May 18, 1926. 1,584,826

C. R. UHL

ARTICLE OF FURNITURE

Filed April 30, 1923 2 Sheets-Sheet 1

Fig 1

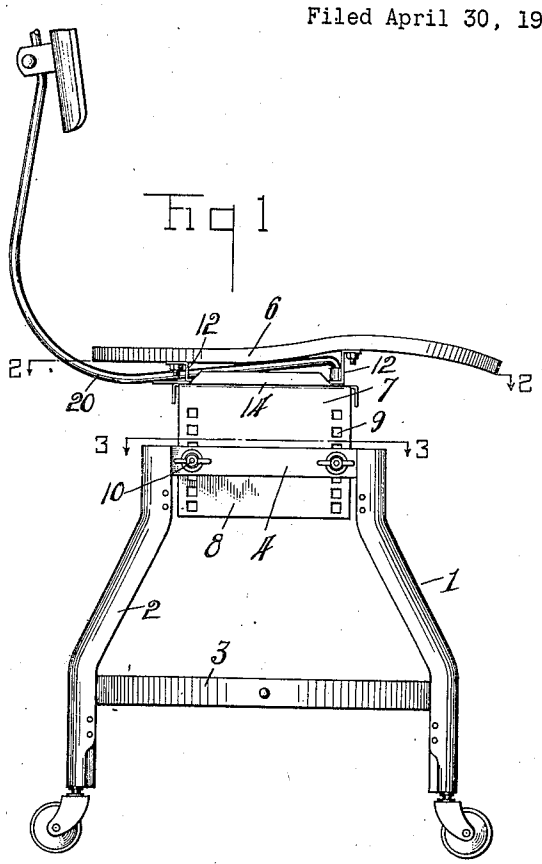


Fig 3

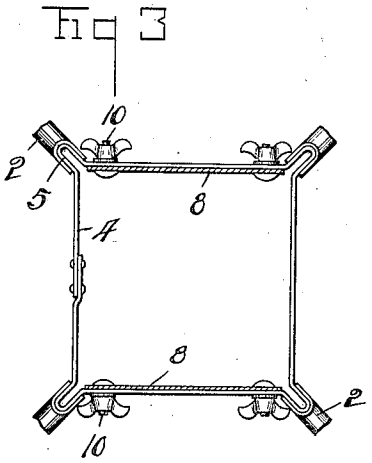
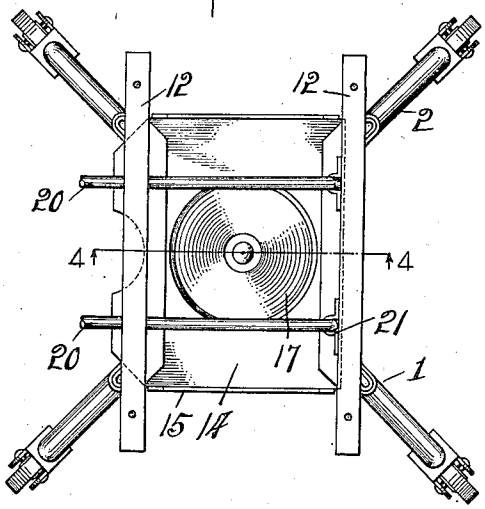


Fig 2



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Fig 4

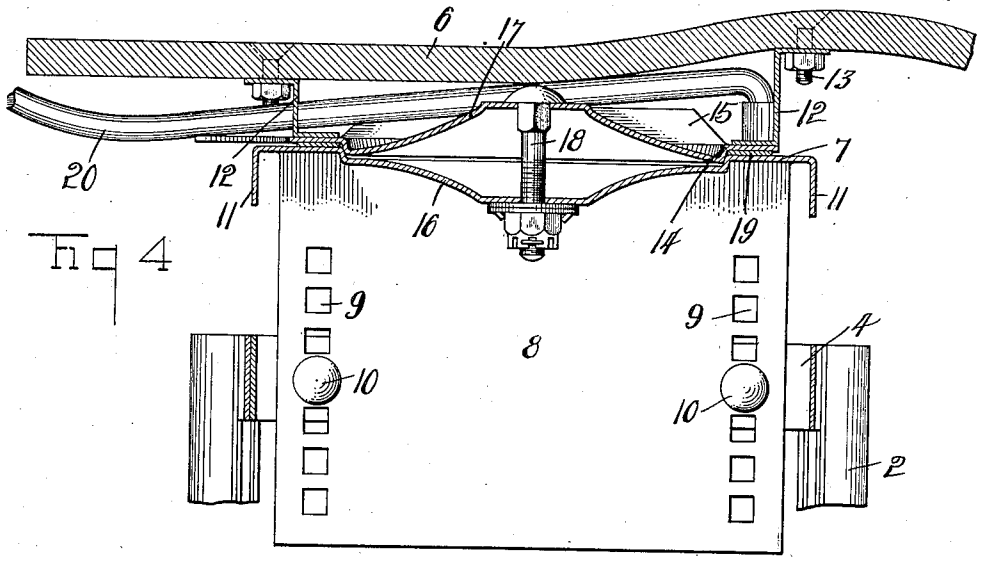
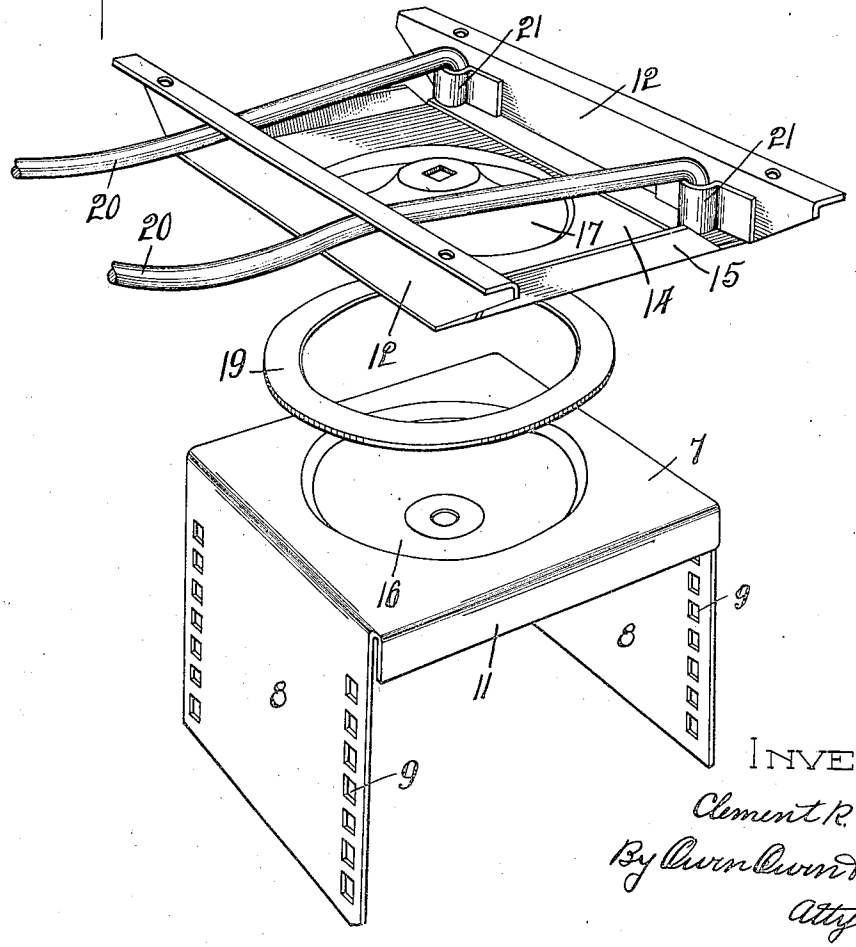


Fig 5



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UNITED STATES PATENT OFFICE.

CLEMENT R. UHL, OF TOLEDO, OHIO, ASSIGNOR TO THE TOLEDO METAL FURNITURE COMPANY, OF TOLEDO, OHIO, A CORPORATION OF OHIO.

ARTICLE OF FURNITURE.

Application filed April 30, 1923. Serial No. 635,429.

This invention relates to articles of furniture and particularly to chairs, stools, tables, benches, pedestals and other articles where height adjustment or swivel mount is desired.

An object of the invention is the provision in articles of the class described of a simple and efficient adjustable support for the top member of the article which enables it to be easily raised or lowered or tilted forward or back as desired, such adjustment being permanently maintained until again changed by manual manipulation.

Another object of the invention is the provision of a simple, economical and efficient swivel mount for the article, which mount is light, strong and durable in its construction, has a side bearing surface, is long lived and is easy to operate.

The invention is fully described in the following specification, and while in its broader aspect it is capable of embodiment in numerous forms, a preferred embodiment thereof is illustrated in the accompanying drawings, in which,—

Figure 1 is a side elevation of a chair embodying the invention. Fig. 2 is a sectional view substantially on the line 2—2 in Fig. 1, with the seat removed. Fig. 3 is a section on the line 3—3 in Fig. 1. Fig. 4 is an enlarged vertical fragmentary section on the line 4—4 in Fig. 2, with the seat in position, and Fig. 5 is a perspective view of the coacting swivel parts in separated relation.

Referring to the drawings, 1 designates a standard or base in the present instance, of all metal construction and comprising four legs or uprights 2 connected near their lower ends by a reinforcing or bracing member 3 and at their upper ends by a bracing member 4 of rectangular form. The member 4, in the present instance, is of strap metal and is provided with an outwardly extending diagonally disposed loop 5 at each corner for fitting into the channel of the respective leg 2.

The top member 6 of the article of furniture which, in the present instance, comprises a seat is mounted on a base frame 7 of inverted U-form with its legs or side members 8 of considerable width and extending down preferably within the top member 4 of the standard 1 in side abutment with the respective opposite sides of said member.

Each leg or side portion 8 of the base frame 7 is provided with two series of vertically spaced apertures 9, and a bolt 10 extends through the adjacent side of the member 4 for each set of apertures 9 and through a desired one of such apertures to secure the base frame 7 in desired adjusted relation to the standard 1. It is evident that the base frame 7 may be raised or lowered or tilted forward or back with respect to the standard 1 by a proper locating of the bolts with respect to the frame 7. The bolts 10 are preferably provided with wing nuts to facilitate adjustment. For the purpose of cheapness and durability the frame 7 is stamped or formed from sheet metal and its top portion is strengthened by the provision of downwardly turned flanges 11 at its side edges.

The seat 6 has two cross-bars 12, in the present instance of double flanged or Z-form, secured to its under side by bolts 13 projecting through one of the flanges of each bar, or in any other suitable manner, and the lower flanges, which are inturned toward each other, are rigidly secured to the respective forward and rear edge portions of a top plate 14, the manner of securing being preferably by electric welding. The plate 14 is preferably of sheet metal and strengthened by having its opposite side edges formed with upwardly turned flanges 15 and is adapted to seat on the top of the base frame 7, in the present instance, for swivel turning movements thereon.

To provide a suitable strong and durable swivel connection between the frame parts 7 and 14 said parts are respectively centrally provided with opposed outwardly projecting conical portions 16 and 17, the edge portion of the former being countersunk with respect to the top surface of the member 7, while the outer edge portion of the portion 17 is downwardly projected to adapt it to project into and have a rotary bearing within the countersunk edge portion of the portion 16, as shown in Fig. 4. The provision of this bearing prevents a lateral displacement of one of the members 7, 14 with respect to the other. A pivot bolt 18 projects centrally through the conical portions 16 and 17 to retain the upper and lower frame members 7 and 14 in assembled relation and permit free turning or swivel movements thereof. The purpose of providing

the members 7 and 14 with the opposed conical portions 16 and 17 is to enable the parts to be made from light material and at the same time be of maximum strength. The conical portions 16 and 17 render the parts through which the swivel bolt 18 passes of very rigid construction without adding to the weight of the same.

It is evident that with this form of swivel construction a broad bearing is provided to strengthen the swivel against lateral strains, and to facilitate the swiveling action a fiber washer 19 is interposed between the bearing surfaces of the two members 7 and 14 without the conical portions thereof.

The seat back frame bars 20 may project under the seat 6 through apertures in the rear cross-bar 12 and have their forward ends angled and projected into socket members 21 secured to the inner side of the front cross-bar 12, thus providing a rigid means for securing the back bars 20 to the seat.

It is evident that I have provided a simple, strong and durable means for adjustably mounting a seat or top member on a supporting standard and that I have also provided a simple, durable swivel mount for the seat or top member, the parts being formed of lightweight material and strengthened by reason of the particular forms of the same.

I wish it understood that my invention is not limited to any specific construction, arrangement or form of the parts, as it is capable of numerous modifications and changes without departing from the spirit of the claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is,—

1. In an article of the class described, a base member and a top member each having broad coacting surface portions provided with coaxial conical portions, and a swivel member coaxially connecting the conical portions of said meeting surfaces.

2. In an article of the class described, a standard having a top bearing surface portion, a top having a broad bottom bearing surface portion for seating on the bearing surface portion of the standard for turning movements thereon, said coacting bearing portions having opposed conical reinforcing portions, and a pivot member connecting the said bearing portions in coaxial relation to the conical offset portions thereof.

3. In an article of the class described, a standard having a top bearing surface portion, a top having a broad bottom bearing surface portion for seating on the bearing surface portion of the standard for turning movements thereon, said coacting bearing portions having opposed conical reinforcing portions, a pivot member connecting the said bearing portions in coaxial relation to the conical offset portions thereof, and a fibrous washer between the bearing surfaces of the pedestal and top member.

4. In an article of the class described, a pedestal, an inverted sheet metal member carried for vertical and tilting adjustment by the upper portion of the pedestal, means adjustably connecting the pedestal and said member, a top member having a broad sheet metal bottom portion for seating on the top of said first member, said coacting sheet metal bearing portions having registering oppositely projecting conical parts, and pivot means extending through said conical parts axially thereof and connecting the sheet metal member and the top member for swivel movements.

5. In an article of the class described, a standard having a top bearing surface portion, a top having a broad bottom bearing surface portion for seating on the bearing surface portion of the standard for turning movements thereon, said coacting portions having opposed conical reinforcing portions with the abutting edges of said reenforcing portions in telescoping engagement, and a pivot member connecting said bearing portions in coaxial relation to the conical offset portions thereof.

In testimony whereof I have hereunto signed my name to this specification.

CLEMENT R. UHL.