

Jan. 12, 1937.

R. A. MAVES

2,067,775

FOLDING TABLE

Filed July 29, 1935

2 Sheets-Sheet 1

Fig. 1.

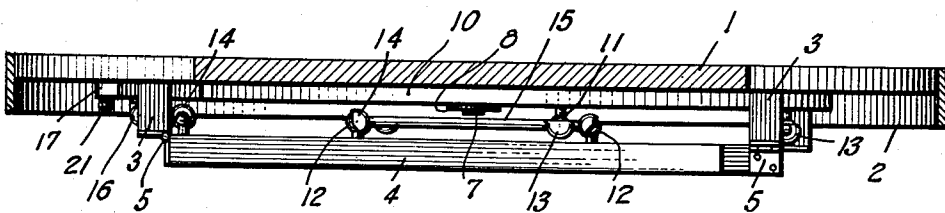
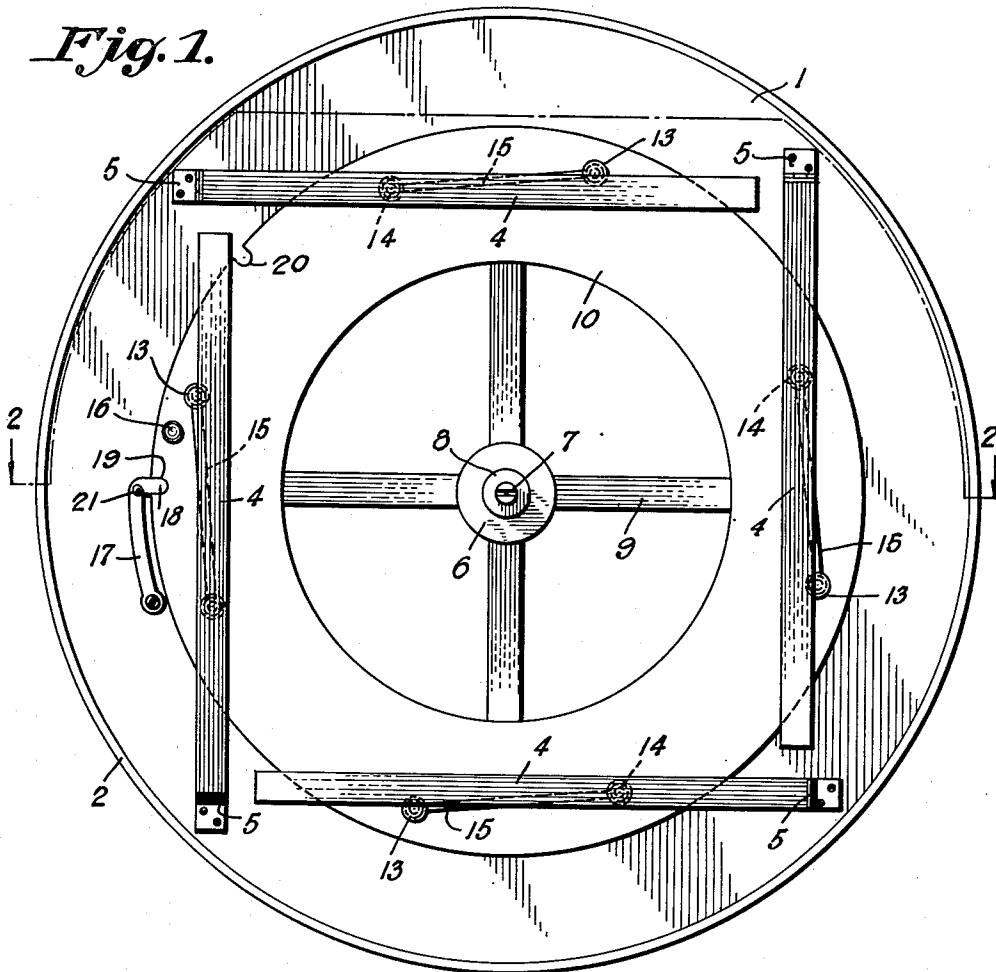


Fig. 2.

Ralph August Maves,

INVENTOR

BY *Victor J. Evans & Co.*

ATTORNEY

Jan. 12, 1937.

R. A. MAVES

2,067,775

FOLDING TABLE

Filed July 29, 1935

2 Sheets-Sheet 2

Fig. 3.

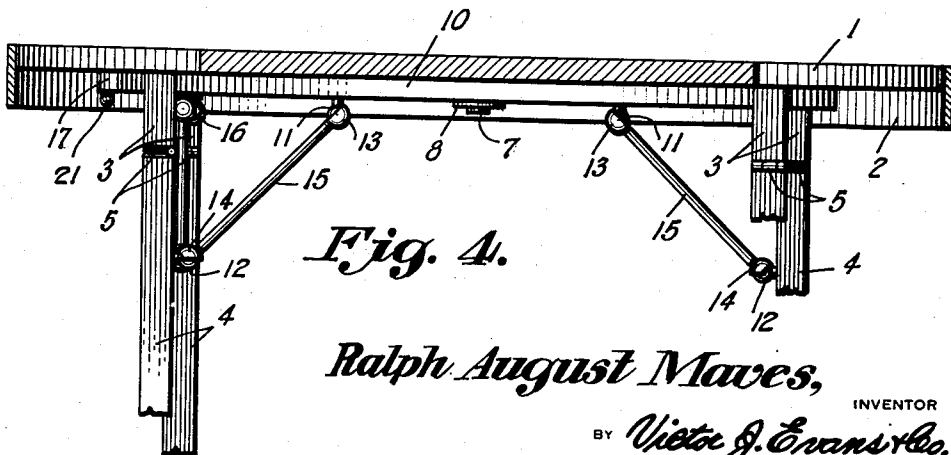
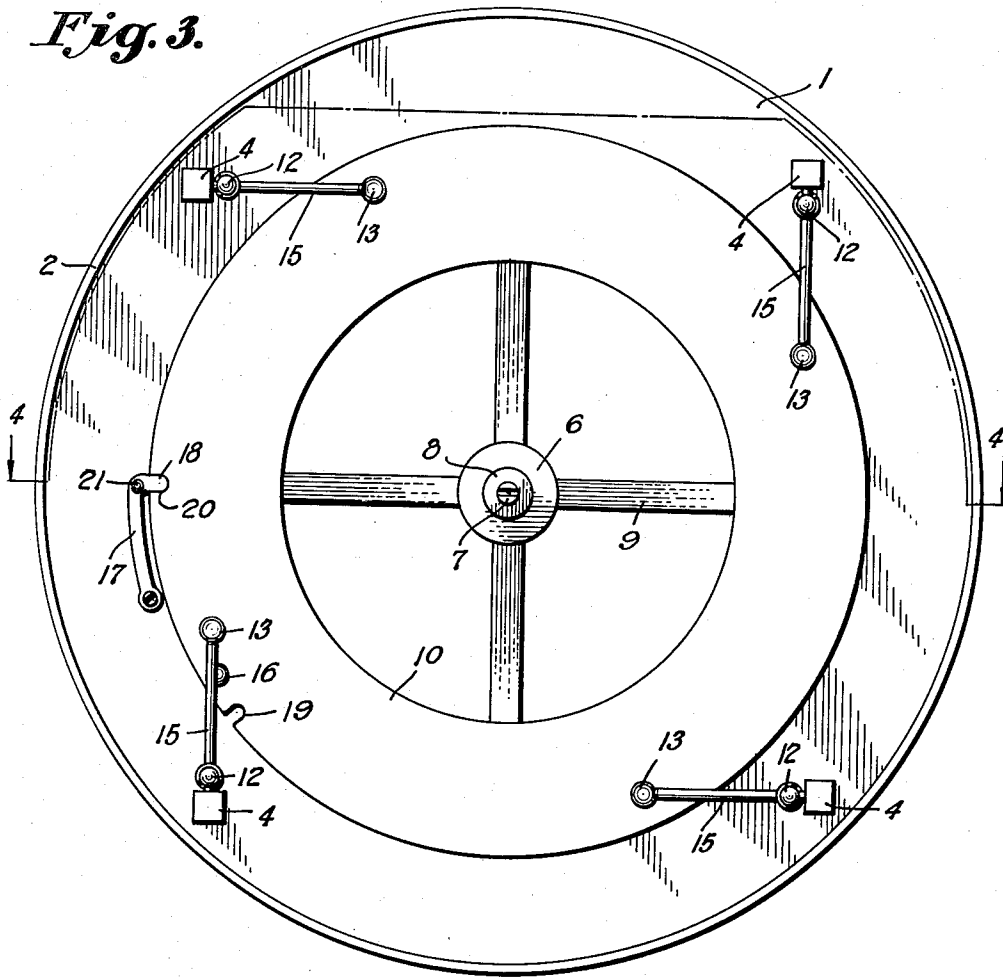


Fig. 4.

Ralph August Maves,

INVENTOR

BY *Victor J. Evans & Co.*

ATTORNEY

UNITED STATES PATENT OFFICE

2,067,775

FOLDING TABLE

Ralph August Maves, Fort Snelling, Minn.

Application July 29, 1935, Serial No. 33,762

1 Claim. (Cl. 311-82)

This invention relates to folding tables and its general object is to provide a table that includes foldable legs capable of being moved in unison to either a folded or a set-up position, in an easy and expeditious manner, and the legs are held in either position against casual movement or displacement.

Another object of the invention is to provide a table with foldable legs having braces acting as such, as well as moving means therefor.

A further object of the invention is to provide a table of the character set forth, that is simple in construction, inexpensive to manufacture, and extremely efficient in use, operation and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings where-in like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a bottom plan view of the table which forms the subject matter of the present invention, with the legs in folded position and latched accordingly.

Figure 2 is a sectional view taken approximately on line 2-2 of Figure 1, looking in the direction of the arrows.

Figure 3 is a bottom plan view of the table with the legs in unfolded or set-up position.

Figure 4 is a sectional view taken approximately on line 4-4 of Figure 3, looking in the direction of the arrows.

Referring to the drawings in detail, the reference numeral 1 indicates the top of my table which is shown as being round, but of course it can be square or other shapes. Secured about the outer edge of the top 1 in the form as shown, is a flange 2 that depends below the undersurface of the top, a suitable distance.

Secured to the undersurface of the top 1 and depending therefrom, preferably adjacent the edge thereof are blocks 3, each of which has hingedly secured thereto a leg 4, through the instrumentality of a hinge 5 of the usual strap type.

The means for actuating the legs or for moving them on their pivots or hinges to either folded or unfolded positions, includes a central disk 6 rotatably mounted upon a bearing screw 7 secured to and depending from the center of the undersurface of the top 1. A bearing washer 8

is received by the screw 7 and contacts the disk, as shown. Radiating from the disk 6 are spokes or arms 9 which have their outer ends secured to the inner side of a ring member 10.

Secured to the ring member 10 by shanks as shown, are balls 11, while a like ball 12 is secured to each of the legs, and these balls provide a part of a ball and socket joint connection between each of the legs and the ring member. The socket cups which are indicated by the reference numerals 13 and 14 are formed on or otherwise secured to the ends of links 15, there being one link for each leg and the balls 11 and 12 are received in the socket cups 13 and 14.

In order to rotate or oscillate the ring member 10, a knob 16 is secured thereto, and it will be obvious that due to the ball and socket connection between the legs and the ring member, that when the latter is rotated in one direction, the legs will be moved on the hinges to an unfolded or set-up position, and when rotated in an opposite direction, the legs will be moved to a folded position. It will be further obvious that the links not only act as means for moving the legs to the respective positions, but also as brace means for holding the legs in their unfolded or set-up position.

I likewise provide latching means for holding the legs in either of their positions, and the latch means includes an arm 17 having one end pivotally secured to the underside of the top 1, and extending at right angles from the free end of the arm 17 is an inwardly directed portion 18 to be received in either of the notches 19 or 20, that are arranged in the outer edge of the ring member as clearly shown in Figures 1 and 3 of the drawings.

When the latch arm is received in the notch 19, the legs are held in folded position as shown in Figure 1, and when it is received in the notch 20, the legs are held in an unfolded position as shown in Figure 3. The latch arm has secured thereto a knob 21, to facilitate its operation.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:

A table comprising a top, blocks secured to and depending from the top adjacent to the edge thereof, legs for the table, hinges secured to the

undersides of the blocks and the upper ends of the legs for connecting the latter to the top, means mounted for rotation on and centrally of the underside of the top and including a disk, spokes radiating from the periphery of the disk, a horizontally disposed relatively wide flat ring member secured to the outer ends of the spokes with the latter extending from the inner periphery of the ring member, ball and socket link

connections extending between the underside of the ring member adjacent the outer periphery thereof and certain sides of the legs and secured thereto for disposing the legs into folded or set up positions upon rotation of the ring member, and latching means for holding the legs in their folded and set up positions.

RALPH AUGUST MAVES.