

May 15, 1934.

G. H. ANDERSON

1,959,326

PANEL LOCK JOINT

Filed July 18, 1932

Fig. 1.

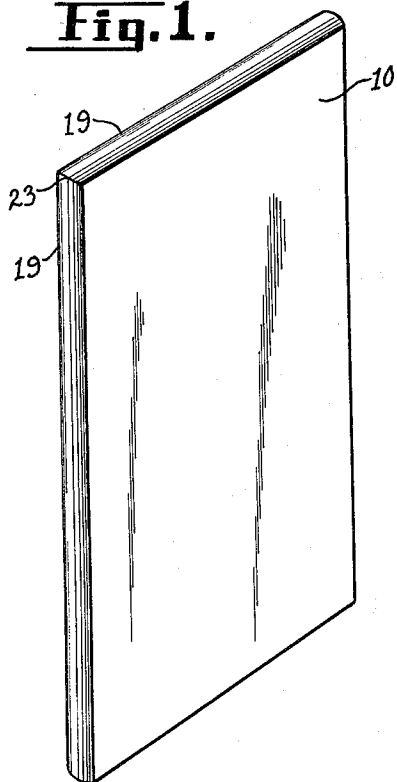


Fig. 2.

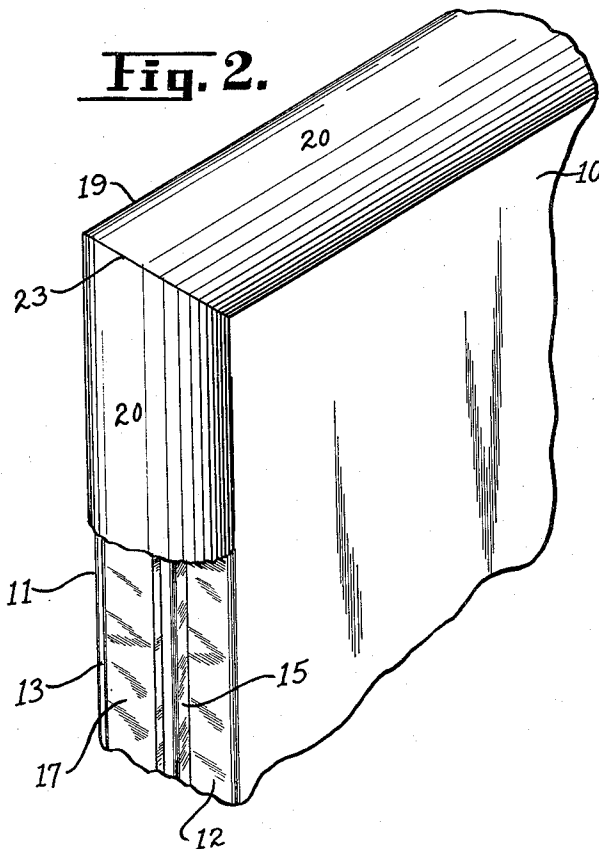
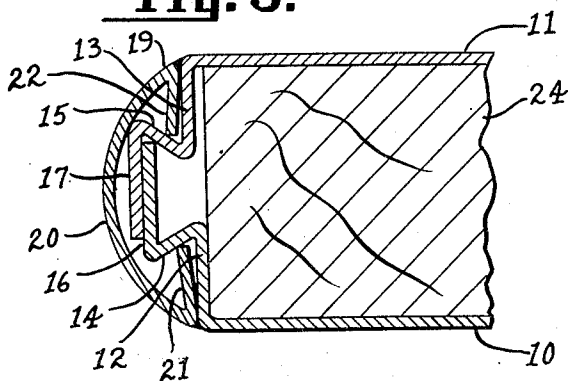


Fig. 3.



INVENTOR
Gustav H. Anderson
BY
H. E. Manning
ATTORNEY

UNITED STATES PATENT OFFICE

1,959,326

PANEL LOCK JOINT

Gustav H. Anderson, New Britain, Conn., assignor to The Hart & Hutchinson Company, New Britain, Conn., a corporation of Connecticut

Application July 18, 1932, Serial No. 623,056

6 Claims. (Cl. 189—34)

This invention relates to metal panel construction, and more particularly to an improved form of metal panel for use in doors, partitions and the like.

One object of the present invention is to provide a metal panel of the above nature constructed from two opposed flat pan members connected together at their edges.

A further object is to provide a metal panel of the above nature in which the side pan members are provided with flanges which are bent into a Z-section, overlapping about the entire periphery of the panel to form a dovetail projection for receiving ornamental concealing molding strips.

A further object is to provide a metal panel of the above nature in which the pan sections can be made of metals which are difficult to spot weld (such as aluminum), and in which different kinds or finishes of metals may be incorporated into the one structure, such as a stainless steel trim in combination with a colored background.

A further object is to provide a metal panel of the above nature which will be water-tight and adapted for use on partitions of all kinds, such as lavatories, shower stalls, hospital booths, etc.

A further object is to provide a metal panel of the above nature, which will be simple and rigid in construction, inexpensive to manufacture, easy to assemble, compact, very ornamental in appearance and durable in use.

With these and other objects in view there has been illustrated on the accompanying drawing one form in which the invention may be conveniently embodied in practice.

In the drawing, Fig. 1 represents a perspective view of a completed door panel embodying the invention.

Fig. 2 is a fragmentary perspective view upon an enlarged scale of the upper left-hand corner of the door panel shown in Fig. 1.

Fig. 3 is an enlarged sectional top view of a portion of one end of the door panel.

Referring to the drawing, in which like reference numerals denote corresponding parts throughout the several views, the numerals 10 and 11 indicate a pair of opposed shallow pan members, having inwardly extending flanges 12 and 13 on all four edges thereof. The flanges 12 and 13 do not extend inwardly sufficiently far to make direct contact with each other, but have divergently inclined extensions 14 and 15, forming an angle of approximately 60 degrees with each other. The extensions 14 and 15 are again

formed inwardly into overlapping sections 16 and 17, making intimate contact and providing a substantially tight joint between the two pan members, the projection so formed being of dovetail section, and extending about the whole periphery of the panel.

In order to cover the joint at the edges of the panel, provision is made of four concealing molding strips 19, each of which has a curved outer surface 20 and a pair of inwardly extending slightly inclined flanges 21 and 22 adapted to engage resiliently the inclined flange extensions 14 and 15, over which they are adapted to slide.

The ends of the molding strips 19 are mitered in such a manner that when all four of said strips are slid into position, the four corners thereof will lie flush with one another as shown.

When the panel is to be used as a partition, no concealing strip 19 is necessary, as in this case the framework in which the panel is fitted covers the joint between the two halves thereof.

The interior of the door panel may also be provided if desired with an interior filling block 24 of any suitable sound-deadening or stiffening material, as shown in Fig. 3.

It will be understood that any suitable hardware, trimmings or fittings may be attached to the panel according to the desires of the user.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosures, but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent, is:

1. In a panel, a pair of pan members having aligned inwardly projecting flanges formed in Z-section and S-section respectively, portions of said flanges being in overlapping relationship and forming a diverging dovetail projection about the whole periphery of the panel.

2. In a panel, a pair of pan members having aligned inwardly projecting flanges formed in Z-section and S-section respectively, portions of said flanges being in overlapping relationship and forming a diverging dovetail projection about the whole periphery of the panel, the edges of said panel being covered by a concealing molding strip slidable over said projection.

3. In a panel, a pair of pan members having first inwardly toward the central plane of the
aligned inwardly projecting flanges formed in Z-
section and S-section respectively, portions of
said flanges being in overlapping relationship and
5 forming a diverging dovetail projection about the
whole periphery of the panel, the edges of said
panel being covered by a concealing molding strip
interlocking with said dovetail projection. 80
4. In a panel, a pair of pan members having
10 aligned inwardly projecting flanges formed in Z-
section and S-section respectively, portions of
said flanges being in overlapping relationship and
forming a diverging dovetail projection about the
whole periphery of the panel, the edges of said
15 panel being covered by a concealing molding strip
resiliently engaging said projection. 85
5. In a panel, a pair of metal pans, each pan
having a formed flange with a section extending
first inwardly toward the central plane of the
said panel, then inclined outwardly, then in-
wardly into overlapping relationship between the
two sections, the edges of the said panel being
covered by a concealing metal molding engaging
the outwardly inclined portions of the said flange
sections. 90
6. In a panel, a pair of metal pans, each pan
having a formed flange with a section extending
first inwardly toward the central plane of the
said panel, then inclined outwardly, then in-
wardly into overlapping relationship between the
two sections, the edges of the said panel being
covered by a concealing metal molding engaging
and interlocking with the outwardly inclined por-
tions of the said flange sections. 95

GUSTAV H. ANDERSON.

20	95
25	100
30	105
35	110
40	115
45	120
50	125
55	130
60	135
65	140
70	145
75	150