May 7, 1940. J. V. BOOGAARD ET AL 2,199,689

CHAIR END STANDARD

Filed Aug. 14, 1937

Fig. 1

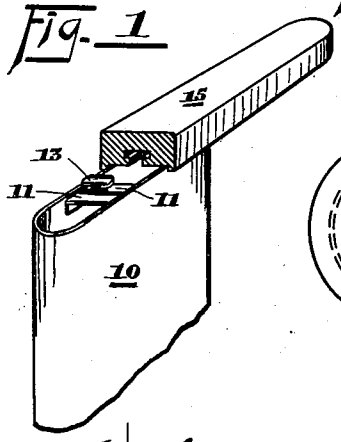


Fig. 8

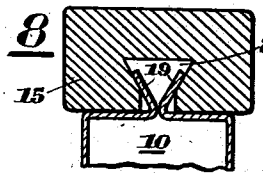
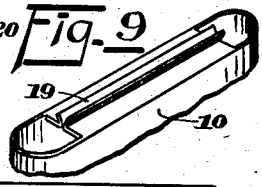


Fig. 9



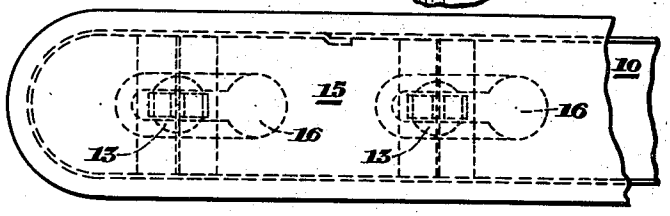


Fig. 2

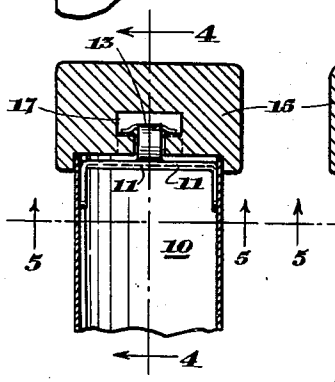


Fig. 3

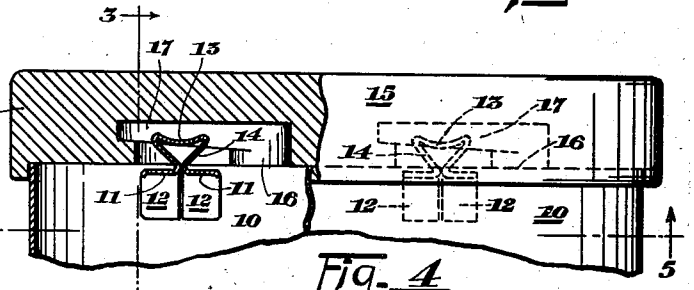


Fig. 4

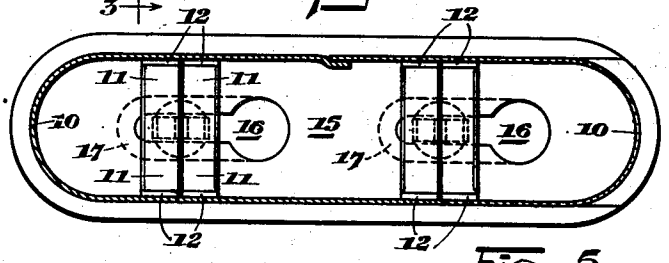


Fig. 5

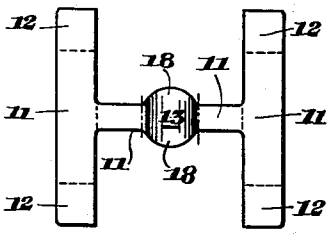


Fig. 7

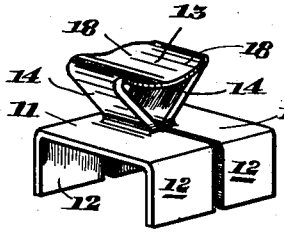


Fig. 6

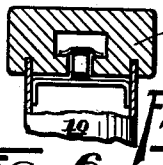


Fig. 10

Witness:
Heil. Chapel

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UNITED STATES PATENT OFFICE

2,199,689

CHAIR END STANDARD

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Application August 14, 1937, Serial No. 159,081

5 Claims. (Cl. 155—198)

The present invention relates to chair end standards and more particularly to end standards for chairs of the opera type having novel means for securing an arm rest to the upper end thereof.

The primary objects of the instant invention are to provide an end standard and its arm rest of the general character above indicated which is attractive in appearance; to provide such an end standard whose arm rest may be readily and conveniently secured thereto; to provide such an end standard formed from sheet metal having an arm rest of either wood or metal secured in a novel manner; and, to provide such an end standard and its arm rest which is economical in manufacture.

Illustrative embodiments of the invention are shown in the accompanying drawing, wherein:

Figure 1 is a fragmentary perspective view of the end standard and its arm shown in section prior to securing it to the upper end of the end standard;

Figure 2 is an enlarged fragmentary top plan view of the arm rest in its secured position to the upper end of the end standard;

Figure 3 is a sectional view of the end standard and its secured arm rest on line 3—3 of Figure 4;

Figure 4 is a sectional view thereof on line 4—4 of Figure 3;

Figure 5 is a sectional view on lines 5—5 of Figures 3 and 4;

Figure 6 is an enlarged perspective view of one form of clip used in securing the arm rest to the end standard;

Figure 7 is a top plan view of the blank from which the clip shown in Figure 6 is formed;

Figure 8 is a sectional view showing a modified form of an end standard and the manner in which its arm rest is secured thereto;

Figure 9 is a perspective view of the upper end of the modified form of end standard shown in Figure 8; and

Figure 10 is a sectional view showing another modified form of an end standard and the manner in which its arm rest is secured thereto.

Referring then to the drawing wherein like parts of the end standard and its arm rest are designated by the same numerals in the several views, the end standard 10 for chairs of the opera type shown in Figures 1 to 7 inclusive, is like that shown in our co-pending application, Serial No. 159,080, filed Aug. 14, 1937, and is a hollow column preferably fabricated from sheet metal.

Clips likewise of stamped sheet metal and as best shown in Figures 6 and 7 have a double base portion 11, 11 provided with oppositely disposed integrally formed depending flanges 12 and a concavo-convex circular head 13 is supported above the double base of the clip by integrally formed upwardly-outwardly-angularly disposed arms 14. A pair of these clips are disposed in spaced relation to each other as best shown in Figures 2, 4 and 5, the oppositely disposed depending flanges of each clip being secured to an inner wall of the spaced walls of the hollow column 10 adjacent the upper end of the column and with the head 13 of each clip being disposed upwardly of the upper end of the end standard.

The arm rest 15 shown in Figures 1 to 7 inclusive is provided with a pair of spaced bores 16 in its lower length adapted to register with the heads 13 of the spacedly secured clips and a T-shaped recess 17 is offset from each bore as best shown in Figures 3 and 4.

Thus it is seen that the arm rest 15 may be placed upon the upper end of the end standard column with its pair of spaced bores 16 in registration with the heads 13 of the pair of spacedly secured clips and a sliding movement of the arm rest relative to the end standard from its position shown in Figure 1 to its position shown in Figure 4 causes the outer portions 18 of the concavo-convex head 13 to frictionally engage the floor surfaces of the T-shaped offset recess 17 which floor is preferably tapered upwardly as best shown in Figure 4.

In the modified construction shown in Figures 8 and 9, the upper side walls of the hollow columnar end standard 10 are each flanged inwardly toward each other and thence upwardly-outwardly-angularly to form an integral spring clip 19. The arm rest 15 in this modified construction is provided with a triangular slot 20 adapted to receive the clip 19 during the sliding movement of the arm rest relative to the standard to which it is thus frictionally secured.

In the modified construction shown in Figure 10, the arm rest 15 is provided with portions 21 extending within the end standard column, so that the walls of the column are rendered non-compressible toward each other at the top of the column.

It will thus be seen that the end standard and its arm rest are attractive in appearance, that they may be readily and conveniently assembled and that they are economical in manufacture.

While but several specific embodiments of the invention have been herein shown and described, it will be understood that certain details of the

constructions shown may be altered or omitted without departing from the spirit of this invention as the same is defined by the following claims.

We claim:

1. In an end standard and arm rest therefor, said end standard comprising a hollow column provided with a clip having depending flanges secured to the opposite inner walls respectively of said column and a head projecting upwardly of the upper end of the standard and said arm rest having a longitudinal slot along its lower length adapted to receive the upwardly projecting head of said clip during a sliding movement of the arm rest relative to the end standard for securing the arm rest thereto.

2. In an end standard and arm rest therefor, said end standard comprising a hollow column provided with a clip having depending flanges secured to the opposite inner walls respectively of said column and a head projecting upwardly of the upper end of the standard and said arm rest having a bore and a recess offset therefrom, the upwardly projecting head of said clip being adapted for insertion within said bore and to be moved into said offset recess upon a sliding movement of said arm rest relative to the end standard.

3. In an end standard and arm rest therefor, said end standard comprising a hollow column, a clip having depending flanges secured to the opposite inner walls respectively of the hollow column adjacent the upper end thereof and having a head projecting upwardly of its upper end and provided with laterally disposed portions, said arm rest having a bore and cross-sectionally T-shaped recess offset therefrom, said head being adapted for insertion within said bore and to be moved into said offset recess upon a sliding movement of said arm rest relative to the end standard.

4. In an end standard and arm rest therefor, said end standard comprising a hollow column, a clip having depending flanges secured to the opposite inner walls respectively of the hollow column adjacent the upper end thereof and having a head projecting upwardly of its upper end and provided with laterally disposed springable portions, said arm rest having a bore and cross-sectionally T-shaped recess offset therefrom, said head being adapted for insertion within said bore and to be frictionally moved into said offset recess upon a sliding movement of said arm rest relative to the end standard.

5. In an end standard and arm rest therefor, said end standard comprising a hollow column, a clip having depending flanges secured to the opposite inner walls respectively of the hollow column adjacent the upper end thereof and having a head projecting upwardly of its upper end and provided with laterally disposed springable portions, said arm rest having a bore and a cross-sectionally T-shaped recess offset therefrom the shoulders of which extend upwardly away from said bore, said head being adapted for insertion within said bore and to be moved into said offset recess and into frictionally gripping contact with the shoulders thereof upon a sliding movement of said arm rest relative to the end standard for tensionally securing the arm rest to said standard.

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