

(No Model.)

J. GRAVES.
SHEET METAL MANTEL.

No. 417,914.

Patented Dec. 24, 1889.

Fig. 1.

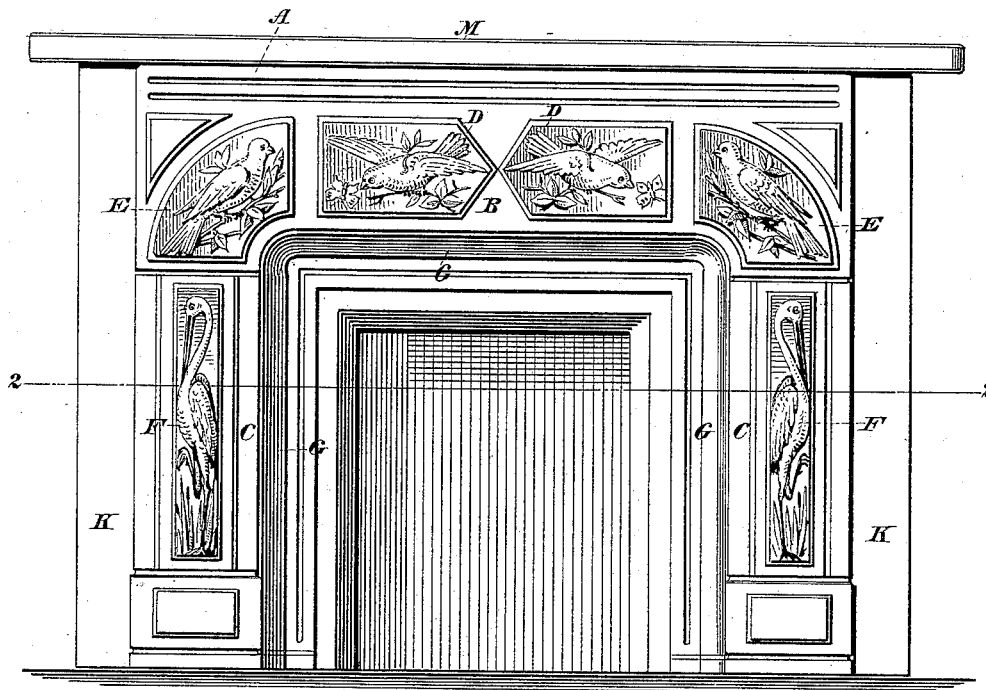


Fig. 2.

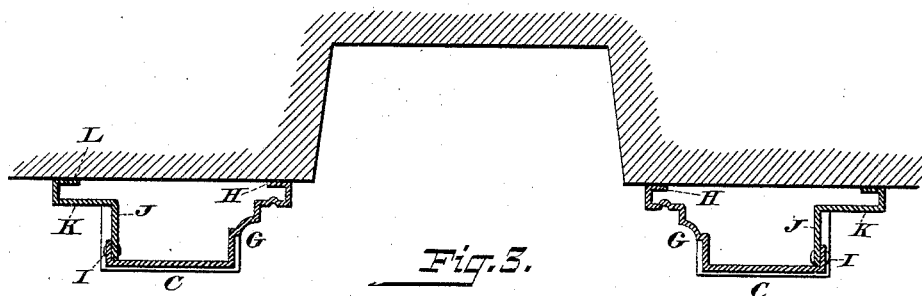
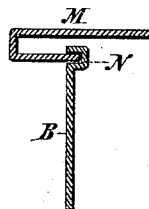


Fig. 3.



WITNESSES:

Gustave Dietrich
R. A. Portman

INVENTOR

John Graves
BY *Chas. O. Gill*
ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN GRAVES, OF BROOKLYN, ASSIGNOR OF ONE-HALF TO GEORGE VAN WAGENEN, OF NEW YORK, N. Y.

SHEET-METAL MANTEL.

SPECIFICATION forming part of Letters Patent No. 417,914, dated December 24, 1889.

Application filed October 11, 1889. Serial No. 326,666. (No model.)

To all whom it may concern:

Be it known that I, JOHN GRAVES, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Sheet-Metal Mantels, of which the following is a specification.

The invention relates to improvements in sheet-metal mantels; and it consists in the construction hereinafter fully described, the object being to produce a mantel of sheet metal which will be durable, easy of arrangement around a fire-place, not likely to become bent or otherwise injured under ordinary usage, and capable of ornamentation to suit the wishes of the manufacturer. To this end the frieze and pilasters of the mantel are formed in dies from a single piece of sheet metal stamped up with suitable panels and flanges, while the profiles and shelf are formed separately from the rest of the mantel and then secured in position, as hereinafter specified.

Referring to the accompanying drawings, Figure 1 is a front plan view of a mantel constructed in accordance with the invention; Fig. 2, a horizontal section of same on the dotted line 2 2 of Fig. 1; and Fig. 3, a detached vertical section through the shelf and frieze, and illustrating the means for connecting the former with the latter.

In the drawings, A designates the front of the mantel, said front being composed of the frieze B and pilasters C C, the whole being stamped from a single piece of sheet metal and provided with panels D D on the frieze, the panels E E at the corners of the mantel, and the panels F F on the pilasters, said panels being stamped up with the mantel and forming corrugations which stiffen and strengthen the metal and at the same time render it ornate in character. Any suitable ornamental figures may be provided for the panels D E F, according to the taste of the manufacturer. Along the inner sides of the pilasters C C and the lower side of the frieze B the sheet metal is bent inward, forming returns G, as illustrated in Fig. 2 in section, the said returns extending toward the wall, adjacent to which the edges of the metal are

turned inward, forming flanges H, which rest against the wall. Along the outer edges of the pilasters C C the metal is bent inward to form the flanges I, to which the profiles J are riveted, as shown. Said profiles with the facings K and inwardly-turned flanges L are formed in a single piece of metal.

The mantel-shelf is lettered M and is formed from a single piece of sheet metal, the metal being bent inward at its front edge to form the thickness desired for the shelf, while the extreme edge of the folded portion of the metal enters the groove N, formed by bending the metal along the upper edge of the frieze B. The mantel-shelf M, being formed in the manner described, presents smooth exterior surfaces and a desirable thickness without being unduly heavy, and this is an important feature, since it adds greatly to the appearance of the mantel and facilitates its adjustment in place. The front edge of the shelf M, being formed by folding the metal, as illustrated in Fig. 3, possesses great rigidity and is capable of withstanding ordinary usage without becoming bent or disfigured.

The mantel constructed in the manner above described consists of but few parts, readily manufactured and easily arranged to form the complete mantel. The inwardly-turned flanges H L afford additional strength to the mantel and present an edge against the wall which cannot easily be bent or disfigured.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A sheet-metal mantel in which the frieze and pilasters are formed in a single piece of metal, combined with the profiles riveted thereto and a shelf, substantially as and for the purposes set forth.

2. In a sheet-metal mantel, the frieze and pilasters stamped from a single piece of sheet metal, with the returns G and flanges H, combined with the profiles J, having the facings K and inwardly-turned flanges L, said profiles, facings K, and flanges L being in a single piece of metal riveted to the said pilasters, substantially as set forth.

3. In a sheet-metal mantel, the frieze and pilasters, the upper edges of the frieze having the groove N, combined with the mantel-shelf

M, formed by folding the metal to afford the desired thickness, the edge of the metal entering said groove N, substantially as set forth.

4. In a sheet-metal mantel, the frieze and
5 pilasters formed in a single piece of sheet metal and having the panels D E F, containing corrugations, combined with the profiles riveted to said pilasters, and a mantel-shelf secured upon the upper edge of said frieze,
10 substantially as and for the purposes set forth.

Signed at New York, in the county of New York and State of New York, this 10th day of October, A. D. 1889.

JOHN GRAVES.

Witnesses:

CHAS. C. GILL,

R. A. PORTEOUS.