May 26, 1942. E. J. VALLEN 2,284,310

CURTAIN TRACK SUPPORT

Filed Oct. 26, 1939

FIG. 1

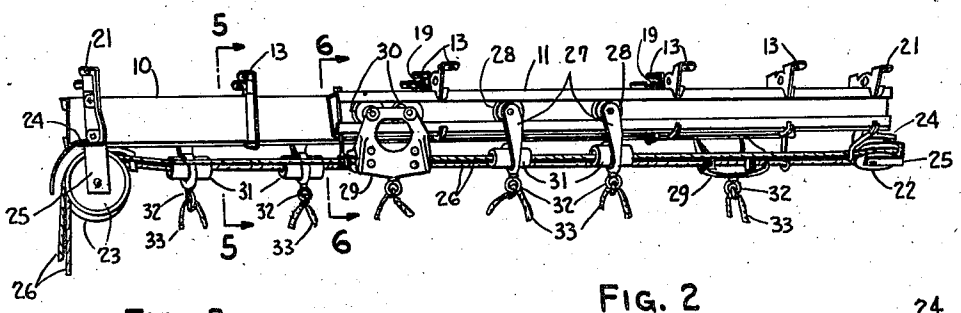


FIG. 2

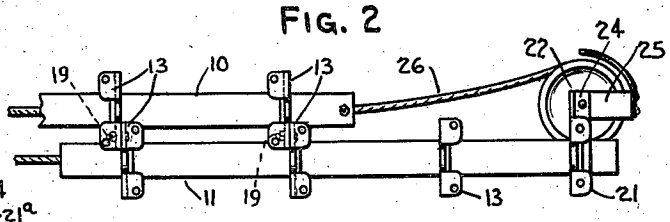
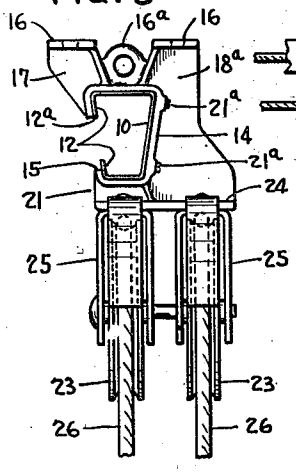


FIG. 3



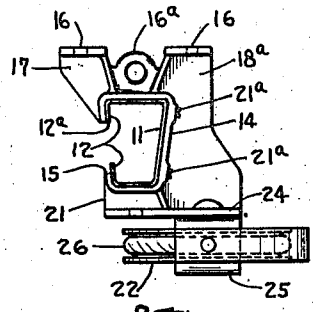


FIG. 4

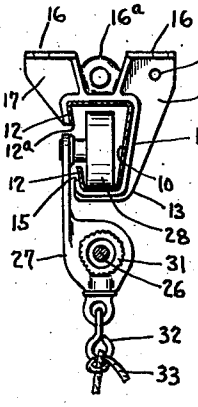


FIG. 5

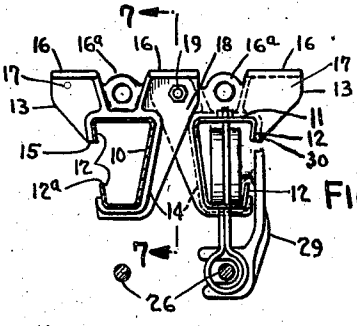


FIG. 6

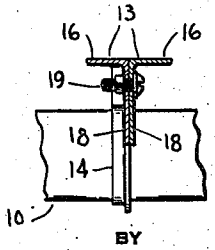


FIG. 7

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Patented May 26, 1942

2,284,310

UNITED STATES PATENT OFFICE

2,284,310

CURTAIN TRACK SUPPORT

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Application October 26, 1939, Serial No. 301,423

2 Claims. (Cl. 156—22)

This invention relates to curtain tracks for use in theatres, auditoriums, or the like.

An object of the invention is to provide a curtain track of the type formed with oppositely disposed sections in overlapping relation, having associated supporting brackets so formed that they may be interchangeably mounted on either track section or interconnected to secure the overlapping portions of the sections together, the track sections being also relatively adjustable on the brackets for accurately centering same over a stage opening.

Another object of the invention is to provide interchangeable end brackets for a curtain track of the type referred to in the preceding paragraph, these end brackets being interchangeable to support operating sheaves in various positions as desired.

Another object of the invention is to provide sectional track equipment of the character described which is adapted to be assembled quickly with a minimum of effort.

These and other objects of the invention will be manifest from the following brief description and the accompanying drawing.

Of the accompanying drawing:

Figure 1 is a perspective view of a curtain track embodying the invention.

Figure 2 is a partial plan view thereof, as viewed at the right of Figure 1.

Figure 3 is an end view of the track, as viewed from the left of Figure 1.

Figure 4 is an end view, as viewed from the right of Figure 1.

Figure 5 is a cross-section taken on line 5—5 of Figure 1.

Figure 6 is a cross-section taken on line 6—6 of Figure 1.

Figure 7 is a cross-section taken on line 7—7 of Figure 6.

Referring to the drawing the numerals 10 and 11 designate generally a pair of channel-shaped track sections arranged back to back, with the ends held together in overlapping relation at the center of the track, substantially as shown in Figures 1, 2 and 6. The channel sections are identical in cross-section, being tapered toward the bottom thereof, and having inwardly turned upper and lower flanges 12, 12 on the open sides of the respective sections.

For supporting the curtain track in position over a stage opening, identical intermediate brackets 13, 13 may be provided, these having channel-shaped body portions 14 for slidably embracing channel sections 10 and 11, with an open space 15 provided to coincide with the longitudinal openings 12a formed between the flanges 12 of the respective track sections. Extending outwardly in opposite directions from the top of body 14 may be a pair of similar flanges 16, 16 adapted to be suitably secured to an overhead structure (not shown). Webs 17 and 18 may connect between flanges 16 and the body 14 to reinforce the bracket, but the web 18 connecting the back wall of the body is formed to provide a flat outer surface at one side of the bracket. It will be readily seen that the brackets may be shiftably and interchangeably mounted on either of the channel sections. An apertured web 16a may connect between the flanges 16, to provide effective means for optionally suspending the brackets on cables (not shown) depending from convenient overhead supports.

For connecting the track sections 10 and 11 together at the overlapping portions thereof, the oppositely disposed brackets on the respective sections may be arranged, with the webs 18 secured together, as by means of a bolt 19 received through cooperating openings 20, 20 in the webs (see Figures 2, 6 and 7).

At opposite ends of the sectional track may be brackets 21, 21 which are also utilized for supporting U-shaped brackets 25 of curtain-operating sheaves 22 and 23, 23 in various arrangements as required. The brackets 21 are substantially identical to brackets 14, like parts being given like numerals, the essential difference being the provision of a bottom flange 24 extending rearwardly of the body 14, and reinforced by a web 18a. This construction of end brackets 21 is such that they may be interchangeably secured on the outer ends of either track section, as by means of set screws 21a. In any case the flanges 24 may be utilized to secure a U-shaped bracket 25 at one end of the track, to support sheave 22 in a horizontal position, substantially as shown in Figure 4, or two of such brackets 25 may be secured to a flange 24 at the opposite end of the track with the sheaves 23, 23 thereof in vertical alignment with the vertical centers of tracks 10 and 11, as shown in Figure 3.

Guided around sheave 22, along both track sections 10 and 11, and over sheaves 23, 23 may be the usual operating cable 26, which extends downwardly to operating means (not shown) at one side of the stage opening. Along the open sides of track sections 10 and 11 are floating curtain carriers 27, 27, having rollers 28, 28 for rolling engagement in the tracks. Fixed in the

lower ends of carriers 27 are rubber sleeves 31, 31 through which cable 26 is slidably received. Master carriers 29, 29, each having pairs of rollers 30, 30 for rolling engagement along the tracks, are suitably secured to the cable 26, instead of floating thereon in the manner of carriers 27. Curtains (not shown) may be suspended from the carriers 27 and 29 by being attached to eyelets 32 on the lower ends thereof by means of trim cords 33. This carrier and cable operating equipment is of known type, in which pulling the cable 26 one way opens the curtains (not shown) and pulling it the other way closes the curtains.

In securing the track to rafters, overhead beams or like supports, the requisite number of intermediate brackets 13 is first placed on the respective sections 10 and 11. The track sections preferably are raised to position with a substantial overlapped portion at the center as shown, and the brackets are slid along the sections to suitable attaching postions on the overhead support. The brackets 13 being identical, webs 18 of adjacent brackets at the overlapping portions of the oppositely faced track sections may be connected together by bolts 19 engaged through cooperating apertures 20 in the respective brackets. With the track sections 10 and 11 thus connected together as required, the end brackets 21 may be slid into place and secured to the overhead support (not shown). Brackets 21 being identical, they may be interchangeably secured to either end of the track, with the cable operating sheaves 22 or 23 assembled thereon as desired, or the brackets 21 may be first secured in place on the sections and the U-shaped brackets 25 of sheaves 22 or 23 secured on the flanges 24 thereof, to suit the requirements.

Thus has been provided improved supporting brackets for sectional curtain tracks, by means of which the curtain track may be quickly assembled and supported in centered position on overhead supporting means in a stage opening. The interchangeability of these track supporting brackets obviates the usual difficulty of fitting the brackets where they belong, and provides novel means for connecting the track sections together at the overlapping portions thereof.

Modifications of the invention may be resorted to without departing from the spirit thereof or the scope of the appended claims.

What is claimed is:

1. A bracket for supporting sectional curtain track equipment of the type including a pair of oppositely disposed track sections having front and back portions and adapted to be supported in a stage opening or the like in overlapped back to back relation, said bracket comprising a body having a recess therein for longitudinally slidably receiving either one of said track sections, means on said body for fastening it to an overhead structure to support the track section, and an integral apertured member at one side of said body to extend at the back of the track section on which it is mounted, said member being proportioned to be interengageable with the apertured member on a like bracket longitudinally slidably received in oppositely disposed relation on the other of the track sections, whereby pairs of like brackets on the oppositely disposed track sections are adapted to be bolted together through the apertures of the interengaged members thereof to secure said track sections in said overlapping relation.

2. A bracket for supporting sectional curtain track equipment of the type including a pair of channel-shaped track sections adapted to be supported in a stage opening or the like in back to back overlapping relation and in which the track sections have oppositely disposed inwardly directed longitudinal flanges at the open sides thereof, said bracket comprising a body for longitudinally shiftably embracing either one of said track sections, said body having oppositely disposed inturned portions at an open side thereof for engaging said longitudinal flanges on a track section, means on said body for fastening it to an overhead structure to support the track section, and an integral apertured member extending at the closed side of said body, pairs of said brackets being adapted to be mounted in opposite relation on said track sections with said members thereof in overlapping engagement and with the apertures of the members in alignment whereby pairs of said brackets may be bolted together through said aligned apertures of the members thereof to secure said track sections in said overlapping relation.

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