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SEMICONCEALED CABINET DOOR HINGE

Filed June 10, 1965

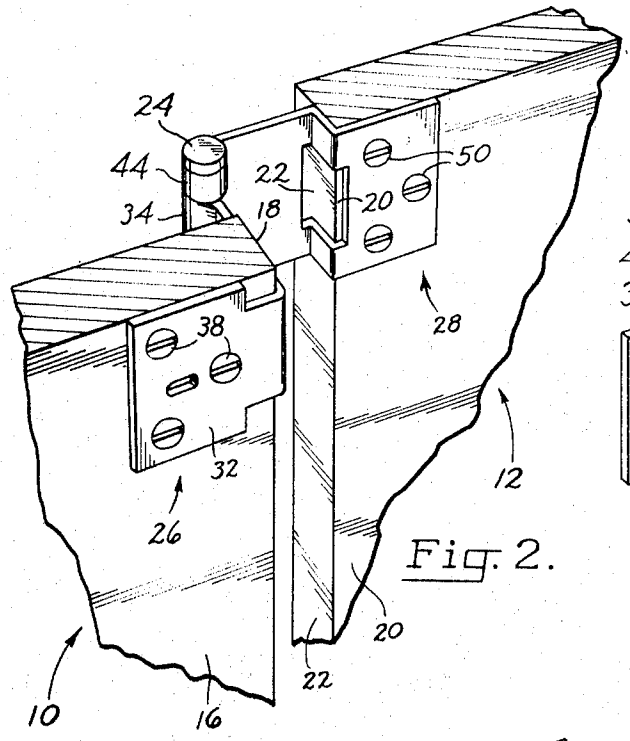


Fig. 2.

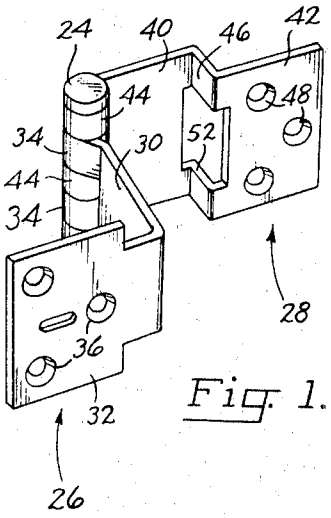


Fig. 1.

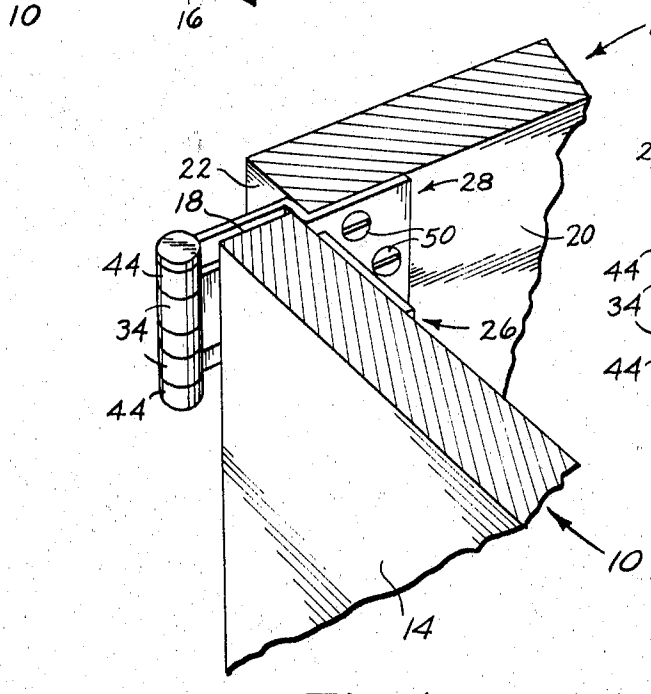


Fig. 4.

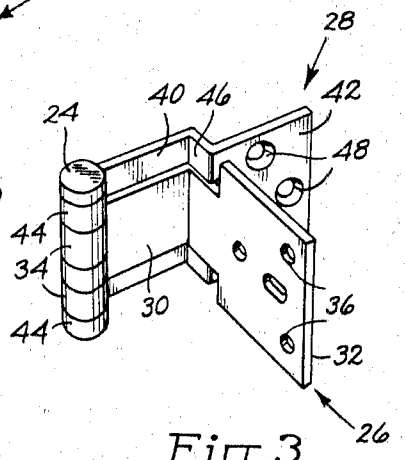


Fig. 3.

Allan A. Bucholz
INVENTOR

BY Eugene D. Farley

Atty.

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SEMICONCEALED CABINET DOOR HINGE

Allan A. Bucholz, Gig Harbor, Wash., assignor to Tacoma Millwork Supply Company, Tacoma, Wash., a corporation of Washington

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U.S. Cl. 16—135 1 Claim

ABSTRACT OF THE DISCLOSURE

A door hinge has a cabinet-mounted leaf offset intermediate its ends and a door-mounted leaf bent intermediate its ends at right angles, the two leaves being hinged together at one end. The hinge projects beyond the front face of the door. The intermediate offset portion of the cabinet-mounted leaf is notched to receive the right angle portion of the door-mounted leaf.

This invention relates to semiconcealed hinges adapted for use in hinging a cabinet door across a cabinet opening.

It is the general object of the invention to provide a semiconcealed hinge of attractive appearance which may be used to advantage in hinging a nonlipped, square-edged, cabinet door across a cabinet door opening defined by the edges of top, bottom and side pieces, the door overlying part only of the edges of the pieces, thereby achieving a decorative offset appearance.

It is another object of the present invention to provide a semiconcealed hinge for hinging a cabinet door, the door being maintained a minimum but predetermined spaced distance outwardly from the members defining the door opening.

In the drawings:

FIG. 1 is a view in perspective of the semiconcealed cabinet door hinge of my invention in its open position;

FIG. 2 is a fragmentary perspective view of the hinge applied to an open cabinet door;

FIG. 3 is a perspective view of the hinge in closed position; and

FIG. 4 is a fragmentary perspective view of the hinge applied to a closed cabinet door.

As shown in FIGS. 2 and 4, the presently described semiconcealed hinge is adapted for use in hinging a cabinet door **10** to the side piece **12** of a cabinet. The door is provided with a front face **14**, a back face **16** and a back edge **18**. The side piece has an inner face **20** and an outer edge **22**.

The door is dimensioned to overlie the cabinet door opening, being spaced slightly outwardly therefrom and overlapping the framing members only partway, thereby providing a decorative offset appearance.

The hinge by means of which the door is mounted on the cabinet comprises basically a hinge pin **24**, a first hinge leaf indicated generally at **26** and a second hinge leaf indicated generally at **28**. Hinge leaf **26** is designed to be secured to the door, while hinge leaf **28** is designed to be secured to the cabinet side piece.

To achieve the desired manner of mounting and decorative effect, hinge leaf **26** is formed in two segments, a spacing segment **30** which spaces the hinge pin a spaced distance outwardly from the door, and a securing segment **32** by means of which the leaf is secured to the inner face of the door.

Spacing segment **30** is of sufficient length to overlie the back edge **18** of the door. Its outer end is attached to, or formed with, a plurality of spaced knuckles **34** dimensioned to receive hinge pin **24** in pivotal relation.

Securing segment **32** of hinge leaf **26** is formed integrally with spacing segment **30**, but is bent outwardly

at an angle of substantially 90°. It overlies the back face of the door and is provided with a plurality of screw holes **36** which receive screws **38** by means of which the hinge leaf is secured to the inner face of door **10**. The second hinge leaf **28** likewise is formed in two segments, i.e., an angular spacing segment **40** and a flat securing segment **42**.

Spacing segment **40** mounts at its inner end a plurality of spaced, integral knuckles **44** which are interleaved with knuckles **34** of hinge leaf **26** and which receive hinge pin **24** in pivotal relation. The outer end of spacing segment **40** is bent substantially at right angles to provide a spacing section **46**.

Spacing segment **40** thus serves dual spacing functions. First, it spaces hinge pin **24** outwardly beyond the plane of the face of door **14**, as appears particularly in FIG. 4. Secondly, it spaces the back edge **18** of the door a spaced distance inwardly on outer edge **22** of cabinet side piece **20**, as required to secure the desired degree of door overlap.

Securing segment **42** is formed integrally with spacing segment **40** and is bent at right angles to section **46** thereof. It extends outwardly and is dimensioned to overlie the inner face **20** of cabinet side piece **12**. It is provided with screw holes **48** dimensioned to receive screws **50** by means of which it is fixed to side piece **12**.

The spacing segments of the two leaves of the ends are dimensioned and arranged so that one nests within the other when the hinge is in its closed position, thus making it possible to locate door **10** snugly across the cabinet opening.

To this end, spacing segment **30** of hinge leaf **26** is made substantially narrower than is angled spacing segment **40** of hinge leaf **28**. In addition, the latter hinge leaf section is cut away to provide an opening **52** dimensioned to receive spacing segment **30** of hinge leaf **26**, thus achieving a nesting relationship of the two hinge leaves when they are closed in the position of FIGS. 3 and 4.

It thus will be seen that by the present invention, there is provided a semiconcealed hinge useful in hinging a nonlipped, square-edged, cabinet door across a cabinet door opening in such a manner that the door overlies part only of the edges of the cabinet pieces framing the opening, thereby achieving a decorative offset appearance. In addition, by suitable dimensioning of the hinge parts, it is possible to alter the spacing of the door from the cabinet, the spacing of the hinge pin and knuckles from the door, and the degree of overlap of the door with reference to the edges of the pieces framing the door opening, as required to produce a variety of ornamental and functional effects.

It is to be understood that the form of my invention herein shown and described is to be taken as a preferred example of the same and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of my invention.

Having thus described my invention, I claim:

1. A semiconcealed hinge adapted for use in hinging a cabinet door having front and back faces and a back edge, across the opening of a cabinet including top, bottom, back and side pieces, each side piece having an inner face and an outer edge, the hinge comprising:

(a) a hinge pin,

(b) a first hinge leaf comprising a plurality of spaced knuckles receiving the pin, a spacing segment and a securing segment bent substantially at right angles to the spacing segment,

(c) the spacing segment being of sufficient length to overlie the back edge of the door and to space the pin outwardly beyond the plane of the outer face thereof,

(d) the securing segment being dimensioned to overlie the back face of the door and being provided with securing means for securing it to the door,

(e) a second hinge leaf comprising a plurality of spaced knuckles interleaved with the knuckles on the first hinge leaf and also receiving the pin, an angularly bent spacing segment and a securing segment,

(f) the spacing segment of the second hinge leaf including two sections formed at right angles to each other, the first section being dimensioned to space the pin outwardly from the plane of the cabinet side piece outer edge a distance greater than the thickness of the door and the second section being dimensioned to overlie the inner margin of the outer edge of the cabinet side piece and to space the door in a predetermined overlap thereof,

(g) the securing segment of the second hinge leaf being formed at right angles to the second section of the spacing segment thereof and being dimensioned to overlie the inner face of the cabinet side piece

and being provided with securing means for securing it thereto, and

(h) the spacing segment of the first hinge leaf being substantially the same length as but narrower than the spacing segment of the second hinge leaf and the second section of the spacing segment of the second hinge leaf being recessed to receive the spacing segment of the first hinge leaf.

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BOBBY R. GAY, *Primary Examiner.*

D. L. TROUTMAN, *Assistant Examiner.*