April 1, 1930. J. FARVER 1,752,428

HINGE

Filed Dec. 7, 1928

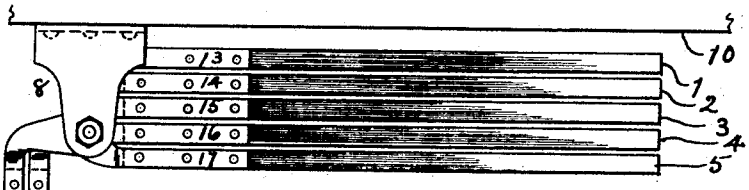


Fig. 1.



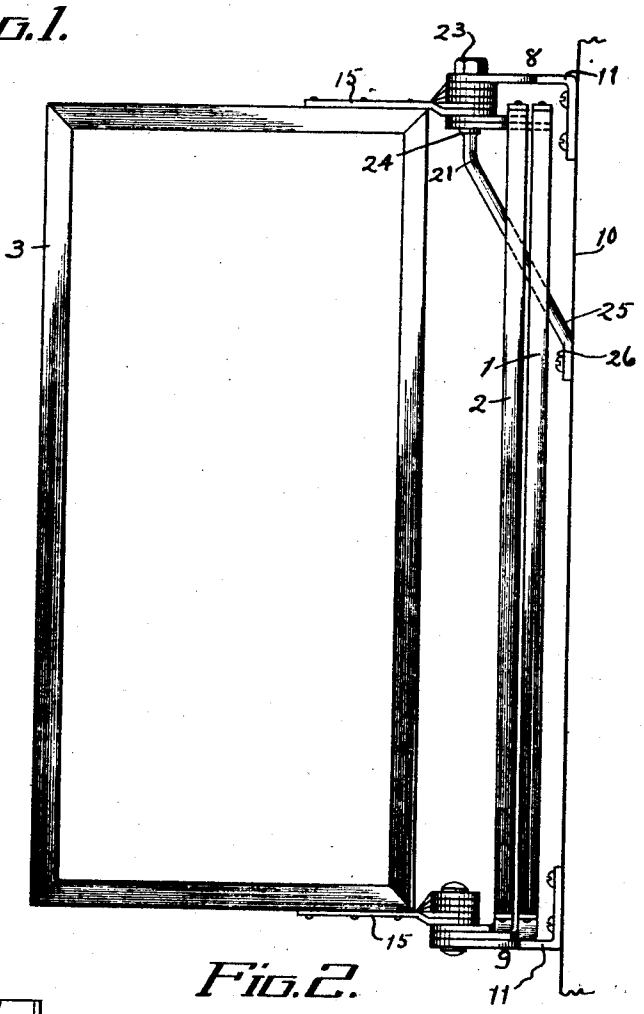


Fig. 2.

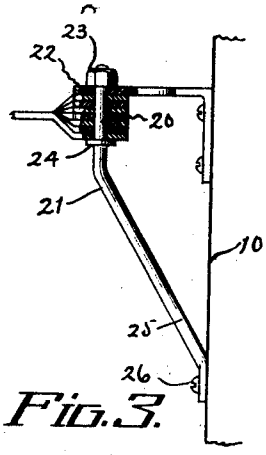


Fig. 3.

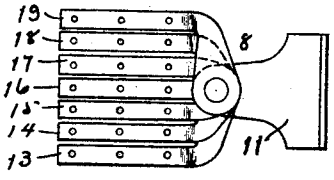


Fig. 4.

Inventor

Jonathan Farver

By Louis C. Vanderlip.

Attorney

Patented Apr. 1, 1930 1,752,428

UNITED STATES PATENT OFFICE

JONATHAN FARVER, OF SHIPSHEWANA, INDIANA

HINGE

Application filed December 7, 1928. Serial No. 324,356.

This invention relates to hinges, and particularly to hinges for supporting swinging display frames.

The principal object of my invention is to provide a brace for the hinge invention shown in my Patent No. 1,467,476.

Another object of the invention is to provide a combined brace and hinge pintle for the invention shown in said patent.

Other and more specific objects of the invention are mentioned and described herein.

The preferred embodiment of my invention is illustrated in the accompanying drawing, wherein

Figure 1 is a top plan view of a plurality of display frames carried by the hinge structure;

Fig. 2 is a side elevation thereof;

Fig. 3 is a side elevation showing the upper hinge and brace, partially in section; and

Fig. 4 is a plan view of the hinge and bracket.

Similar numerals of reference indicate like parts throughout the several views on the drawing.

Referring to the details of the drawing the numerals 1 to 7 inclusive indicate a plurality of upright display frames or boards carried by the two upper and lower hinge elements 8 and 9, respectively, which hinges may be secured to a wall element 10 in any suitable manner.

Both hinges 8 and 9 are alike in construction except the pintle for the upper hinge 8 and each comprises an L shaped sheet metal bracket 11 adapted to be secured to the wall 10 in any suitable manner, and a plurality of hinge arms 13 to 19 inclusive, said arms being pivotally mounted, in the case of hinge 8, upon the pintle portion 20 of the combined pintle and brace element 21.

As illustrated and described in my Patent No. 1,467,476 the hinge comprises an unequal number of hinge arms all of which are angularly formed except hinge arm 16 which is substantially straight.

The upper end of hinge pintle portion 20 is rigidly connected with the bracket 11 by traversing bracket aperture 22, a nut 23 being threaded upon the end thereof into snug engagement with the upper surface of said bracket. A stop shoulder or flange 24 may be provided on the pintle portion 20 of element 21 to serve as a bearing for the lower hinge arm and to maintain the juxtaposition of all of said hinge arms. The lower end of element 21 may be inwardly bent at 25 and adapted to be secured to the wall 10 by any suitable means, as a screw 26.

In practice and the operation of the complete device illustrated in my herein mentioned patent it was found that the weight of the frames 1 to 7 was substantial and caused the hinge brackets to sag somewhat. It was therefore necessary and advisable to introduce some kind of brace or support to prevent such sagging, and the element 21 effectually prevents such an effect.

I claim:

1. In a hinge, the combination of an L shaped hinge bracket, a combined hinge pintle and brace connected with said bracket, and a plurality of hinge arms pivotally connected with the pintle portion of said combined pintle and brace.

2. In a hinge, the combination of an L shaped hinge bracket, a combined hinge pintle and brace connected with said bracket, a plurality of hinge arms pivotally connected with the pintle portion of said combined pintle and brace, and means on said pintle for maintaining the juxtaposition of said hinge arms.

In witness whereof I have hereunto affixed my signature this 30th day of November, 1928.

JONATHAN FARVER.