March 26, 1940. W. E. HARDY 2,194,750

CHAIR, TABLE, ETC

Filed Aug. 31, 1938

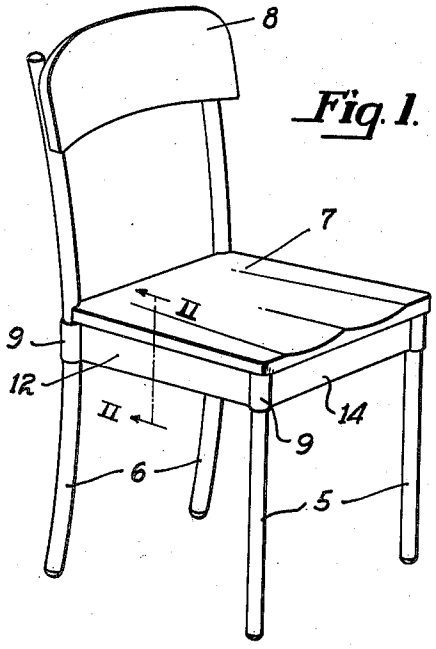


Fig. 1.

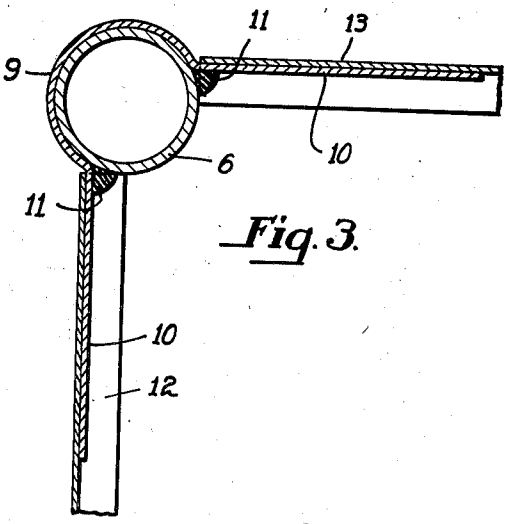


Fig. 3.

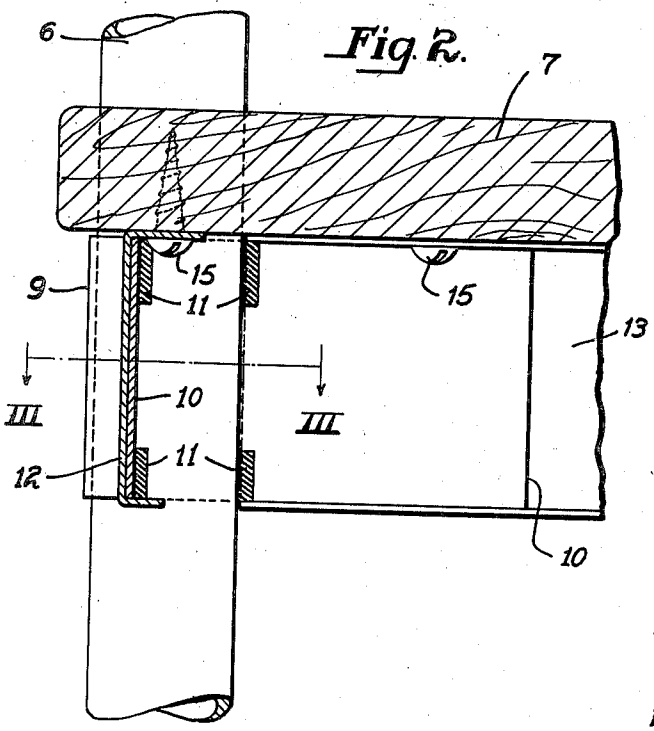


Fig. 2.

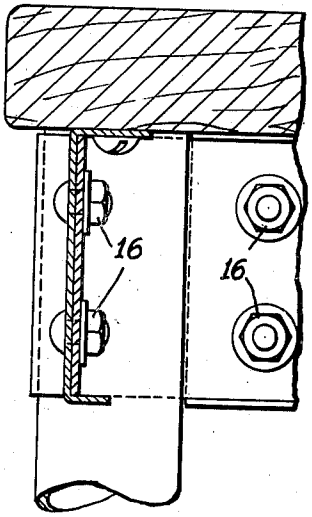


Fig. 4.

INVENTOR
Wilbert Eugene Hardy
BY
Archworth Martin,
ATTORNEY.

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CHAIR, TABLE, ETC.

Wilbert Eugene Hardy, Crafton, Pa.

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4 Claims. (Cl. 311—110)

My invention relates to improvements in chairs, settees, tables and the like, and has for one of its objects the provision of seating structures and tables of such form that they can be constructed economically and which nevertheless are of great strength.

Another object of my invention is to provide a structural arrangement whereby various parts suitable for making an article of furniture of a given size can be utilized also in making furniture of other dimensions, without alteration of said parts.

In the accompanying drawing, Figure 1 is a perspective view of a chair constructed according to my invention; Fig. 2 is an enlarged sectional view taken on the line II—II of Fig. 1; Fig. 3 is a view taken on the line III—III of Fig. 2; and Fig. 4 shows a modification of the structure of Fig. 3.

Referring first to Figs. 1 to 3, the chair comprises front legs 5, rear legs 6, a seat board 7 and a back rest 8, connected in unitary relation as hereinafter described.

The legs 5 and 6 may be metal tubes or of other suitable material. The back rest 8 may be simply a board, or an upholstered member, secured by screws or otherwise, to the upper extensions of the rear legs 6. A sheet metal yoke 9 having wing portions 10 is welded at 11 to each of the legs 5 and 6. A tie plate 12 connects each front leg to a rear leg; a tie plate 13 connects the rear legs, and a tie plate 14 connects the front legs.

The tie plates are preferably of channel form so that they can be made of sheet metal and still have the required strength. The wings 10 of the yokes 9 fit snugly between the flanges of the various tie plates, as shown more clearly in Figs. 2 and 3, and are of such length that the wings and the tie plates cooperate to provide stiffness and strength at the points where the greatest bending strains occur during use of the chair. The wings 10 are spot-welded to the tie plates.

The seat board 7 may be of wood or other material, and is connected to the upper flanges of the various tie plates by screws 15.

The legs with their attached yokes 9 can be employed in making seat structures of various sizes, simply by employing tie plates 12, 13 and 14 of desired lengths, with seat boards and back rests of the desired dimensions.

As shown in Fig. 4, the tie plates are connected to the wings 10 by means of bolts 16, instead of welding them together.

In the making of stools, tables and similar articles, it will be understood that the same general arrangement of legs and tie plates will be employed as in the making of a chair, with the exception that the rear legs will terminate at the lowermost plane of the top board which will be substituted for the seat board 7.

I claim as my invention:

1. An article of furniture comprising legs, wing elements connected to said legs, tie members connecting a wing element of each leg to the wing element of another leg, and a horizontally-extending top member connected to the tie members, the tie members being of channel form with their webs in vertical planes, and the wing elements having flatwise engagement with the said webs and fitting within the channels, with their edges in engagement with the flanges of the said channels.

2. An article of furniture comprising legs, a sheet metal strap connected to each leg and each having a wing portion extending toward another leg, sheet-metal tie plates of channel form connecting the wing portions of adjacent legs, the tie plates having their webs in vertical planes, and the said wing portions having flatwise engagement with the said webs and fitting within the channels, with their edges in engagement with the flanges of the said channels, and a horizontally-extending top member carried by the frame structure thus formed.

3. An article of furniture comprising legs, a yoke partially embracing each leg and having a pair of wing portions extending at right angles to one another, toward two adjacent legs, and straight sheet metal tie plates of channel form, each connecting a wing portion of one leg to a wing portion of an adjacent leg, the webs of the tie plates extending in vertical planes, and the wing portions fitting snugly within the said channels and having flatwise engagement with the said webs, in vertical planes.

4. An article of furniture comprising legs, a yoke partially embracing each leg and having a pair of wing portions extending at right angles to one another, toward two adjacent legs, straight sheet metal tie plates of channel form, each connecting a wing portion of one leg to a wing portion of an adjacent leg, the webs of the tie plates extending in vertical planes, and the wing portions fitting snugly within the said channels, and having flatwise engagement with the said webs, in vertical planes, and a horizontally-extending top member supported upon and secured to the upper flanges of the tie plates.

WILBERT EUGENE HARDY.