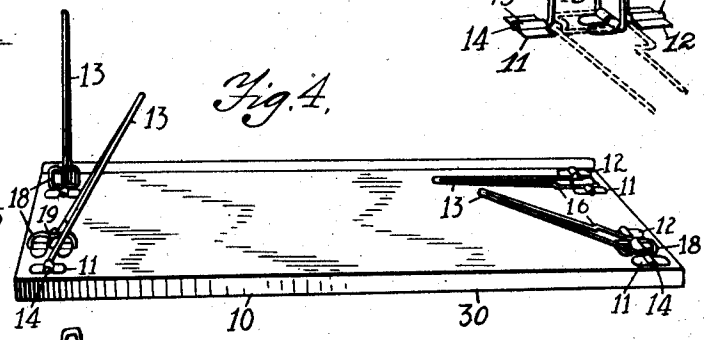


Fig 5

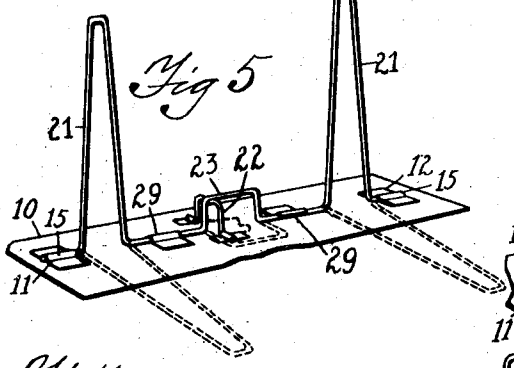


Fig. 6.

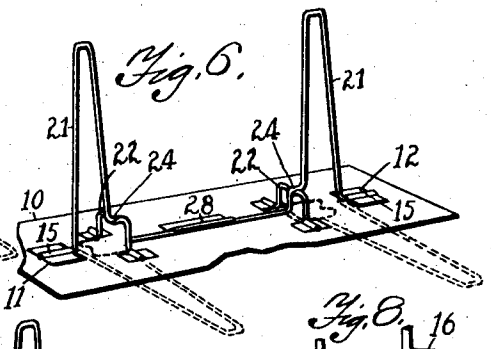


Fig. 11.

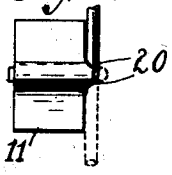


Fig. 7.

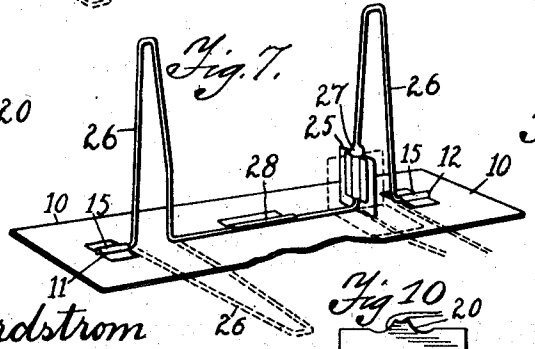


Fig. 8.

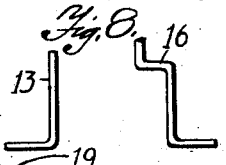


Fig. 9.

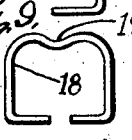


Fig 10



Witness

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FOLDING TABLE.

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To all whom it may concern:

Be it known that I, OTHO M. OTTE, a citizen of the United States, residing at the city of Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Folding Tables, of which the following, taken in connection with the accompanying drawings, is a specification.

The invention relates to folding metallic tables; and the invention consists in providing a simple top with a guard around three sides and with folding bent rod legs of the desired length preferably in the V or U-shape, which legs are removable for ease in assembling and for small space in shipment, being specially adapted to hospital and similar uses; and the invention consists in the novel features and combinations hereinafter set forth and claimed.

In the drawings, Figure 1 is a perspective view of the preferred form of the table in the set up position; and Fig. 2 is a perspective view of the preferred form of folding leg in the set up position with the folded position suggested in dotted outline. Fig. 3 is a perspective view of the under side of a portion of the double top showing the attaching clips for the removable legs and the lock therefor. Fig. 4 is a perspective view of the underside of the table with the four folding legs in different adjustments, from the set up to the completely folded positions. Fig. 5 is a perspective view of a modification of the spring folding legs showing an end pair of spring legs shaped from one rod and having a single central supporting bracket instead of individual supporting brackets or lock pieces; and Fig. 6 is a still further modification with a pair of legs for one end of the table having two locking or supporting brackets; and Fig. 7 is a perspective view of a still further modification especially of the folding support or lock piece. Fig. 8 is a detail perspective view of the hinging angular ends of the individual folding leg removed from the holding brackets; and Fig. 9 is a detail view of the preferred form of the holding clip or lock piece removed from its holding brackets. Fig. 10 is a plan view of the blank of one of the outer brackets or clips showing the locking notches for the spring leg for both the folded and set up positions; and Fig. 11 is a similar view of the finished outer holding bracket with the angular leg end hinged therein in the locked folded position, the other locking positions being shown in dotted outline.

Like characters of reference refer to corresponding parts in the several views.

The numeral 10 designates the top which is preferably made from sheet metal in the desk or guarded form so that the top and flanged edges may be enameled, preferably with vitreous enamel. It would not however depart from my invention to provide said table with a flat top. The present arrangement of top is designed for army hospital use so that the table may be set over a cot, the legs being of sufficient length to provide room for the patient and cot beneath the table top when said table is in the set up position with the legs on the opposite sides of the cot.

The folding legs comprise the clips or hinging bracket pieces 11 and 12 which are attached in spaced relation to the underside of the top 10 at the points where it is desired to attach the folding legs. The single leg 13 is preferred and is made in the U-shape with the angular outwardly turned ends 14 which spring into the hinging openings formed by the curved portions 15 of the clips or brackets 11 and 12 so that said leg 13 may be sprung into holding engagement beneath said clips or resiliently removed therefrom by compressing the leg. It is apparent that when the leg 13 is sprung into said holding position it will fold flat against the lower side of the top 10 and occupy small space. The folded leg 13 has the shoulder made by the angular bend 16 a spaced distance from the clip 12. A separate pair of hinging clips 17 is provided for hinging a spring wire brace or lock-piece 18, which is shaped with a downwardly curved notch 19 in its top portion, which notch 19 engages beneath the angular curve 16 in the spring leg 13 thereby firmly supporting the leg 13 in the set up position.

In order to hold the U-shaped leg 13 in the folded as well as in the set up position, a series of notches 20 are provided in the inner end of the curved portion 15 of one or both of the clips 11 and 12, though preferably in the outer clip 12, into which notches the resilient leg 13 springs, the notches 20 being so placed as to lock the leg 13 firmly against the underside of the top 10 when

folded and aiding in holding and locking said spring leg 13 in the set up position. The resilience of the spring leg 13 permits the easy removal of said leg from its binding engagement in any of said notches 20. Said notches are usually three in number, one being placed vertically on the top of the tubular portion 15 and the other two in each side so that the leg 13 may be folded and locked on either side of the bracket or clip 12, thereby preventing the dropping or free swinging of said leg 13 from its folded position.

A double folding leg may be used without departing from my invention as shown in the modifications in Figs. 5, 6 and 7. When the integral double leg is used it preferably has the single locking clip 22 beneath a central bent up portion 23 as shown in Fig. 5. The double locking leg shown in Fig. 6 is merely the duplication of the single leg 13, having a pair of locking legs 22 which engage beneath oppositely placed angular shoulders or bends 24. While the double legs 21 can be set up quicker than the individual or single leg 13 yet on account of their lack of rigidity as compared with the leg 13, said individual leg is preferred as stated.

A further modification of the double leg is shown in Fig. 7 in which the end pair of folding legs 26 has a metal plate 25 swiveled about one of the arms of the leg close to the underside of the top 10 so that the edge of the plate 25 presses firmly against the underside of the table top 10 when in the set up position, thereby holding said leg firmly in position, a small enlargement or shoulder 27 being provided to hold the plate 25 in place so that it can be turned parallel with the underside of the top 10 when in the folded position and in angular relation to said leg 26 when in the set up position.

Both the single and double forms of legs 13, 21 or 26 are removable from the table top 10 or attachable thereto in assembling the same, by pressing the resilient spring legs together sufficiently to permit the turned angular ends 14 to be inserted into or removed from the tubular portions 15 of the clips or hinging brackets 11 and 12, or the double legs 21 and 26 from beneath the clips 12 and 28. The clips 28 are made with one side attached to the plate 10 and have a sufficient opening beneath the bent up curved sides 29 to permit twisting and springing the cross rod of the double leg into or out of engagement beneath said clips 28 on their oppositely turned open sides. This is easily accomplished by twisting said legs 21 or 26 into or out of engagement with said oppositely turned bent up ends 29, the removable legs permit their being tied in bundles for shipment and also allows internesting the tops 10 thereby greatly reducing the space required for crating and shipment.

The top 10 is preferably made with the sheet metal guard or flange 30 extending around three sides thereof thereby preventing articles from rolling or being easily brushed from said top. The unguarded side is placed toward the patient or user of the top.

I claim as new:—

1. In a folding table, a top, substantially U-shaped legs pivoted to the top, one side of each of the legs being bent outwardly at approximately right angles to form a shoulder spaced from the adjacent end of said side of the leg, and a brace composed of a rod bent into approximately rectangular form, and pivoted in a plane at right angles to the plane of the pivot of the leg and in said space between the shoulder and the adjacent end of said side of the leg to engage said shoulder.

2. In a folding table, a top, substantially U-shaped legs pivoted to the top, one side of each of the legs being bent outwardly at approximately right angles to form a shoulder spaced from the adjacent end of said side of the leg, and a brace composed of a rod bent into approximately rectangular form, having one side pivoted in a plane at right angles to the plane of the pivot of the leg and in said space between the shoulder and the adjacent end of said side of the leg and having its opposite side formed with a concaved part to engage and receive said shoulder.

3. In a folding table, legs having outwardly extending shoulders spaced from the top in erected position of the legs, a brace for each shoulder arranged in said space and means to pivotally mount the legs so that when the legs are in normal position same extend at right angles to the top and when the braces are moved into operative position the shoulders can be sprung to allow the braces to engage with same and the top.

4. In a folding table, a top, legs having movement of 180° and having outwardly extending shoulder means spaced from the top in erected position of the legs, and means arranged in said space between the top and shoulders to hold the legs erected and in a plane at right angles to the plane of the top, said means having opposite parts to positively engage against the top and downwardly against the shoulders and one of said means being resilient so as to hold the legs erected and under tension.

5. In a folding table, a top, legs formed of wire and having portions bent outwardly therefrom to form shoulders spaced from the top in erected position of the legs, means to mount the legs so as to allow same to have movement of 180° and to permit said

shoulders to be resilient with respect to the top, and means arranged in said space between the top and shoulders to hold the legs erected and in a plane at right angles to the plane of the top, said means having opposite parts to positively engage against the top and downwardly against the shoulders so as to hold the legs erected and under tension.

In testimony whereof I have affixed my signature in the presence of two witnesses.

OTHO M. OTTE.

Witnesses:
H. A. SANDBERG,
I. E. NORDSTROM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."