

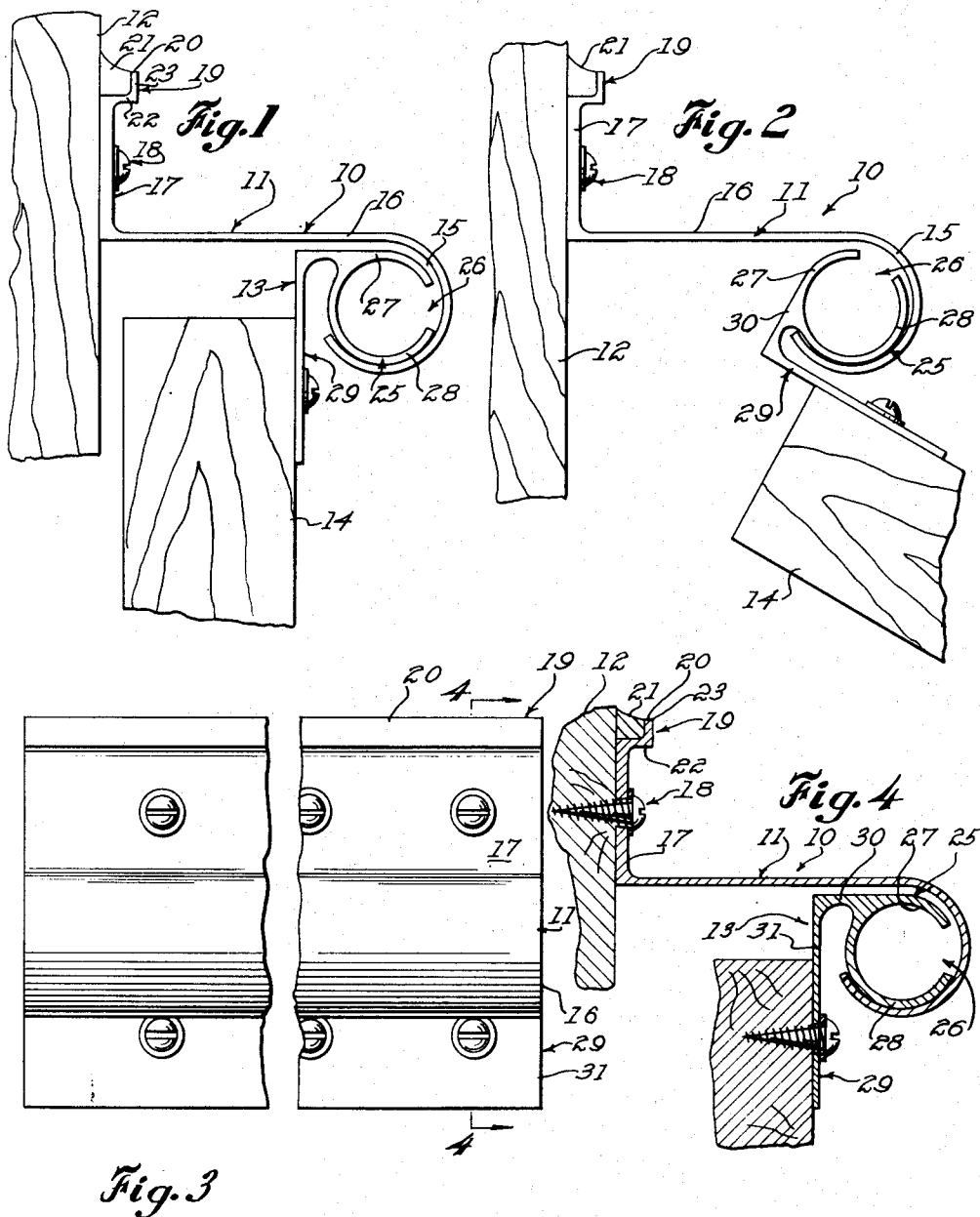
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I. KIMMEL

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HINGE, INCLUDING A DETACHABLE LEAF

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INVENTOR.

IRVINE KIMMEL

BY

McMorrow, Berman & Davidson
ATTORNEYS

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HINGE, INCLUDING A DETACHABLE LEAF

Irvine Kimmel, Miami Beach, Fla.

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2 Claims. (Cl. 16-172)

1

This invention relates to hinges, and more particularly to a hinge including a detachable, movable leaf.

An object of this invention is to provide a hinge which includes a movable leaf which is detachably supported on the anchor leaf in frictional engagement therewith.

Another object of this invention is to provide a hinge which includes a frictionally engaging, movable leaf that is particularly adapted for the support of an awning or the like.

A further object of this invention is to provide a hinge which includes a movable leaf and is particularly adapted for prolonged use exteriorly of a structure, wherein the hinge is subjected to deleterious effects of constant weathering.

A still further object of this invention is to provide a hinge in which the anchor leaf and the movable leaf can be speedily and readily assembled and disassembled.

A still further object of this invention is to provide a hinge which includes a frictionally engaging, movable leaf, the hinge being simple in structure and relatively cheap to manufacture.

The above and still further objects and advantages of the invention will become apparent upon consideration of the following detailed description of the invention, when taken in conjunction with the accompanying drawings, wherein:

Figure 1 is a side elevational view of the hinge of the present invention detachably secured to a supporting surface and dependently carrying an awning or the like;

Figure 2 is a side elevational view of the hinge shown in Figure 1 supporting an awning or the like at an angle with respect to the supporting surface;

Figure 3 is a front elevational view of the hinge shown in Figures 1 and 2, with parts broken away; and

Figure 4 is a sectional view taken along the line 4-4 of Figure 3.

Referring now more particularly to the drawings, wherein like reference numerals have been used throughout the several views to designate like parts, there is shown the hinge of the present invention, generally designated by the reference numeral 10 which comprises an anchor leaf 11 detachably secured to a vertical supporting surface 12 and a movable leaf 13 dependently carrying an awning or the like, generally designated by the reference numeral 14, the movable leaf 13 being axially received and supported in a guideway 15 provided in the anchor leaf 11 for

2

limited rotary movement about an axis extending transversely of the anchor leaf.

The anchor leaf 11 embodies a flat plate 16 which has a portion adjacent one end arcuately bent downwardly and inwardly with its tip spaced from the plate to provide the transversely disposed guideway 15 which has a circular cross-section. Disposed contiguous to the other end of the plate 16 and having its lower end fixedly secured thereto is a vertically disposed flange 17 which is adapted to be disposed in abutting relation with respect to the supporting surface 12. Extending transversely through the flange 17 and threadedly engaging the supporting surface 12 is a securing element, generally designated by the reference numeral 18 and illustrated as a wood screw. Disposed transversely of the upper end of the flange 17 and secured thereto is a ledge 19 which cooperates with the adjacent portion of the supporting surface 12 to provide a channelway 20 for the reception of a sealing compound 21 to prevent rain from flowing between the abutting faces of the flange 17 and the supporting surface 12. As clearly illustrated in Figures 1 and 2, the ledge 19 includes a horizontally disposed leg 22 having one end fixedly secured to the upper end of the flange 17 and a vertically disposed leg 23 spaced from the vertical supporting surface 12, and having its lower end fixedly secured to the other end of the horizontally disposed leg 22.

The movable leaf includes an L-shaped bracket generally indicated by the reference numeral 29, the bracket embodying a long leg 31 and a short leg 30 arranged perpendicularly with respect to the leg 31, the short leg 30 having one end connected to one end of the leg 31. An open ended sleeve 25 is arranged transversely of the long leg 31 and is secured to the short leg 30 adjacent the other end of the latter. The sleeve 25 is provided with a slit 26 extending throughout its length and forming separated ends 27, 28 the slit and separated ends being remote from the long leg 31. The long leg 31 of the bracket 29 is spaced from the sleeve 25 and forms a space for receiving the one end of the plate 16 when the movable leaf is rotated in a direction to move the long leg 31 of its bracket 29 away from the plate 16. From the foregoing, it is readily apparent that the degree of rotation of the movable leaf 13 with respect to the anchor leaf 11 is determined by the disposition of the short leg 30 with respect to the tip of the arcuately bent portion 15.

In actual use, the anchor leaf 11 can be speed-

3

ily secured to the supporting surface 12 by means of the securing elements 18, and the movable leaf 13 can be secured at the desired location on the awning 14, whereupon the sleeve 25 of the movable leaf 13 can be axially inserted within the guideway 15 for support therein and for the desired limited rotary movement. When it is desired to disassemble the device, it is merely necessary to axially move the sleeve 25 with respect to the guideway 15 to thereby bring the movable leaf out of its supported position.

The novel hinge of the present invention provides a relatively simple structure for the attachment of an awning or the like to the supporting surface. It is to be noted that the provision of the ledge 19 assures a relatively waterproof seal between the flange 17 and the supporting surface 12. It is to be further noted that the arcuately bent end of the plate 16 provides a hood for the movable leaf 13 to thereby protect the latter from the deleterious effects of prolonged use exteriorly of a building.

Although only one embodiment of the hinge of the present invention has been described, it is readily apparent that numerous modifications can be made without departing from the spirit of the invention as set forth in the appended claims.

What I claim is:

1. A hinge comprising an anchor leaf embodying a flat plate having a portion adjacent one end arcuately bent downwardly and inwardly with its tip spaced from the plate to provide a transversely disposed guideway of circular cross section, means on the other end of said plate for securement to a vertical supporting surface, and a movable leaf supported in said guideway for rotary movement, said movable leaf including an L-shaped bracket having a long leg and a short leg arranged perpendicularly with respect to the long leg, said short leg having one end connected to one end of the long leg, an open ended sleeve arranged transversely of the long leg and secured to the short leg adjacent the other end of the latter, there being a slit in said sleeve extending throughout its entire length and forming separated ends, the slit and separated ends being remote from the long leg, said sleeve extending axially through and rotatably supported in said guideway, and means on the long leg adjacent the

4

other end thereof for attachment to an awning, the long leg of said bracket being spaced from said sleeve and forming a space for receiving the said tip of said plate when said movable leaf is rotated in a direction to move the long leg of its bracket away from said plate.

2. A hinge comprising an anchor leaf embodying a flat plate having a portion adjacent one end arcuately bent downwardly and inwardly with its tip spaced from the plate to provide a transversely disposed guideway of circular cross section, a flange projecting perpendicularly from the other end of said plate for securement to a vertical supporting surface, said flange being on the side of said plate opposite said guideway, and a movable leaf supported in said guideway for rotary movement, said movable leaf including an L-shaped bracket having a long leg and a short leg arranged perpendicularly with respect to the long leg, said short leg having one end connected to one end of the long leg, an open ended sleeve arranged transversely of the long leg and secured to the short leg adjacent the other end of the latter, there being a slit in said sleeve extending throughout its entire length and forming separated ends, the slit and separated ends being remote from the long leg, said sleeve extending axially through and rotatably supported in said guideway, and means on the long leg adjacent the other end thereof for attachment to an awning, the long leg of said bracket being spaced from said sleeve and forming a space for receiving the said tip of said plate when said movable leaf is rotated in a direction to move the long leg of its bracket away from said plate.

IRVINE KIMMEL.

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