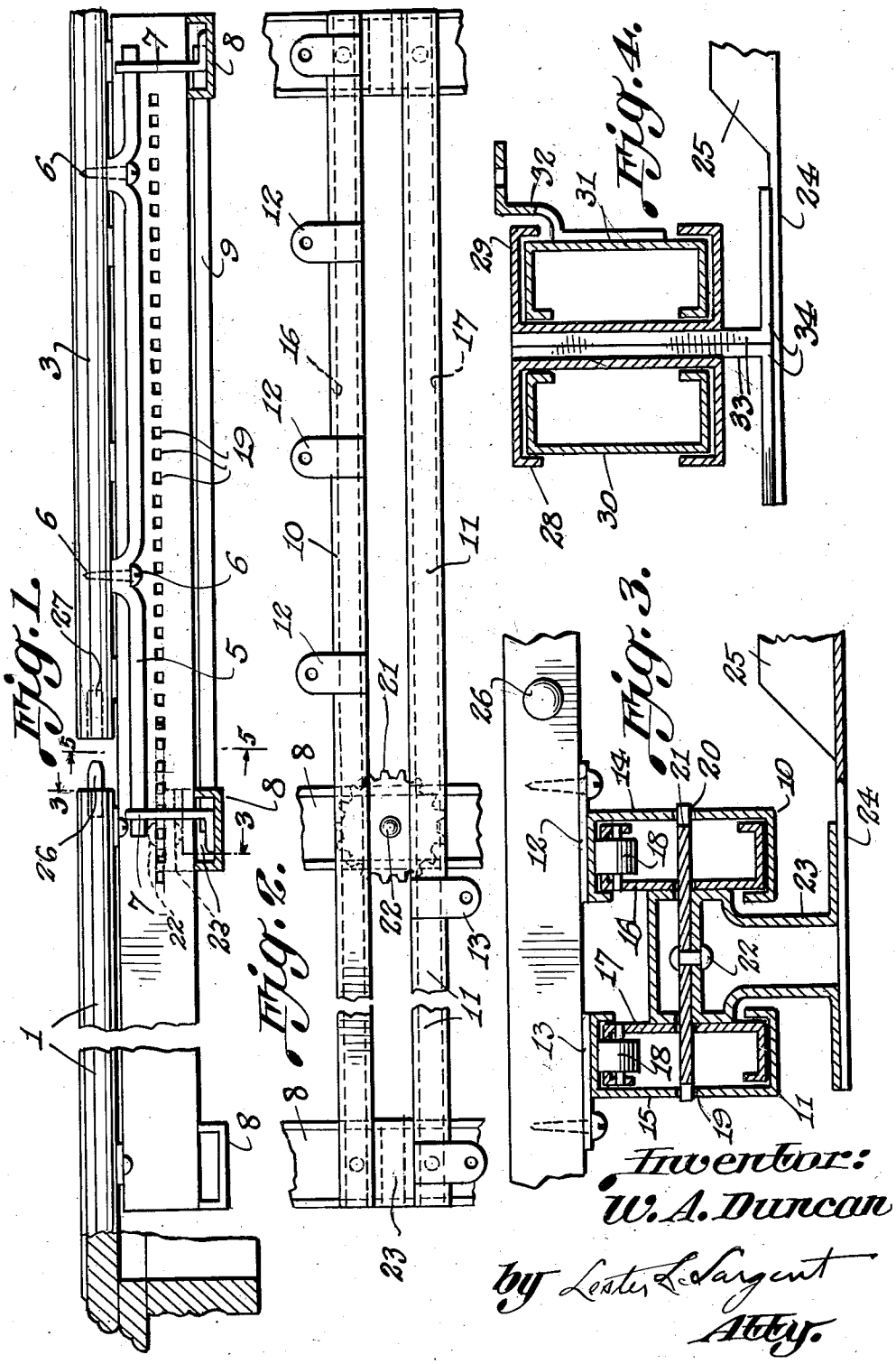
June 4, 1935. W. A. DUNCAN 2,003,926

TABLE WITH FOLDABLE LEAVES

Filed March 24, 1933 2 Sheets-Sheet 1



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Filed March 24, 1933 2 Sheets-Sheet 2

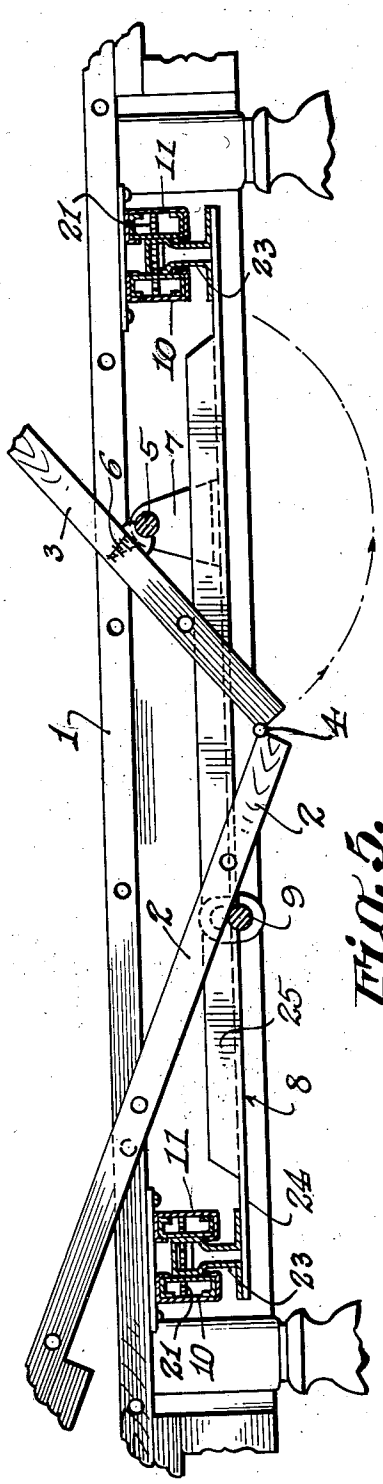

Fig. 5.

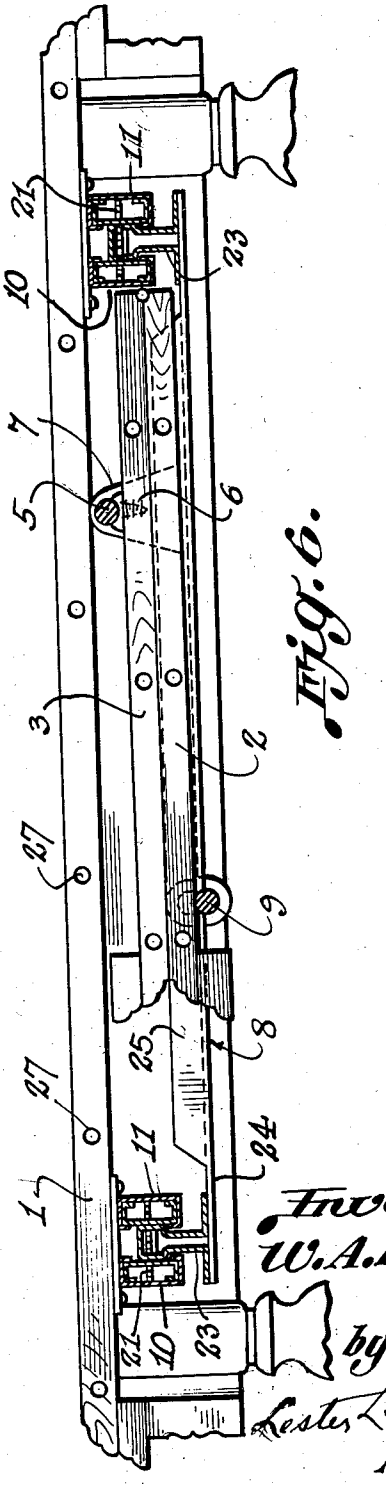

Fig. 6.

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TABLE WITH FOLDABLE LEAVES

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Application March 24, 1933, Serial No. 662,590

5 Claims. (Cl. 311—73)

The object of my invention is to provide novel tables with removable leaves; to provide improved means for adjustably extending the table to the desired length; to provide novel means for folding the leaves and supporting them in concealed position under the table. It is also an object of my invention to provide novel combination and arrangement of parts of novel telescopic elements for such tables.

I attain these and other objects of my invention by the mechanism illustrated in the accompanying drawings, in which,—

Figure 1 is a side elevation of a portion of the table top in a plane at right angles to that shown in Fig. 5, with the side rails removed and with a portion of the end of the table broken away and shown in section, and a portion of two of the members 8 broken away and shown in section in a plane in proximity to members 7;

Fig. 2 is a top plan view of the mechanism for adjusting the length of the table, with the table top removed;

Fig. 3 is a vertical section on line 3—3 of Fig. 1;

Fig. 4 is a similar vertical section of a modified form of the invention without the equalizing gear 21;

Fig. 5 is a transverse section of the table on line 5—5 of Fig. 1, with the folding leaves of the table in partially folded position;

Fig. 6 is a section similar to Fig. 5 but with the leaves of the table folded to the position they occupy when folded beneath the table;

Like numerals designate like elements in the several views.

Referring to the accompanying drawings I provide an extension table having a table top 1, a sliding leaf 2 and a pivoted leaf 3 hinged at 4 to permit of the leaves being swung to a folded position beneath the table top 1. The leaf 3 is fixed by screws 6 to a rod 5 which is pivotally mounted and slidable on brackets 7 which in turn are mounted on metal straps 8 that are disposed beneath the table, as shown in Fig. 1. I provide a rod 9 extending longitudinally of the table and spaced substantially below the table top on which the leaf 2 slides while moving to its folded and concealed position.

I provide an outer telescopic C-shaped member or hollow bar 11 rectangular in cross section, within which I provide a telescopically O-shaped member or hollow bar 17 rectangular in cross section. Spaced from these two members I provide an outer telescopic O-shaped member 14 within which an inner C-shaped telescopic member 16 is telescopically slidable. I provide roller bearings 18 carried by the members 17 and 16, as shown in Fig. 3; these rollers rolling on the members 11 and 10 as shown. I provide spaced apertures 19 in the web 15 of outer telescopic member 11; and spaced apertures 21 in the outer web 14 of the outer telescopic member 16. I provide an equalizing gear 21 mounted for rotation on pivot 22 and having its teeth engaging in the apertured portions of the webs 14 and 15 of members 10 and 11.

Affixed to telescopic bars 10 is a bracket 23 in which the gear 21 is rotatably mounted and by means of which it is supported in the telescopic members as shown in the drawings. The straps 8 have reduced ends which are secured to brackets 23 as shown in Figs. 5 and 6 and the main portions of the straps have upstanding sides 25.

As shown in Fig. 1 I provide pins 26 projecting from the edge of the fixed portions of the table top and correspondingly positioned sockets 27 in the leaves 2 and 3.

To operate the hinged leaves to a folded position the leaf 3 is swung about the pivot 5, as shown in Fig. 5, this pivot point being off center. The half leaf 3 swings up and over, and the hingedly connected half leaf 2 swings down and under so that when the leaf is completely folded it is drawn in and stored beneath the lower plane of the table top, as shown in Fig. 6.

One of the outer telescopic members is affixed to one end table section, while the other outer telescopic member is affixed to the other end table section to permit extension of the table. The gear 21 effects even movement of the members in opposite directions toward or from each other.

Referring to Fig. 4 of the drawings, there is illustrated a modification of the invention in which the equalizing gear 21 is eliminated. In this form of the invention I provide an outer telescopic member 28 in which is telescopically slidable the inner telescopic member 31. I also provide brackets 32 attached to the inner telescopic members 31 and 30. Disposed between members 28 and 29 and depending from beneath the table top, I provide brackets 33 having feet 34 disposed at right angles and to which the reduced end 24 of straps 8 are attached in the same manner as illustrated in the form of my invention shown in Figs. 1–3 inclusive.

What I claim is:

1. In an extension table, the combination of telescopic members consisting of a pair of outer

hollow bars rectangular in cross section and having a longitudinal slot along the inner side thereof, a pair of inner hollow bars rectangular in cross section and having a longitudinal slot along the outer side thereof, said inner bars being telescopically mounted in the outer bars, the outer bars having a series of spaced apertures in their vertical webs, and a gear meshing in the apertures of said webs whereby movement of one of said telescopic members will cause a corresponding reverse movement of the other telescopic member.

2. In combination with the apparatus defined in claim 1, a bracket on which the aforesaid gear is mounted, and means beneath the table for carrying said bracket.

3. In combination with the apparatus defined in claim 1, the said inner bars carrying roller bearings engaging the inner surface of the outer bars.

4. In an extension table, the combination of telescopic members consisting of a pair of outer hollow bars having a longitudinal opening along one side of each of said bars, and each having a vertical side, a pair of inner hollow bars telescopically mounted in the outer bars, and each having a vertical side, one of the pairs of bars having a series of spaced apertures in their like vertical sides, a gear meshing in the apertures of said sides, whereby movement of one of said apertured telescopic bars will cause a corresponding reverse movement of the other apertured telescopic bar.

5. In combination with the apparatus defined in claim 4, a bracket on which the aforesaid gear is mounted, and means beneath the table for carrying said bracket.

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