Nov. 18, 1958 W. H. BRAUN 2,860,391

JALOUSIE LOUVRE END CLIP

Filed Feb. 7, 1957

FIG. 1.

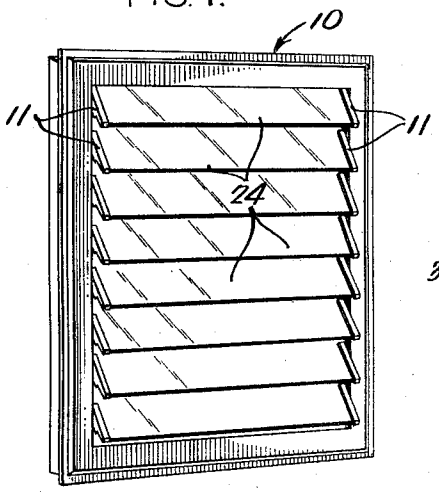


FIG. 7.

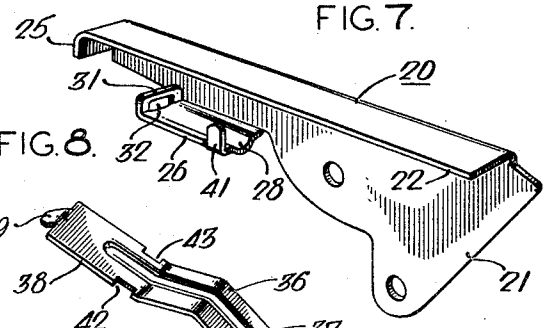


FIG. 8.

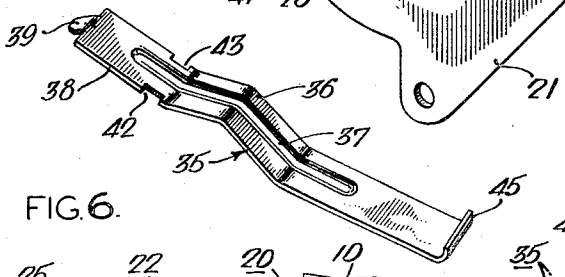


FIG. 6.

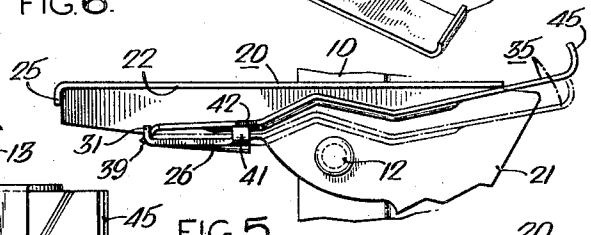


FIG. 2.

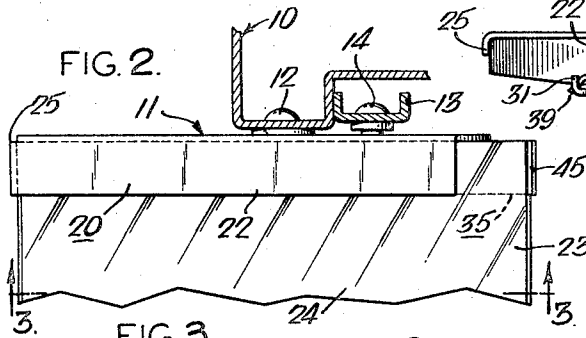


FIG. 5.

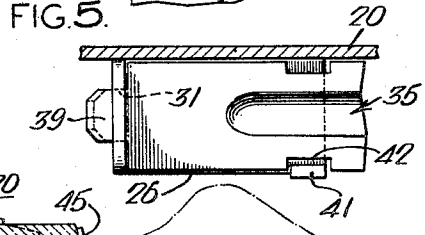


FIG. 3.

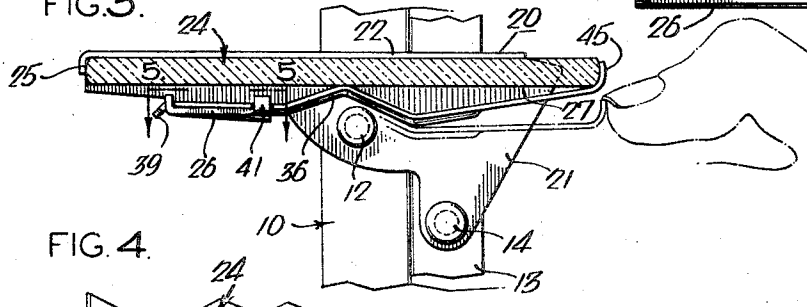
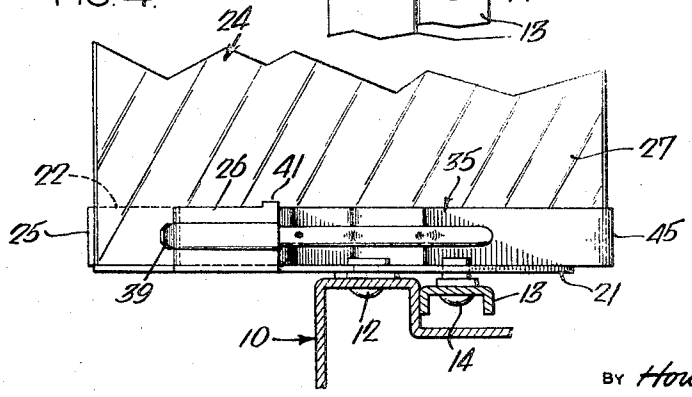


FIG. 4.



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JALOUSIE LOUVRE END CLIP

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6 Claims. (Cl. 20—62)

The present invention relates to jalousie windows and doors, and more particularly to an improved end clip for mounting the louvres of the jalousie for pivotal movement in the frame.

The present invention provides an improved clip construction which affords ready removal of the louvre from the clip, but which insures firm engagement of the louvre against accidental displacement during normal operation.

The present invention provides a louvre end clip of improved construction which is of simple manufacture and is readily assembled.

More specifically the present invention provides a louvre end clip which engages the louvre in the central part thereof, prevents movement of the clip longitudinally of the louvre and holds the louvre itself against lateral displacement.

All the objects and the various features and details of the construction and operation of the invention are more fully set forth hereinafter with reference to the accompanying drawing, in which:

Fig. 1 is a thumb-nail sketch in perspective of a jalousie window as seen from the exterior;

Fig. 2 is a fragmentary view in plan of a louvre end clip made in accordance with the invention, mounted in the frame, and engaged on the end portion of a louvre of the jalousie;

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2 showing the end clip in side elevation;

Fig. 4 is a fragmentary view in inverted plan of the end clip shown in Fig. 2;

Fig. 5 is a sectional view taken on the line 5—5 of Fig. 3;

Fig. 6 is a view similar to Fig. 3 with the louvre removed, and

Figs. 7 and 8 are detached perspective views of the elements of an end clip made in accordance with the present invention.

Referring to the drawing, an end clip assembly **11** made in accordance with the present invention is shown mounted for pivotal movement as indicated at **12** on a frame **10** and supporting a louvre **24**. Actuator means is provided to pivotally displace the clip **11** simultaneously with the displacement of the clips mounting the other louvres. In the present instance the actuator means comprises a channel member **13** pivotally mounted on the end clip as indicated at **14**. The end clip assembly **11** comprises an outside member **20** having a vertically disposed side plate **21** receiving the respective pivotal mounting means **12** and **14**. The member **20** is provided with an elongated flange **22** at an edge of the plate **21** overlying the outer surface **23** of the end portion of the louvre **24**. The flange **22** terminates at one end in a lip **25** which engages the lower side edge of the louvre **24** and supports it against downward displacement.

Means is provided to bias the louvre **24** against the flange **22**. To this end a support bracket is mounted on

the end plate **21** of the member **20** in inwardly spaced relation from the inner surface **27** of the louvre. The bracket **26** comprises an elongated web substantially parallel to the flange **22** and having a longitudinal groove **28** formed therein. The web of the bracket **26** terminates at one end in a leg portion **31** projecting toward the flange **22** at the end of the web adjacent the lip **25**. An aperture **32** is provided in the leg portion **31** in registry with the groove **28**.

In accordance with the invention, a spring element **35** is mounted on the bracket **26** and resiliently engages against the inner surface **27** of the louvre to bias the louvre against the flange **22**. To this end the spring element **35** comprises an elongated resilient strip having an angular inwardly-bowed section **36** intermediate the ends thereof. As shown in Fig. 3, the inwardly-bowed section engages the inner surface **27** of the louvre when the strip **35** is assembled to the bracket **26**. The strip is formed with a reinforcing rib **37** disposed longitudinally of the strip in the bowed section and extending beyond the bowed section at its opposite ends.

The strip **35** is adapted to be mounted or anchored at one end in the bracket **26** and is operable to be engaged at the other end with the side edge of the louvre **24** opposite to the edge which engages against the lip **25**. The rib **37** extends into the anchoring end **38** of the strip and is adapted to project into the groove **28** of the mounting bracket **26**. At the extremity of the anchoring end **38**, the strip **35** is formed with an endwise projecting finger **39**. The finger **39** engages in the aperture **32** to prevent lateral displacement of the end portion **38** relative to the bracket **26**. The interengagement of the rib **37** and the groove **28** also assists in preventing lateral displacement of the strip **35**.

To further insure against lateral displacement of the strip **35**, the bracket **26** is provided with an ear **41** spaced laterally from the groove **28** and projecting toward the flange **22** adjacent the end of the web remote from the leg **31**. The ear **41** engages in an aperture **42** formed in the strip **35** adjacent one edge thereof. A similar aperture is provided at **43** to register with a leg similar to the leg **41** formed in an end clip of the other hand for mounting at the opposite end of the louvre. Thus, when the strip is assembled to the bracket, it is held against inadvertent displacement. However, as shown in broken lines in Fig. 6, the strip may be displaced from engagement with the bracket **26** by flexing the same inwardly to free the aperture **42** from the ear **41** and to afford withdrawal of the finger **39** from the aperture **32**.

Means is provided to engage the side edge of the louvre **24** which is remote from the inturned lip **25** of the end member **11**. To this end the remote extremity of the spring strip **35** is formed with an inturned lip **45** operable to engage against the adjacent edge of the louvre **24**. As stated above, the element **35** is preferably formed of spring metal or similar resilient material and is supported at one end in the mounting bracket **26**. Thus, the lip **45** may be displaced outwardly away from the inner face **27** of the louvre **24** to afford lateral displacement of the louvre for cleaning or repair. This operation is shown in broken lines in Fig. 3. It is noted that the spring element **35** is removably mounted on the bracket **26** so that in the event of over-sized or under-sized louvres, a correspondingly over-sized or under-sized spring strip may be substituted for the spring strip **35**. In this way, the end clip affords firm engagement of the louvre at opposite side edges thereof.

The end mounting of the louvre of the present invention provides an assembly which is readily assembled and economically manufactured. The assembly may accommodate louvres of varying sizes without substantial modi-

fications and is fully effective to prevent rattling of the louvre in the end clip and prevent inadvertent lateral displacement of the louvre out of engagement with the clip.

With reference to Fig. 6, it is noted that assembly of the strip **35** to the member **20**, requires flexure of the strip **35** to engage the leg **41** in the aperture **42**. Similarly, it requires flexure of the strip to disengage the same from the mounting bracket **26**. Thus, the strip **35** may be assembled to the bracket **20** at the assembly plant prior to the insertion of the louvre **24**, and the assembly may be shipped with the louvres removed without danger of losing the parts by inadvertent disengagement thereof.

While a particular embodiment of the present invention has been herein illustrated and described, it is not intended to limit the invention to such disclosure but changes and modifications may be made therein and thereto within the scope of the following claims.

I claim:

1. A louvre end clip for jalousie windows, doors and the like, comprising an outside member for pivotally mounting the louvre on the window side frame, said member having an elongated flange overlying one surface of the louvre end portion and terminating at one end in a lip engaging one side edge of the louvre; a support bracket on said member having a web spaced apart from the opposite surface of said louvre, a leg projecting toward said flange at one end of the web, means defining an aperture in said leg and an ear at the other end of said web projecting toward said flange; an elongated resilient spring strip releasably mounted at only one end on said bracket and operable to engage against the opposite surface of said louvre when the latter is in place, and operable to engage against said flange upon removal of said louvre, said strip being formed intermediate the ends thereof with an inwardly bowed section for engagement with said opposite surface of the louvre, means to limit lateral displacement of said strip relative to said web including an out-turned finger at the terminus of said one end section projecting through said aperture of the leg, and means defining an opening in said one end section receiving said ear upon interengagement of said finger and said aperture both when the louvre is in place and when it is removed whereby the strip must be flexed to disengage said opening from said ear to disassemble said strip from said bracket, said strip including at the free terminus of the other end section an in-turned lip engaging the opposite side edge of the louvre, said free terminus and said bowed section being operable to be disengaged from said louvre by flexing said other end section outwardly.

2. A louvre end clip according to claim 1 wherein said web is formed with a longitudinal groove therein, and wherein further said spring strip has a rib disposed longitudinally of said strip in said one end section and engaging in said groove of the bracket web.

3. A louvre end clip according to claim 2 wherein said leg aperture is in registry with said groove.

4. A louvre end clip according to claim 3 wherein said ear is spaced laterally from said groove, and wherein further said opening in said strip comprises a notch formed in one side edge of said strip in registry with said ear of the support bracket.

5. A louvre end clip according to claim 1 wherein said inwardly bowed section is angular in form and is provided with a longitudinal reinforcing rib therein.

6. A louvre end clip for jalousie windows, doors, and the like, comprising an outside member for pivotally mounting the louvre on the window side frame, said member having an elongated flange overlying one surface of the louvre end portion and terminating at one end in a lip engaging one side edge of the louvre, a support bracket on said member having a web disposed substantially parallel to said flange and spaced apart from the opposite surface of said louvre, said web having a longitudinal groove therein, a leg projecting toward said flange at one end of the web, means defining an aperture in said leg in registry with said groove at one end thereof, an ear spaced laterally from said groove and projecting toward said flange at the other end of said web, an elongated resilient spring strip releasably mounted at one end only on said bracket and operable to resiliently engage against the opposite surface of said louvre when the latter is in place, and operable to engage against said flange upon removal of said louvre, said strip being formed intermediate the ends thereof with an angular inwardly bowed section for engagement with said opposite surface of the louvre, a reinforcing rib disposed longitudinally of said strip in said bowed section and extending therebeyond at opposite ends thereof, said rib in said one end section of said strip engaging in said groove of the bracket web to limit lateral displacement of said strip relative to said web, an out-turned finger at the terminus of said one end section projecting through said aperture of the leg, and means defining a notched opening in said one end section receiving said ear upon interengagement of said finger and said aperture both when the louvre is in place and when it is removed whereby the strip must be flexed to disengage said opening from said ear to disassemble said strip from said bracket, said strip including at the free terminus of the other end section an inturned lip engaging the opposite side edge of the louvre, said free terminus and said bowed section being operable to be disengaged from said louvre by flexing said other end section outwardly.

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