

July 23, 1929.

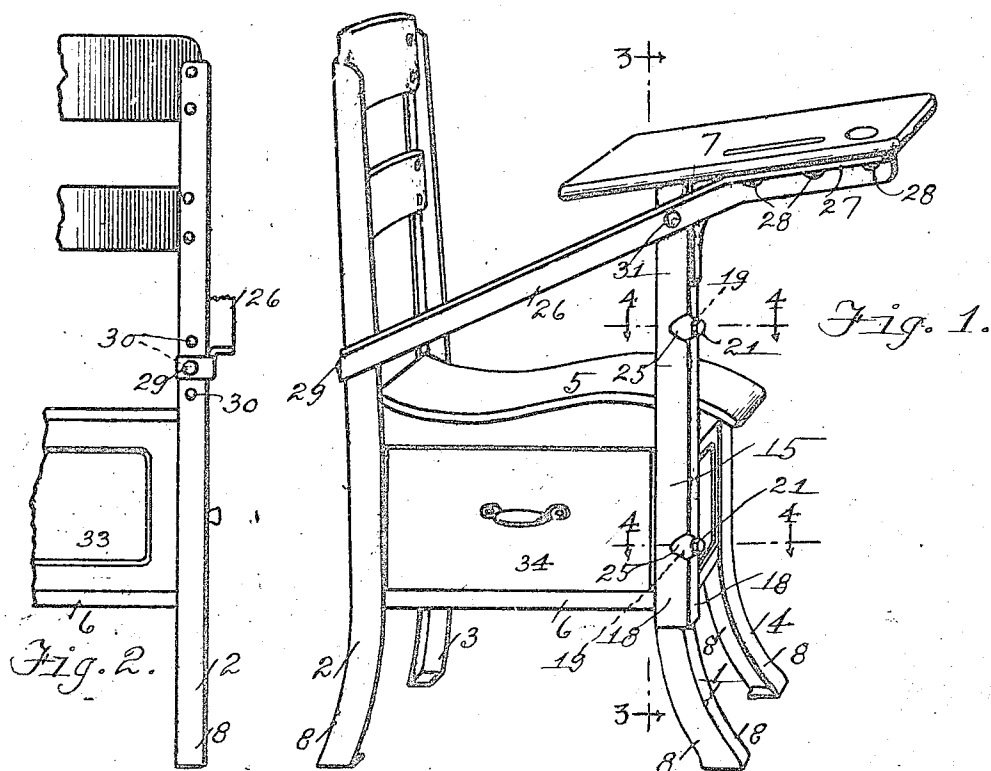
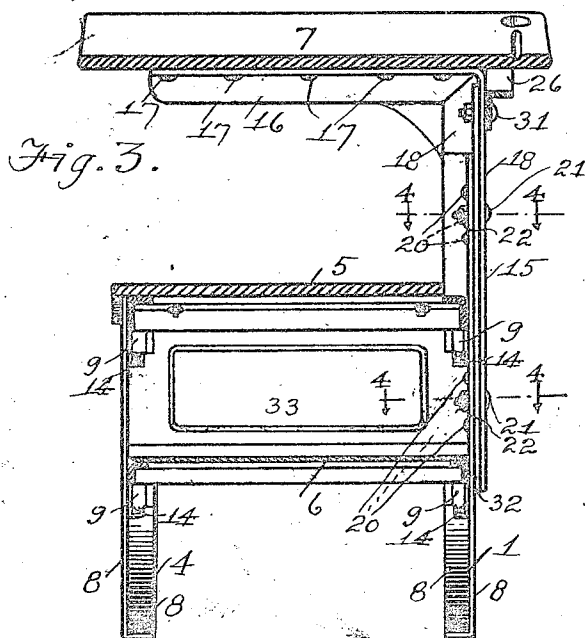
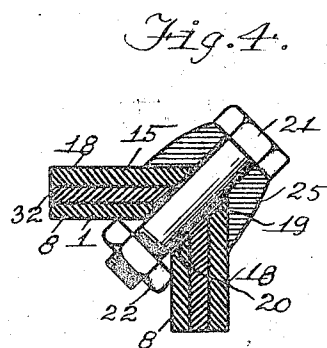
M. NUBERG

1,721,743

FURNITURE CONSTRUCTION

Filed Sept. 1, 1926

4 Sheets-Sheet 1



Witness:
A. E. [Signature]

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ATTORNEYS.

July 23, 1929.

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4 Sheets-Sheet 2

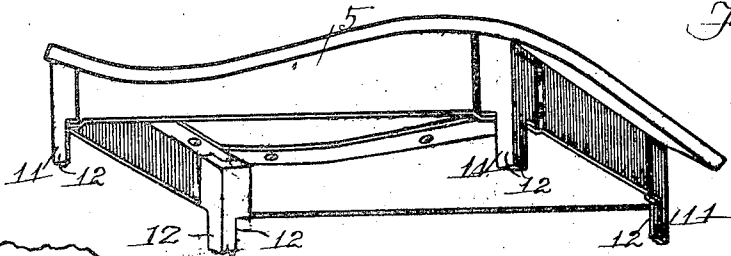


Fig. 5.

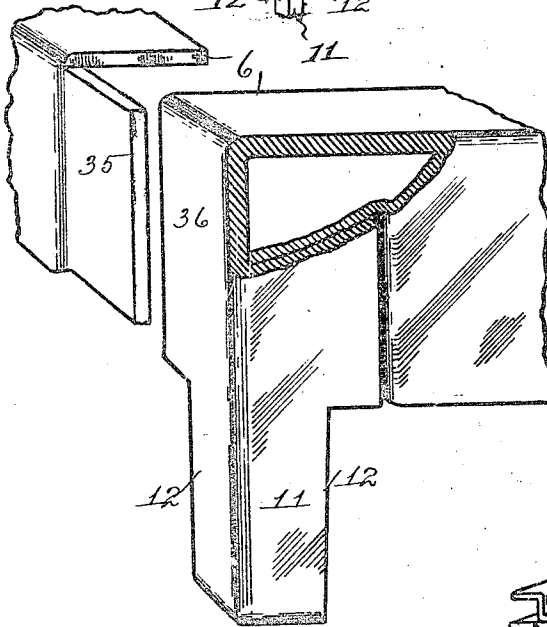


Fig. 7.

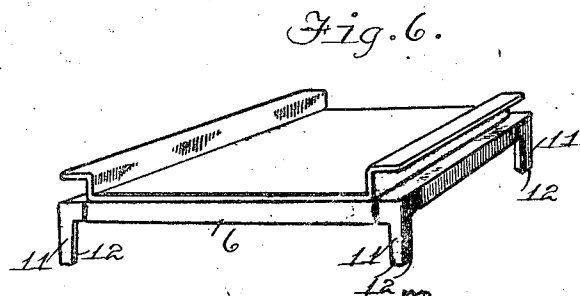


Fig. 6.

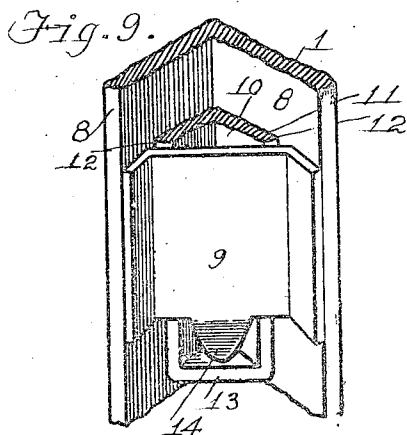


Fig. 9.

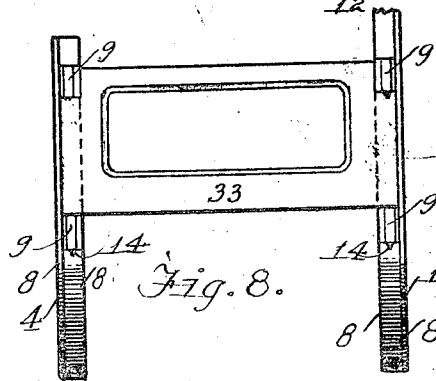


Fig. 8.

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FURNITURE CONSTRUCTION

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4 Sheets-Sheet 3

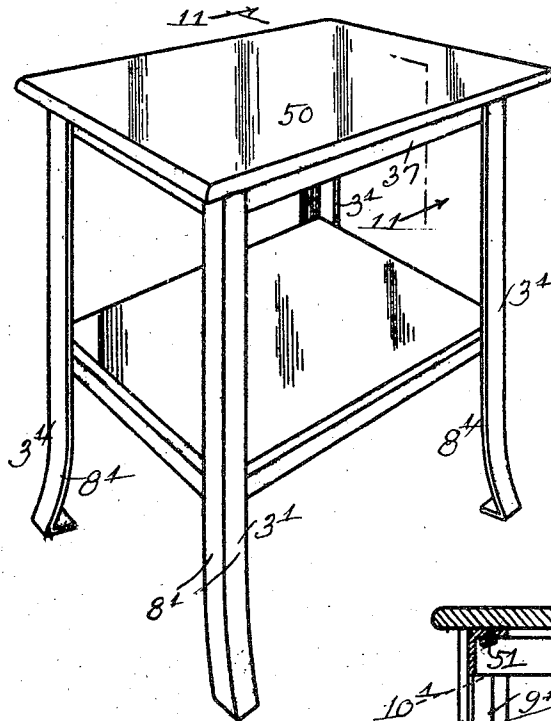


Fig. 10.

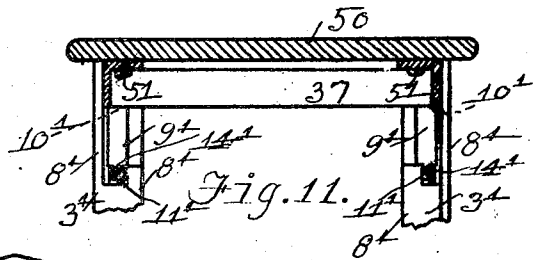


Fig. 11.

Fig. 13.

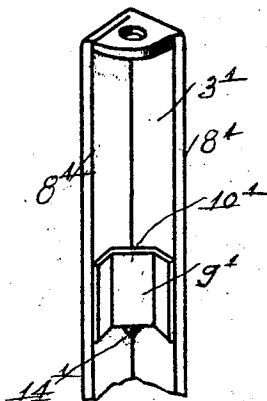
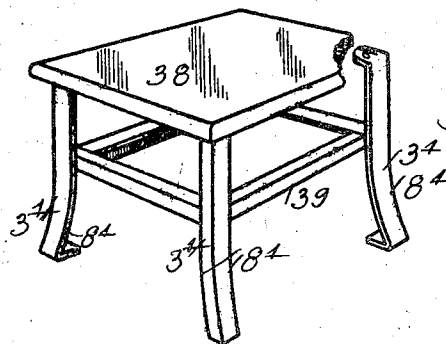


Fig. 12.

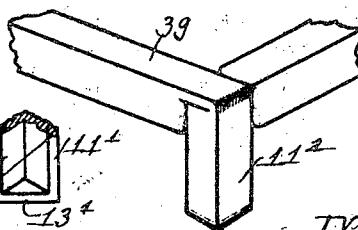


Fig. 14.

Fig. 15.



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UNITED STATES PATENT OFFICE.

MATTHYS NUBERG, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO AMERICAN SEATING COMPANY, OF GRAND RAPIDS, MICHIGAN, A CORPORATION OF NEW JERSEY.

FURNITURE CONSTRUCTION.

Application filed September 1, 1926. Serial No. 132,922.

The present invention relates to furniture construction and particularly to combined seats and desks; and its object is, generally, to provide a structure of that character improved in various respects hereinafter appearing; and, more particularly, to provide such a structure whose parts may be readily assembled and disassembled, thus providing an improved "knockdown" construction; and further, to provide improved connecting means for thus assembling such parts; and further, to provide constructional features in such a structure.

These objects are attained by, and the invention finds preferable embodiment in, the structure hereinafter particularly described in the body of this specification and illustrated by the accompanying drawings, in which:—

Figure 1 is a view in perspective of a combined seat and desk structure;

Figure 2 is a rear view of a portion thereof;

Figure 3 is a transverse sectional view of the same taken on a vertical plane corresponding to line 3—3 of Figure 1;

Figure 4 is a transverse sectional view of certain parts taken on a horizontal plane corresponding to either line 4—4 of Figures 1 and 3;

Figure 5 is a view in perspective of the seat member of the structure;

Figure 6 is a view in perspective of the shelf member of the structure;

Figure 7 is a view in perspective of a corner portion of said shelf member, illustrating separate parts of the same in position about to be united;

Figure 8 is an inner side view of one of the plates or panels enclosing the drawer space in the structure, and of the supporting legs on the opposite ends of said plate;

Figure 9 is an inner side view of a portion of one of the structure's supporting legs and a portion of an extension part of the seat member or of the shelf member;

Figure 10 is a view in perspective of a table;

Figure 11 is a vertical sectional view of the upper portion thereof taken on line 11—11 of Figure 10;

Figure 12 is a view in perspective of a stool;

Figure 13 is a view in perspective of the upper portion of one of the legs thereof;

Figure 14 is a view in perspective of a corner portion of the horizontal member connecting and bracing the legs of the stool;

Figure 15 is a view in perspective of the lower end of one of the downward extensions of said horizontal member;

Figure 16 is a view in perspective of a chair having an arm rest;

Figure 17 is a rear view of a portion thereof;

Figure 18 is a vertical sectional view of the same taken on line 18—18 of Figure 16; and Figure 19 is a horizontal sectional view of parts thereof taken on line 19—19 of Figure 16.

In the embodiment of the invention illustrated by Figures 1, 2, 3, 4, 5, 6, 7, 8 and 9 of the accompanying drawings, a combined seat and desk structure is shown having supporting legs 1, 2, 3, 4, a horizontal seat member 5, a horizontal shelf member 6 and a desk-top member 7—all being detachably connected, and the desk-top member being adjustable vertically. The legs 1, 2, 3, 4 have vertically-extending flanges 8 angularly-disposed in a horizontal plane, and bars 9 extending therebetween forming cross-sectionally triangular sockets 10 between said flanges and bars.

The seat member 5 and the shelf member 6, horizontally disposed, have at their corners downward extensions 11 having vertically-extending flanges 12 provided with bottoms 13 extending between said flanges, these extensions being slightly tapering toward their lower ends, and adapted to be inserted fittingly into said sockets, whereupon the bendable tongues 14 at the lower ends of the bars 9 are bent inwardly and over said bottoms to hold the extensions 11 in inserted position. A vertical support 15 has a horizontal flange 16 carrying the desk-top 7 which is detachably connected thereto as by screws 17, and is positioned above the seat 5. This support 15 has angularly-disposed vertically-extending flanges 18 contacting the flanges 8 respectively of the leg 1. This support has an opening 19 and said leg has a plurality of vertically spaced openings 20, extending therethrough at the angle between their flanges respectively, as particularly seen in Figure 4. Means, as the threaded bolt 21 having a nut 22, extends through opening 19 and any one of the openings 20 for detachably connecting the support 15 in desired vertical adjustment on said leg 1. Owing to the angular direction of this

bolt 21, both flanges 18 of the support are tightly clamped by the bolt on both flanges 8 of the leg 1, whereby rigid supporting of the desk-top is effected. A bearing block 25 for the head of the bolt 21 is provided, having inner faces contacting the flanges 18 of the support as shown in Figure 4. Desirably a pair of these bolts 21 are provided as seen in Figures 1 and 3, to effect increased rigidity in the support.

A supporting bar 26 is provided to brace or additionally support the desk-top which is detachably connected to this bar's flange 27 as by screws 28. The rear end of this bar is detachably connected as by a threaded bolt 29 to one of the rear supporting legs 2, said bolt passing through an opening in this bar and one of the vertically spaced openings 30 in said leg 2; and this bar 26 is pivotally connected at 31 to the upper end of the support 15, so that, in the disassembled condition of the parts, this bar may be turned to approximately parallel relation with the support, thus economizing storing space. A reinforcing cross-sectionally angular strip 32 is secured as by spot welding to the leg 1 and is essentially a part thereof.

As indicated by the drawings this structure may be almost entirely constructed of "angle iron" bars, thus affording great rigidity. It will be seen that the parts of the structure may be readily assembled and disassembled. The space between the seat member 5 and the shelf member 6 may be enclosed on three sides by plates or panels 33, and a drawer 34 may be slidable in said space. Certain metallic parts may be so formed, as indicated in the case of the parts 35, 36 (Fig. 7) of the shelf member, as to present an unbroken flat surface when joined, as by spot-welding or the like.

In the other views various modified constructions of the invention are illustrated, the parts thereof being identified on the drawings by the same reference numerals used to identify like parts in Figures 1-9, with a prime mark added.

In Figures 10 and 11 is illustrated a table having an upper horizontal member 37 provided with the downward extensions 11' seating in sockets 10' in the legs 3' and secured as by screws 51 to the table top 50; in Figure 12 is shown a stool having legs 3' to whose upper ends the seat 38 is fastened as by screws, a horizontal member—the rectangular frame 39—having downward extensions 11' like those shown in Figure 11 and seating in the sockets 10' of the legs; and in Figures 16, 17 and 18 a chair having legs 1', 2', 3', 4', a lower horizontal member—the seat 5'—having downward extensions 11', and an upper horizontal member—the arm rest 40—is

shown. A shelf member 6' is also shown in these views. The downward extensions 11' of the seat member 5' and of the shelf member 6' seat in the sockets 10' in the same manner as like extensions in the other views. The vertical support 15' is secured in adjustable vertical position on the leg 1' by the bolts 21' in the same manner as the support 15 is secured in other views, and has a bar 41 carrying the upper horizontal member—the arm rest or table top 40—the rear end of said bar being held in adjusted vertical position by the bolt 29' passing through one of the holes 30' in the leg 2'.

The angle-iron bars in these structures are desirably formed by bending metal strips into angle-iron shape.

The invention being intended to be pointed out in the claims, is not to be limited to or by details of construction of the particular embodiment thereof illustrated by the drawings or hereinbefore described.

What is claimed is:

1. In a structure of the character described: supporting legs having angularly-disposed vertically-extending flanges and bars extending therebetween provided with bendable tongues; a horizontal member comprising extensions having angularly-disposed vertically-extending flanges provided with bottoms extending therebetween, said extensions being adapted to be inserted between the flanges and bars of the legs and said tongues bent over said bottoms to hold said extensions in inserted position.

2. In a structure of the character described: a supporting part comprising a leg having angularly-disposed vertically-extending flanges and a transverse member extending therebetween; a supported part having a vertically-extending member inserted between the flanges and said transverse member in the assembled position of said parts, one of said members being bendable into holding engagement with the other of said members in said position.

3. In a structure of the character described: a supporting part comprising a leg having angularly-disposed vertically-extending flanges and a transverse member extending therebetween; a supported part having a vertically-extending member inserted fittingly between the flanges and said transverse member in the assembled position of said parts, one of said members being bendable into holding engagement with the other of said members in said position.

In testimony whereof I have hereunto set my hand at Grand Rapids, Michigan, this 27th day of August, 1926.

MATTHYS NUBERG.