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CABINET DOOR STRUCTURE

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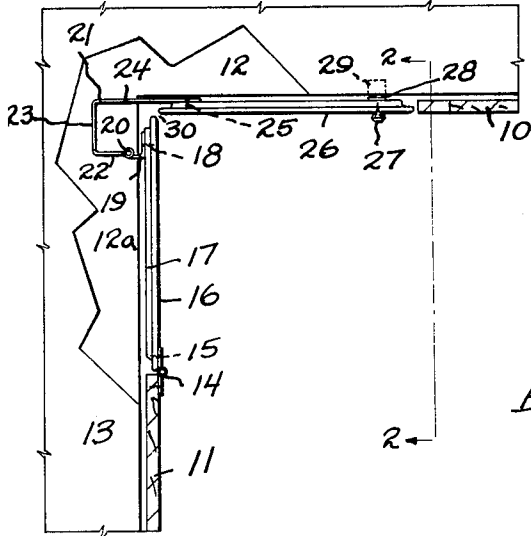


Fig. 1

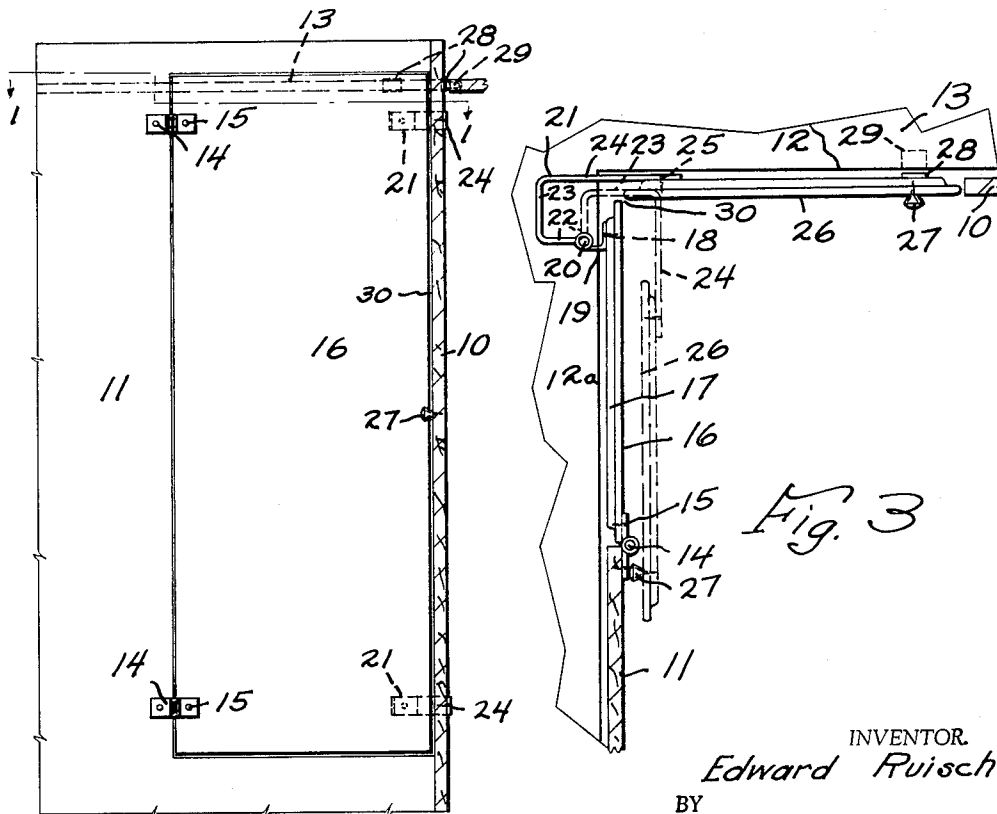


Fig. 2

Fig. 3

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**CABINET DOOR STRUCTURE**

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2 Claims. (Cl. 312-238)

My invention relates to a cabinet door structure.

An object of my invention is to provide a pair of mutually pivoted doors which can be opened individually or in assembled relation to accommodate an approximately L-shaped cabinet section.

A further object of my invention is to provide an easily operated door arrangement.

A further object of my invention is to provide a special hinging arrangement whereby the doors can be operated individually or as a segmented unit, and whereby the hinges are completely hidden.

With these and other objects in view, my invention consists in the construction, arrangement, and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings in which:

FIGURE 1 is a sectional view taken generally along the lines 1-1 of FIGURE 2,

FIGURE 2 is a sectional view of FIGURE 1 taken along the lines 2-2 of FIGURE 1, and

FIGURE 3 is an enlarged detail.

My invention contemplates the provision of a cabinet door arrangement which will comprise a pair of doors which when closed will enclose the inner corners of a substantially L-shaped shelf section, and wherein one of the door portions can be opened, or both of the sections can be completely opened, and without requiring an excessive number of hinges and the like.

In describing my invention I have used the character 10 to designate a cabinet wall, the character 11 indicating a further cabinet wall positioned at right angles to the wall 10, and I have further used the characters 12 and 12a to indicate the portions of a shelf adjacent to the walls 10 and 11, the character 13 indicating a horizontal upper wall.

Attached to the wall 11 are the hinges 14 which can be placed externally or internally as desired and which hinges are attached as at 15 to a cabinet door 16 including the integrally reduced portion at 17.

Suitably attached as at 18 to the portion 17 are the right-angle brackets 19 to which are hinged as at 20 the hinge members 21, which members include the portions 22, 23, and 24. The portions 24 are attached as at 25 to a further door 26 to which is attached the handle 27. The character 28 indicates magnetic strips attached to door 26 which provide latches and which are adapted to engage the small magnets 29 suitably attached to the wall 13 for retaining the doors in closed position. It will be specifically noted that a slight space is left at 30 between the doors.

It will be noted from the foregoing construction that the door 26 can be opened by merely pulling on the knob 27 and swinging the door about the hinging point at 20, whereby the door can then occupy the dotted position shown in FIGURE 3, or any other intermediate position, so that the shelf portion 12 will be rendered accessible. However, to render both shelf portions 12 and 12a accessible, the knob 27 can be pulled and the entire arrangement comprising both doors 16 and 26 can be pivoted at the hinges 14 without requiring separate opening of both door portions, and whereby the swinging of the entire ar-

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angement will then open the entire L-shaped section. The doors are closed in the reverse manner as is evident from the drawings.

The portions 23 of the hinge members 21 are made of a length greater than the combined thickness of the doors to thereby provide an efficient method of hinging and yet keeping the hinges completely hidden.

It will now be noted that I have provided the advantages mentioned in the objects of my invention with further advantages being apparent.

Some changes may be made in the construction and arrangement of the parts of my invention without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claims any modified forms of structure or use of mechanical equivalents which may be reasonably included within their scope.

I claim as my invention:

1. In combination with an L-shaped cabinet having an L-shaped shelf having portions at right angles to each other a door structure for closing both access opening portions of said substantially L-shaped shelf comprising a first door hinged to said cabinet, a second door hinged to said first door, means for latching both of said doors, a handle attached to said second door whereby said second door can be opened only, and whereby both of said doors can be simultaneously opened, hinge members attached between said first door and said second door, said hinge members being located interiorly of said doors and including hinge brackets attached to said first door, further hinge elements having portions hinged to said brackets, said hinge elements having further portions substantially parallel to said first door, and having still further integral portions merging from said further portions and being attached to said second door.

2. In combination with an L-shaped cabinet having an L-shaped shelf having portions at right angles to each other a door structure for closing both access opening portions of said substantially L-shaped shelf comprising a first door hinged to said cabinet, a second door hinged to said first door, means for latching both of said doors, a handle attached to said second door whereby said second door can be opened only, and whereby both of said doors can be simultaneously opened, hinge members attached between said first door and said second door, said hinge members being located interiorly of said doors and including hinge brackets attached to said first door, further hinge elements having portions substantially parallel to said first door, and having still further integral portions merging from said further portions and being attached to said second door, the space between said still further portions and said portions being greater than the combined thickness of both doors.

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