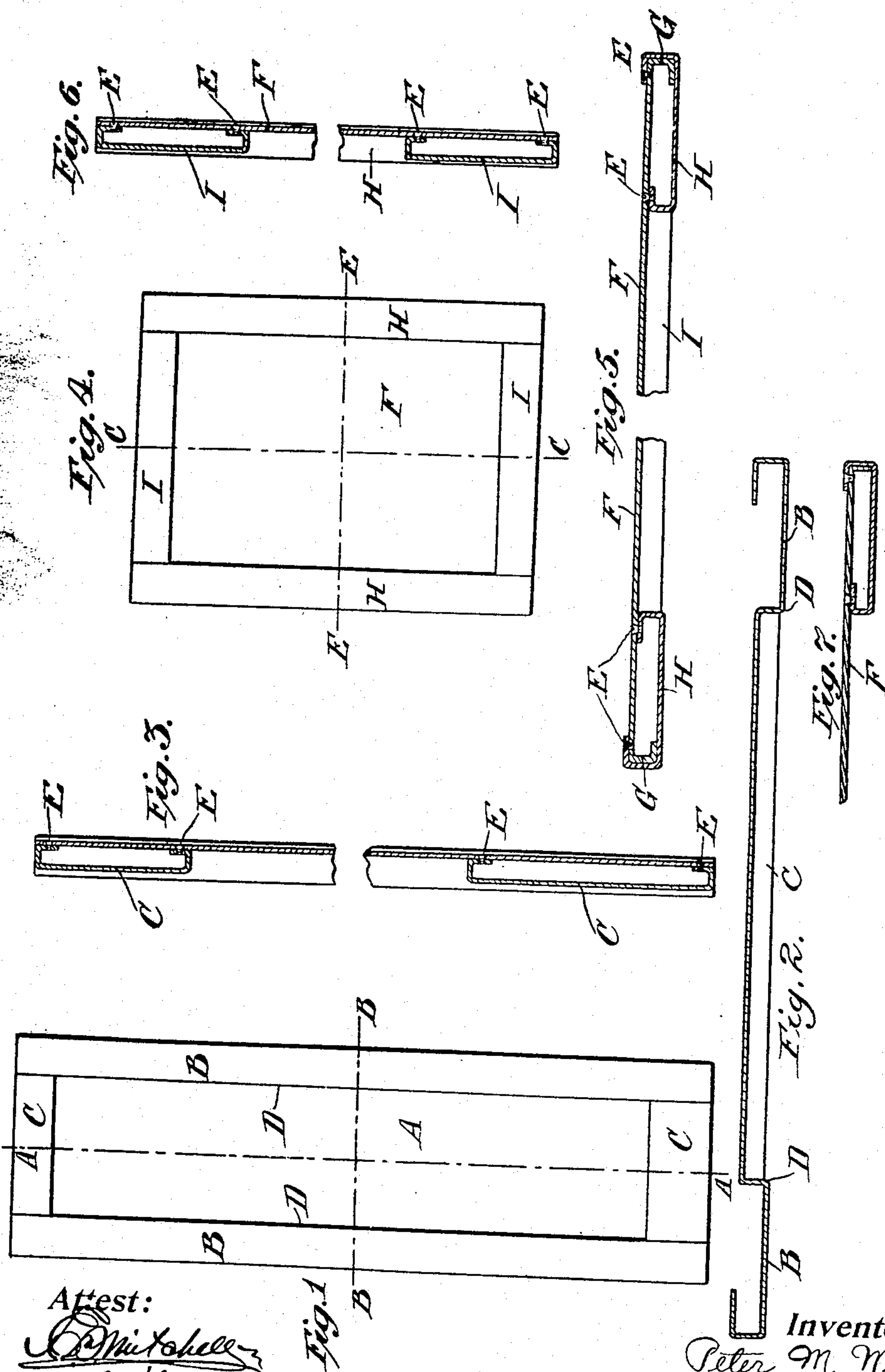


52-627

No. 837,014.

PATENTED NOV. 27, 1906.

P. M. WEGE.
PANEL CONSTRUCTION.
APPLICATION FILED APR. 4, 1906.



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UNITED STATES PATENT OFFICE.

PETER M. WEGE, OF YOUNGSTOWN, OHIO, ASSIGNOR TO THE GENERAL FIREPROOFING COMPANY, OF YOUNGSTOWN, OHIO, A CORPORATION OF OHIO.

PANEL CONSTRUCTION.

No. 837,014.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed April 4, 1906. Serial No. 309,740.

To all whom it may concern:

Be it known that I, PETER M. WEGE, a citizen of the United States, and a resident of Youngstown, Ohio, have invented certain new and useful Improvements in Panel Construction, of which the following is a specification accompanied by drawings.

This invention relates to improvements in sheet-metal panel construction; and the objects of the invention are to simplify and strengthen such panels, cheapen the cost of construction, and obviate exposed rivets or screws.

Further objects of the invention will hereinafter appear; and to these ends the invention consists of a panel construction for carrying out the above objects embodying the features of construction, combinations of elements, and arrangement of parts having the general mode of operation substantially as hereinafter fully described and claimed in this specification and shown in the accompanying drawings, in which—

Figure 1 is a front elevation of a panel embodying the invention. Fig. 2 is a horizontal sectional view on line B B of Fig. 1. Fig. 3 is a vertical sectional view on line A A of Fig. 1. Fig. 4 is a front elevation of a modification. Fig. 5 is a horizontal sectional view on line E E, Fig. 1. Fig. 6 is a vertical sectional view on line C C, and Fig. 7 is a detail sectional view of a modification.

In the simplest form of the panel the sheet or plate of metal A, forming the body portion, is bent as shown in section in Fig. 2, the two sides being bent forward to form the high part B, surrounding the sunken panel and then carried around the edge for a finish. The top and bottom of the frame or high part are filled in between the parts B by means of the bent plates C. (Shown in section in Fig. 3, in plan in Fig. 2, and in elevation in Fig. 1.) These pieces C may be brought up flush with the sides B; but by constructing them slightly lower the difficulty of fitting around the rounded edges (shown at D, Fig. 2) is avoided, and the appearance of the work is very neat and pleasing.

The parts K are preferably attached by means of screws from the back, as shown in Fig. 3 at E.

In the modified form of construction

shown in Figs. 4, 5, 6 the main plate F is formed with a reverse bend at each side, as shown in section Fig. 5 at G, although this sheet may, if desired, be bent with a plain right-angle bend at each side, as in Fig. 7. The formed pieces H are then lapped over the sides of the bent sheet F and preferably secured by means of screws E, passed through from the back. The pieces I are now placed as shown in section Fig. 6 and in plan and elevation in Figs. 5, 4, respectively, and secured by soldering or by means of screws at E, Fig. 6.

In making panels for sheet-metal furniture, doors, &c., it has been the custom to rivet a plate of thin metal to a heavy frame, showing the panel depressed, or to rivet an embossed panel to a surrounding frame, both methods entailing a considerable expenditure of labor and requiring great skill in order that the joints and rivets shall not disfigure the work. My invention permits the manufacture of neat paneled work at a minimum of expense for material and labor and exposes no rivets or screws to view on the finished side of the work.

Obviously some features of this invention may be used without others and the invention may be embodied in widely-varying forms.

Therefore, without limiting the invention to the devices shown and described and without enumerating equivalents, I claim, and desire to obtain by Letters Patent, the following:

1. A sheet-metal panel construction, comprising a body portion having raised sides, and separate raised ends arranged between the sides.

2. A sheet-metal panel construction, comprising a sheet-metal body portion having raised side portions forming high parts, and separate raised end portions also forming high parts arranged between the side portions.

3. A sheet-metal panel construction, comprising a sheet-metal body portion having its sides bent outwardly and then rearwardly to form high parts, and bent plates suitably secured to the body portion of the panel between the high parts forming the sides.

4. A sheet-metal panel construction, comprising a sheet-metal body portion having

its sides bent outwardly and then rearwardly
to form high parts at its sides and bent
plates constructed slightly lower than the
raised side portions of the panel and suitably
5 secured to the body portion between the
high parts forming the sides.

In testimony whereof I have signed this

specification in the presence of two subscrib-
ing witnesses.

PETER M. WEGE.

Witnesses:

GEORGE D. MARGERUM,
H. E. WHILE.