

April 7, 1925.

1,532,996

N. GIARD

EXTENSIBLE TABLE

Filed Oct. 1, 1923

2 Sheets-Sheet 1

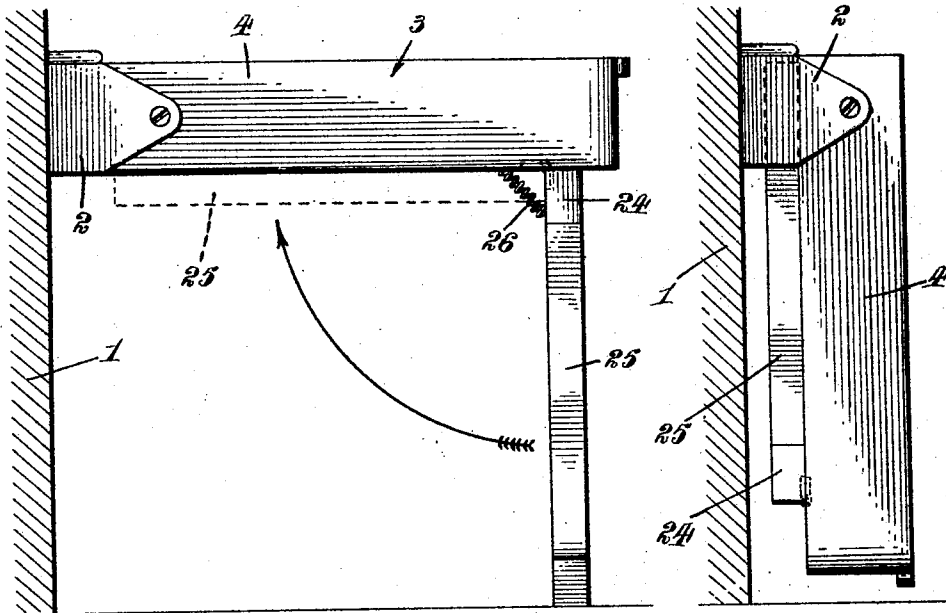


Fig. 1.

Fig. 2.

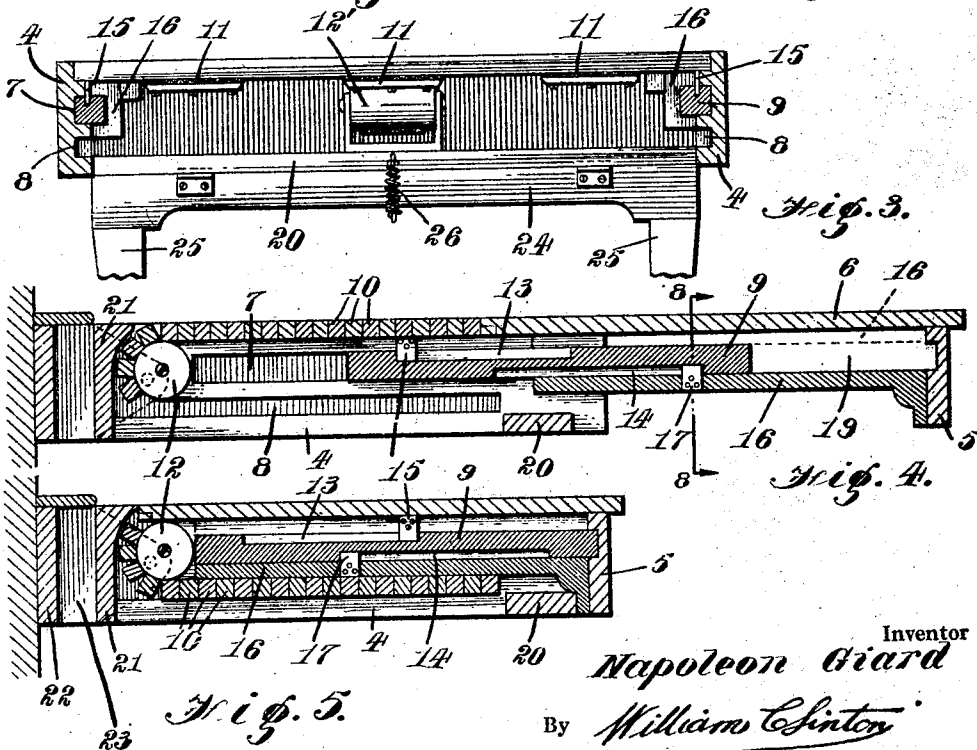


Fig. 3.

Fig. 4.

Fig. 5.

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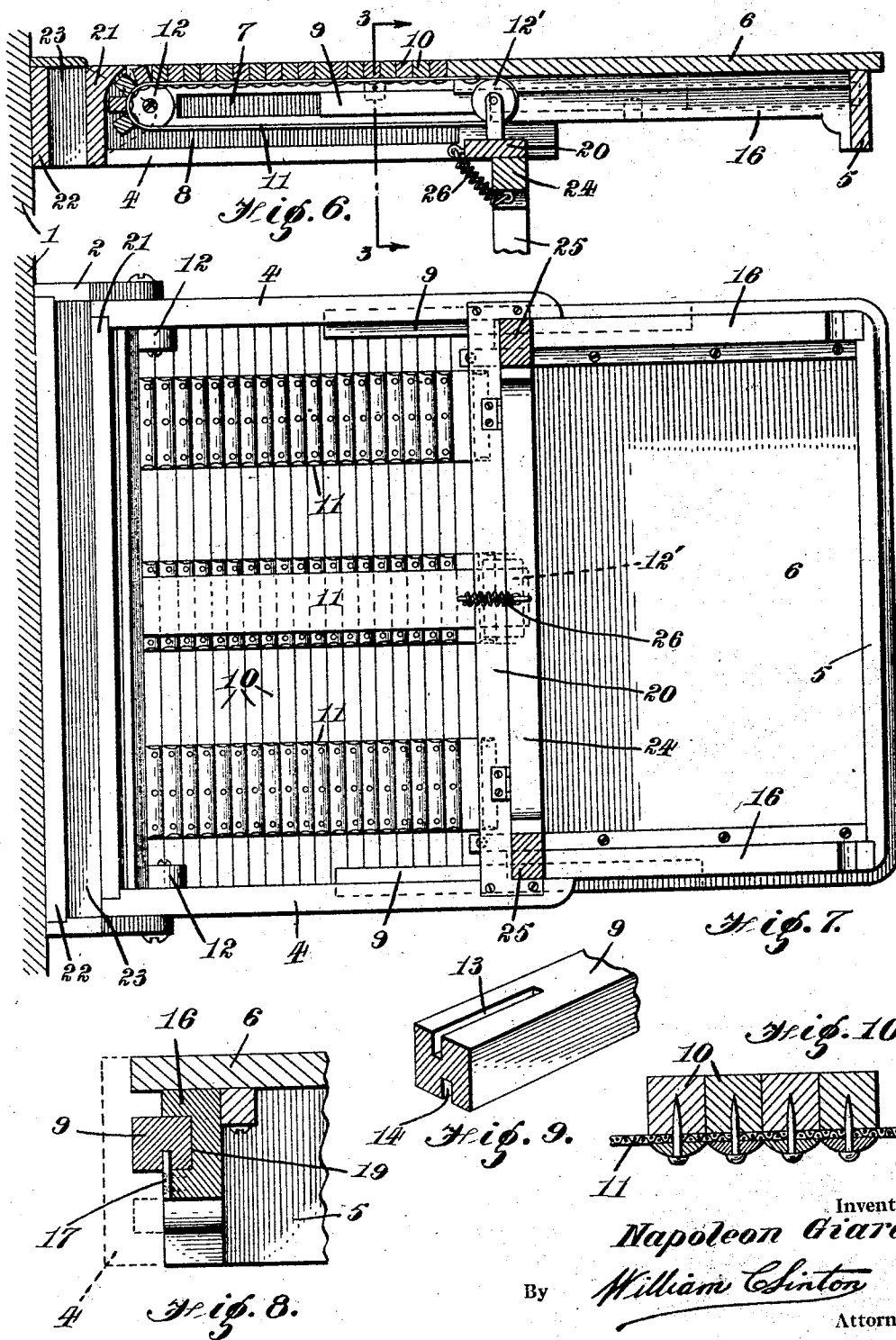
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EXTENSIBLE TABLE

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2 Sheets-Sheet 2



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Patented Apr. 7, 1925.

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UNITED STATES PATENT OFFICE.

NAPOLÉON GIARD, OF ST. MICHEL DE ROUGEMONT, QUEBEC, CANADA.

EXTENSIBLE TABLE.

Application filed October 1, 1923. Serial No. 686,002.

To all whom it may concern:

Be it known that I, NAPOLÉON GIARD, a subject of the King of Great Britain, residing at St. Michel de Rougemont, Province of Quebec, Canada, have invented certain new and useful Improvements in Extensible Tables; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention pertains to a novel extensible table, the top of which may be expanded without requiring additional supporting legs.

The article constructed according to the invention is adapted to have one end hinged to a wall. The remaining end carries a pair of legs which may be folded against the bottom of the table proper so that the latter may be swung outwardly when the device is not in use. In this position it occupies but a very small space adjacent the vertical support.

The table proper above referred to comprises a pair of side members which carry a slidable top. Each side member carries a slide which is adapted to move with the slidable top. The top carries supporting strips which engage the slides in all positions. The slides and associated parts of the device are so constructed that when the table is extended, each slide lies in a side wall and in one of the supporting strips carried by the top. In this manner the top is supported in extended position without the necessity of additional legs.

The invention is fully disclosed in the following description and in the accompanying drawings in which:

Figure 1 is a side elevation of the table in extended position;

Figure 2 is a side elevation of the table collapsed;

Figure 3 is a transverse section on the line 3—3 of Figure 6;

Figure 4 is a longitudinal section at one side of the table, showing the device expanded;

Figure 5 is a similar view showing the device contracted;

Figure 6 is a longitudinal medial section showing the table extended;

Figure 7 is a bottom plan view;

Figure 8 is a section on the line 8—8 of Figure 4;

Figure 9 is a sectional perspective view of one of the slides; and,

Figure 10 is a fragmentary sectional view of several of the slats.

Reference will now be had to these views by means of like characters which are employed to designate corresponding parts throughout.

In Figure 1 the numeral 1 indicates a vertical member such as a wall to which the table proper is connected. The connection is made by means of a pair of brackets 2 to which is pivoted the table proper generally indicated by the numeral 3. The table comprises a pair of side members 4 which are doubly grooved as at 7 and 8, the grooves 7 serving to accommodate slides 9 described in detail below, while the grooves 8 serve for a purpose which is also pointed out in more detail hereinafter. Across the top is laid a slidable stiff top 6, from the forward end of which depends a cross piece 5.

To the rear or inner end of the stiff top is joined a series of contiguous slats 10 which are mutually articulated by means of several flexible fabric strips 11 secured to the bottom thereof. Two of these strips are located at the sides, while the third one lies intermediately, as illustrated in Figure 3. At the rear ends of the side walls 4 are mounted a pair of rollers 12 over which the ends of the slats may pass, as illustrated in Figure 4. The intermediate strip 11 is endless and passes around a roller 12' supported on the member 20, referred to in detail below.

Since both sides of the table are of identical construction, it will suffice to describe only one of these sides in detail. The slide 9 above referred to is a block of substantially square cross section and having four rectangular faces, as illustrated in Figure 9. This block is received in the groove 7 and is adapted to move freely therein. In the upper surface is cut a slot 13 while in the lower surface is formed a similar slot 14, the two slots overlapping each other at their inner ends, as shown in Figure 4. To the side member 4 is fixed a stop 15 received in the upper slot 13. It will be apparent that the stop 15 remains stationary with the side member to which it is attached, while the slide is movable relatively thereto.

To the cross piece 5 is secured a strip 16 which is movable therewith and which carries a stop 17 similar to the member 15.

The stop 17 is received in the lower slot 14, as shown clearly in Figure 4.

The inner face of each member 4 is engaged by one of the supporting strips 16. These strips are further formed with grooves 19 which receive the corresponding slide 9. As the stiff top 6 is pulled outwardly to the position shown in Figure 4, it is held in proper horizontal alinement because of the fact that the supporting strips secured to the member 5 straddle the slides 9. To the forward edges of the stationary side members 4 is secured another cross piece 20 which acts as the inner limit of movement of the strip 16.

The slats 10 being secured to the strips 11 are adapted to pass around the rollers 12 in the manner shown in the sectional views. The above mentioned grooves 8 communicate with the space back of the rollers so that they may receive the slats when the table is contracted to the position shown in Figures 1 and 5. The rollers are spaced at some distance from the support 1, and a partition 21 is supported between the brackets 2 at a space rearwardly of the rollers 12 to allow for accommodation of the slats. A backing strip 22 is placed along the support 1 and engages the inner faces of both brackets. By reason of this construction there remains a space 23 between the members 21 and 22 for a purpose presently to be described.

The stationary cross piece 20 has hinged thereto a strip 24 to the ends of which are connected legs 25. A spring 26 is connected to the strip 24 and to the inner edge of the strip 20 so that if the table is slightly lifted from the position shown in Figure 1, the legs will follow the direction of the arrow and engage the lower edges of the sides 3. When the table is lowered to the position shown in Figure 2, the lower ends of the legs will pass into the space 23.

When the table is to be expanded after

being brought to the position illustrated in Figure 1, the stiff top 6 or any part carried thereby is grasped in the hands and moved outwardly. The strips 16 being secured to the member 5 move with the top 6 until the stop 17 engages the forward end of the lower slot 14. Because of this engagement, continued outward movement of the stiff top will cause a similar and simultaneous movement of the slides 9. Finally the slides are stopped in their movement because of being limited by the stationary stops 15 secured to the stationary sides 4. The stiff top 6 and associated parts are guided and supported in their outward movement because of the engagement of the slides 9 in the grooves 19 of the strips 16.

While a specific embodiment of the invention has been illustrated and described, it is to be understood that various alterations in the details of construction may be made without departing from the spirit of the invention as indicated by the appended claim.

Having thus fully described the invention, what I claim as new and desire to protect by Letters Patent is:—

An extensible table comprising a pair of side members, a top slidably supported by said members, rollers supported between said members, a strip carried at one end of said top, a plurality of slats articulated to the remaining end of the top and adapted to pass over said roller, a slide carried by one of said side members and having a pair of grooves therein, a stop carried by said side member and receiveable in one of said grooves, a second strip secured to the first named strip and lying parallel to the top, and a stop carried by said last named strip, said stop being receiveable in the remaining groove of the slide.

In witness whereof I have hereunto set my hand.

NAPOLÉON GIARD.