April 15, 1958 L. MILLER 2,830,335

VERTICAL JALOUSIE VANE ASSEMBLY

Filed May 21, 1956

FIG. 1.

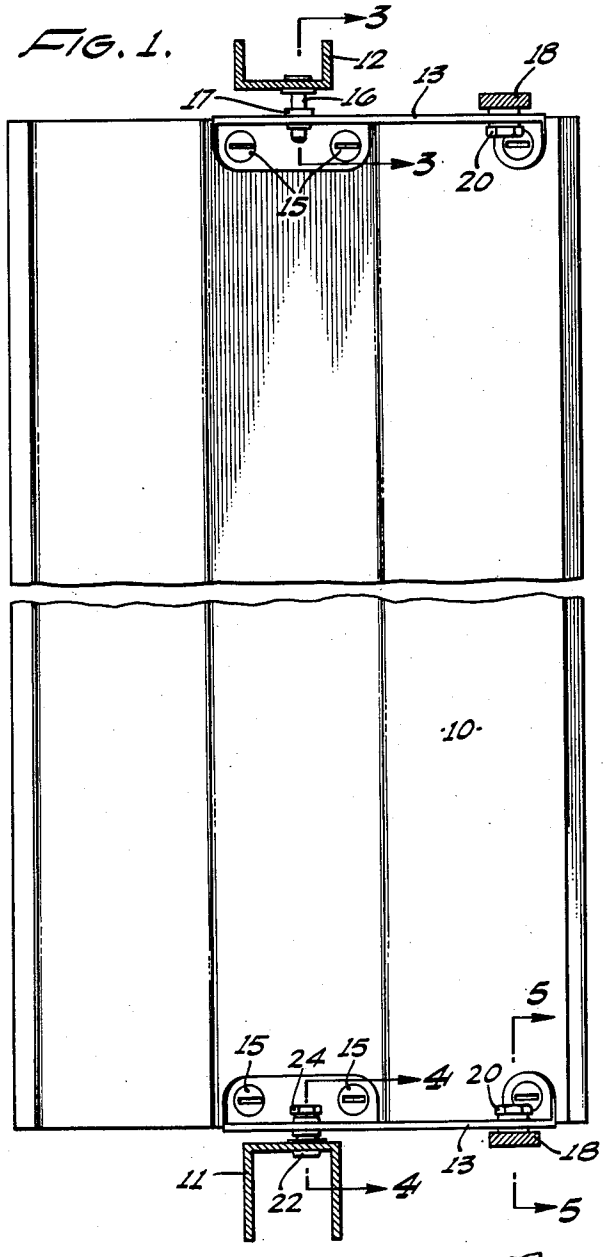


FIG. 3.

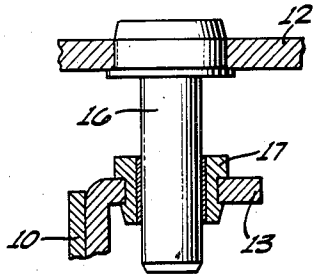
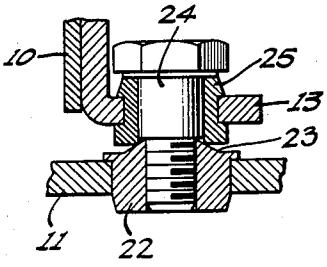


FIG. 4.



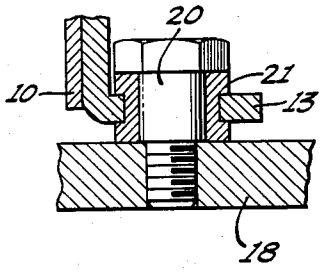
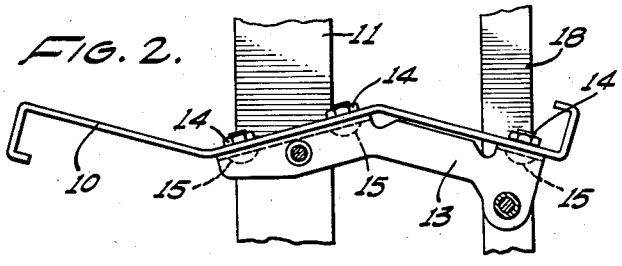


FIG. 5.

FIG. 2.



LEE MILLER
INVENTOR.

BY Lyon & Lyon
ATTORNEYS

United States Patent Office

2,830,335

Patented Apr. 15, 1958

2,830,335

VERTICAL JALOUSIE VANE ASSEMBLY

Lee Miller, Gardena, Calif.

Application May 21, 1956, Serial No. 586,044

1 Claim. (Cl. 20—62)

This invention relates to a vertical jalousie vane assembly and more particularly to improved pivot means for pivotally mounting a vertical jalousie vane.

It is one object of this invention to provide a vertically extending jalousie in which friction is reduced to a minimum.

It is another object of this invention to provide means in association with such a vertical jalousie which prevents lifting or blowing of the vanes out of the assembly.

It is a further object of this invention to provide pivot means for a vertically extending jalousie vane which is self-draining and thus prevents filling of the pivot means with water and freezing in wintertime.

These and other objects, features and advantages will be apparent from the annexed specification, in which:

Figure 1 is a front view of a jalousie vane made in accordance with the present invention.

Figure 2 is an end view thereof.

Figure 3 is an enlarged section taken along the line 3—3 of Figure 1.

Figure 4 is an enlarged section taken along the line 4—4 of Figure 1.

Figure 5 is an enlarged section taken along the line 5—5 of Figure 1.

Referring now more particularly to the drawings, the vane **10** is mounted between a lower channel **11** and an upper channel **12**. Each vane **10** has secured thereto at the top and bottom a tilt arm **13** affixed to the vane as by nuts **14** and bolts **15**. The upper tilt arm **13** is pivoted upon a pivot pin **16** mounted in channel **12** by a bushing **17** mounted in a suitable hole in the tilt arm. An operating arm **18** is pivotally connected to tilt arm **13** by a shoulder bolt **20** threaded into a tapped hole in the operating arm, a bushing **21** being mounted in a suitable hole in the tilt arm **13**. Except for a reversal of direction, the assembly at the bottom is identical with respect to the shoulder bolt connection to the operating arm and hence Figure 5 illustrates this assembly in both cases.

The lower end of the vane is pivoted upon the channel **11** as illustrated in Figure 4. A pivot **22** is affixed in a hole in the channel, which pivot is provided with a conical bearing surface **23**. A shoulder bolt **24** is threaded into a tapped opening in the pivot **22** and a bushing **25** secured in a hole in the tilt arm **13** has a line engagement with a conical surface **23** of pivot **22** as clearly illustrated in Figure 4. As this presents a minumum bearing area, friction is obviously reduced. It is also obvious that any moisture collecting upon the surface **23** of the pivot **22** will flow to the side and hence the pivot will not become filled with water which might freeze in the wintertime.

While there has been described what is at present considered the preferred embodiment of the invention, it will be understood that various changes and alterations may be made therein without departing from the essence of the invention, and it is intended to cover herein all such changes and alterations as come within the true scope and spirit of the annexed claim.

I claim:

A jalousie comprising a vertically extending vane; a tilt arm secured to said vane means pivotally mounting said tilt arm adjacent one end thereof to an operating arm; means pivotally mounting said vane to an upper support; means pivotally mounting said tilt arm to a lower support, said last mentioned means including a conical bearing carried by said lower support and a sleeve carried by said tilt arm and engaging said conical bearing with a line contact, said conical bearing being threaded and having a shoulder bolt threaded therein to secure said sleeve on said bearing, said sleeve being mounted upon said bolt.

References Cited in the file of this patent

UNITED STATES PATENTS

1,519,553	Riker	Dec. 16, 1924
1,950,243	House	Mar. 6, 1934
2,726,426	Biggs	Dec. 13, 1955
2,760,242	Armstrong	Aug. 28, 1956