Sept. 26, 1933. R. J. DE WEES 1,928,149

PUSH BAR

Filed Nov. 7, 1932 2 Sheets-Sheet 1

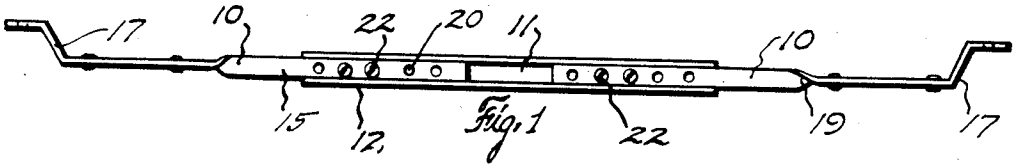


Fig. 1

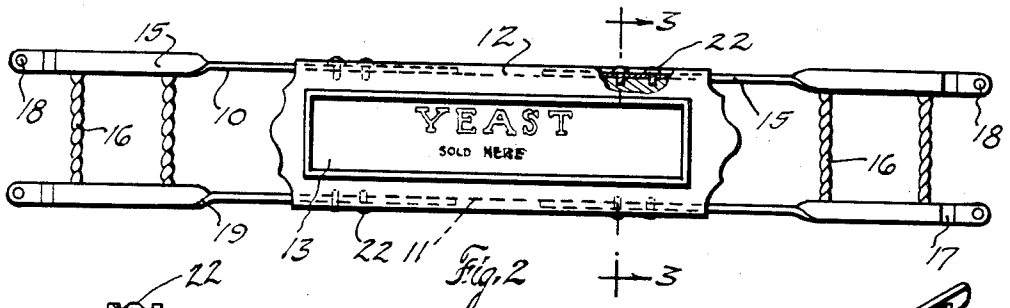


Fig. 2

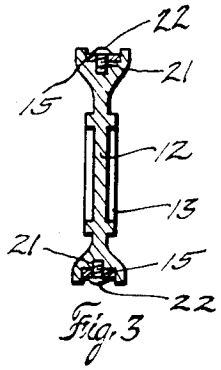


Fig. 3

Fig. 4

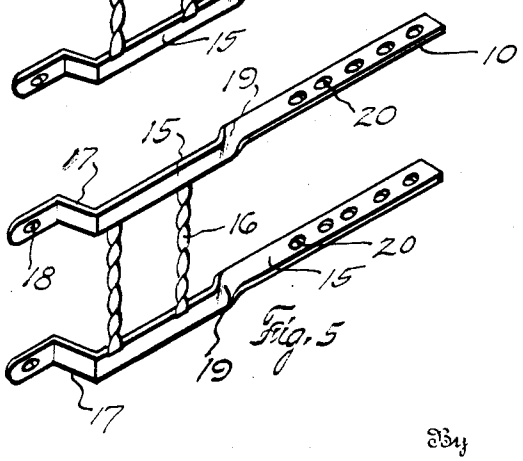


Fig. 5

Fig. 6

Inventor
Russell J. De Wees

By Jack A. Ackley
Attorney

Sept. 26, 1933. R. J. DE WEES 1,928,149

PUSH BAR

Filed Nov. 7, 1932 2 Sheets-Sheet 2

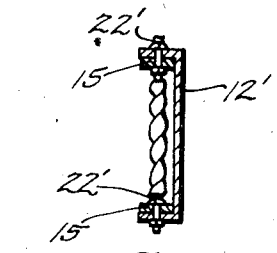


Fig. 8

Fig. 7

Fig. 9

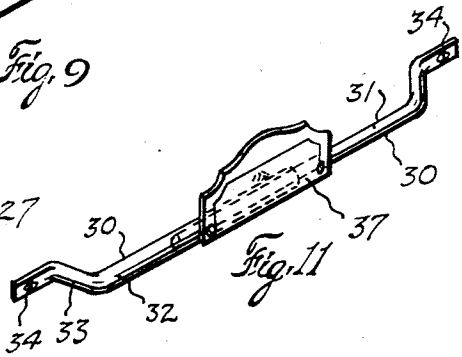


Fig. 11

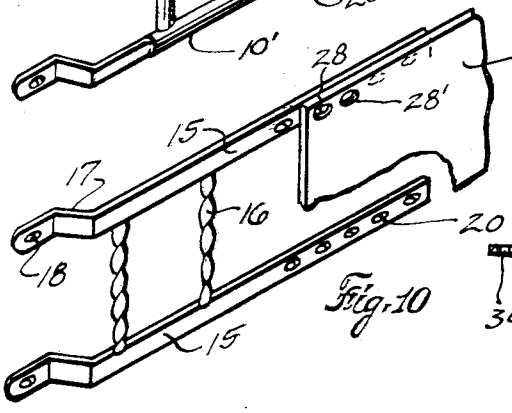


Fig. 10

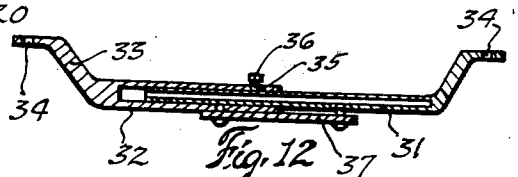


Fig. 12

Inventor
Russell J. De Wees

By Jack A. Ashley
Attorney

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UNITED STATES PATENT OFFICE

1,928,149

PUSH BAR

Russell Joseph De Wees, Dallas, Tex.

Application November 7, 1932. Serial No. 641,543

8 Claims. (Cl. 40—125)

This invention relates to new and useful improvements in push bars.

One object of the invention is to provide an improved push bar which is adjustable and which may be applied to any standard size of door, whereby a convenient means for pushing or pulling open a door is provided.

Another object of the invention is to provide an improved push bar, having end sections which are adapted to be secured to the stiles of a door, and a central panel having a display space thereon connecting the end sections which are offset so as to hold the push bar away from the door, thereby protecting said door.

Still another object of the invention is to provide a push bar having end sections adapted to be secured to the stiles of a door, said end sections being slidably mounted in a central section, whereby rigidity and durability of the bar is had.

A further object of the invention is to provide an adjustable push bar having a central panel carrying a display, said panel being removable, whereby another panel carrying different display may be substituted.

A still further object of the invention is to provide an improved push bar consisting of a pair of slidable end sections adjustably secured to a central display panel, whereby the bar may be quickly and easily secured to different size doors.

A construction designed to carry out the invention will be hereinafter described, together with other features of the invention.

The invention will be more readily understood from a reading of the following specification and by reference to the accompanying drawings in which an example of the invention is shown, and wherein.

Figure 1 is a plan view of a push bar constructed in accordance with the invention,

Figure 2 is a front elevation of the same,

Figure 3 is a vertical sectional view taken on the line 3—3 of Figure 2,

Figure 4 is an isometrical view of the push bar,

Figure 5 is an isometrical view of one of the end sections,

Figure 6 is a front elevation of the push bar showing the same attached to a door,

Figure 7 is an isometrical view of a modified form of the invention,

Figure 8 is a vertical sectional view taken on the line 8—8 of Figure 7,

Figure 9 is an isometrical view of another form of push bar,

Figure 10 is a partial isometrical view of still another form of the invention,

Figure 11 is an isometrical view of another form of the invention, and

Figure 12 is a sectional view of the same.

In the drawings the numeral 10 designates a pair of end sections which are slidably mounted in horizontal channels 11 provided at the top and bottom of a center panel 12. The center panel has a display space 13, which may be utilized for any desired purpose. I have shown the panel in an ornamental design, but the invention is not to be limited to any particular shape or size.

Each end section 10 (Figure 5) consists of a pair of horizontal bars 15 which are secured together by vertical bridle bars or connectors 16. The connectors may be welded or in any other suitable way fastened to the bars 15, and although I have shown said connectors as twisted (which strengthens the same and adds to their appearance), it is not necessary that they be so constructed. Each bar 15 is offset at 17 and an opening 18 is provided at its outer end for receiving a bolt (not shown) which secures said bar to the stile of a door. The offset holds the central portion of the bar away from the door, thereby protecting said door.

As is best shown in Figures 4 and 5, the bar 15 is twisted at 19 so that its inner end will lie flat in the horizontal channels 11 of the center panel. The twist in the bar 15 will also strengthen the same as it will eliminate the tendency of said bar to bow or bend when pressure is exerted against the entire push bar. The inner end of each bar 15 is provided with a plurality of openings 20 which are spaced to register with screw threaded openings 21 in the channels 11. Screws 22 pass through openings 20 in each bar 15 and screw into the openings 21 in the channels 11. It is noted that the engagement of the inner ends of the bars 15 within the channels serves to strengthen the bar. When pressure is exerted against the entire push bar, the tendency of said bar to bow or bend at its middle will be overcome by the engagement of the inner ends of the bars 15 with the sides of the channels 11. Also the appearance of the entire push bar is improved, as the ends of the bars 15 are hidden from view.

I have shown each channel provided with two openings 21 for each bar, but it would be possible to hold the bars 15 secure in the channels by using only one screw for each bar or by using more than two screws, and the invention is not to be limited to any particular number. It is obvious that by removing the screws 22 and slid-

ing the end sections 10 outwardly or inwardly, the push bar may be adjusted to fit different size doors and said end sections may be rigidly secured in the channels 11 at any desired position, due to the plurality of openings 20 in the bars 15.

It is pointed out that by adjusting both end sections the central panel 12 will always be positioned midway between said end sections and will at all times be at the center of the door. Also, as shown in Figure 3, the panel 12 is so constructed that it is in alinement with the braces 16 and the bars 15, which greatly adds to the appearance of the bar.

The panel 12 may carry any desired advertising indicia and the adjustability of the end sections 10 will allow the bar to be attached to any size door. The merits of the display space 13 are obvious as the entrance to a building is seen by every person entering the building, as well as by those passing the same. The push bar is a permanent fixture and if it is desired to change the display carried by the panel 12, it is merely necessary to remove said panel and substitute another one carrying a different display.

In Figures 7 and 8 I have shown another form of the invention. The end sections 10 are made exactly as those shown in my preferred form. The central display panel 12' is made with rearwardly extending flanges 24 and the bars 15 slide within the flanges adjacent the same behind the panel. Bolts 22' pass through openings 24' in the flanges and through the openings 20 in the bars 15 to hold said bars in adjusted positions.

In Figure 9 I have shown a modified form of the invention. The central panel 12, instead of having channels 11, is provided with horizontal bores 25 which receive rods 15' of end sections 10'. Set screws 26 serve to hold the end sections in desired positions.

Still another form of the invention is shown in Figure 10, wherein the bars 15 of the end sections 10 are not twisted. The central panel 27 is constructed of a flat piece of metal and carries the advertising indicia. The bars 15 pass behind the panel and are held in adjusted positions by bolts 28 which pass through openings 28' in the panel and through the openings 20 in the bars 15 to secure said bars to said panel.

In Figures 11 and 12 I have shown another modified form of the invention. In this form the end sections 30 are in the form of a pair of tubular members 31 and 32. The member 31, as shown in Figure 2, slides within the member 32. Each member is offset at 33 and has openings 34 at its outer end for receiving a bolt (not shown) to fasten said section to a door stile. The member 32 is provided with a screw-threaded opening 35 near its inner end, and this opening receives a set screw 36 which holds the member 31 in a desired position within the member 32. A display panel 37 may be suitably secured to the members, preferably midway of the entire bar so as to hide the connection between the two end sections and improve the appearance of the bar.

The description which has been given recites more or less detail of a particular embodiment of the invention, which is set forth as new and useful, however, I desire it understood that the invention is not limited to such exact details of construction because it is manifest that changes and modifications may be made, within the scope of the appended claims, without departing from the spirit of the invention.

What I claim and desire to secure by Letters Patent is:

1. A push bar for swinging doors comprising a central panel carrying advertising indicia and having horizontal channels therein, and a pair of end sections each including a pair of horizontal bars secured together and having their outer ends adapted to be secured to the stiles of a door and having their inner ends slidably mounted in the channels of said central panel, whereby the bar may be lengthened or shortened.

2. A push bar for swinging doors comprising a central panel carrying advertising indicia and having rearwardly directed flanges, and end sections adjustably secured to said flanges.

3. A push bar for swinging doors comprising a central panel having rearwardly directed flanges, and a pair of end sections having their outer ends adapted to be secured to the stiles of a door and having their inner ends adjustably mounted to said flanges, whereby said central panel forms a connection between said end sections.

4. A push bar for swinging doors comprising a central panel carrying indicia and having a horizontal bore at its upper and lower ends, and end sections adjustably secured in said bores.

5. A push bar for swinging doors comprising a central panel having a horizontal bore at its upper and lower ends, and end sections each including a pair of horizontal rods secured together and having their outer ends adapted to be secured to the stiles of a door and having their inner ends adapted to slide within the bores, and means for holding said bars in adjusted positions within the bores.

6. A push bar for swinging doors comprising a central panel carrying indicia, a pair of end sections each including a pair of flat bars secured together, and means for rigidly securing said central panel to said bars to form a connection between the two end sections.

7. A push bar for swinging doors comprising, a central panel, end sections each having spaced members engaging said panel and provided with means for mounting on a door, and means for adjustably securing the end sections to the panel.

8. A push bar for swinging doors comprising, a central panel carrying indicia on its face, channels extending longitudinally along the top and bottom of said panel, and end sections having portions adjustably fastened in said channels and provided with means for mounting them on a door.

RUSSELL JOSEPH DE WEES.