

T. F. BAKER.  
Iron-Mantel.

No. 165,781.

Patented July 20, 1875.

FIG. 1.

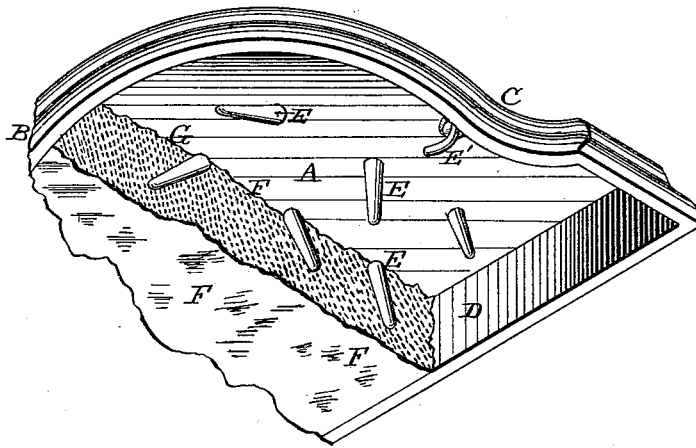
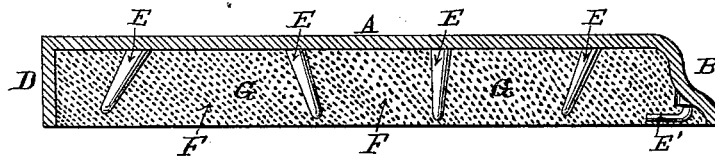


FIG. 2.



ATTEST:

*Robert Burns.*  
*Henry Tamers*

INVENTOR:

*Thomas F. Baker*  
*By Knight Bros.*  
*Attys.*

# UNITED STATES PATENT OFFICE.

THOMAS F. BAKER, OF ST. LOUIS, MISSOURI.

## IMPROVEMENT IN IRON MANTELS.

Specification forming part of Letters Patent No. 165,781, dated July 20, 1875; application filed March 1, 1875.

*To all whom it may concern:*

Be it known that I, THOMAS F. BAKER, of St. Louis, St. Louis county, State of Missouri, have invented a certain new and useful Improvement in Iron Mantels, of which the following is a specification:

My improvement consists of an iron mantel-shelf, whose under side has numerous projections or pins, having, preferably, inclination in various directions, to take a firm hold in the cement occupying the recess at the under side of the iron shelf.

In the drawings, Figure 1 is an under perspective view of one end of a mantel-shelf of my improved construction, a part being shown before filling and a part filled in. Fig. 2 is a transverse section.

A is the top plate; B, the front flange; C, the end flange, and D the back flange. The iron portion of the shelf (described above) may be cast in the usual manner, except that upon the under side of the top plate A are cast a number of lugs or pins, E, projecting preferably in various directions, so as to take a firm hold of the cement F, with which the cavity G at the under side of the shelf is filled. The recess or cavity G is filled in with the cement flush with the edges of the flanges B C D, so as to make the shelf solid, thus avoiding the objectionable hollow sound found in metallic shelves before the introduction of my improvement.

The metallic shelf, when hollow, returns a

hollow sound when struck, and this has always been considered the chief objection to the marbled-iron mantel. With my improvement the mantel when struck returns the dead sound of solid marble.

In my preferred mode of construction, the part of the mold forming the recess G of the casting is stabbed with a smooth taper-pointed instrument, and the pins or lugs E are formed by the molten metal filling these punctures.

At E' is shown another form of pin, which consists of a piece of wire placed in the mold, and the metal cast around it. The pin E', being of wrought-iron, may be bent as required.

An incidental advantage of the filled shelf is, that it requires no bolting or other like attachment to the mantel body, so that it can be placed thereon after the fixing of the body in place, and thus does not prevent access to the rear side of the body while being set; also, the disconnection of the shelf from the body allows any form of shelf to be applied to any form of body to suit the fancy of the purchaser.

I claim as my invention—

As a new article of manufacture, the iron mantel-shelf A B C D, having recess G filled with cement F, anchored by pins E, substantially as set forth.

THOMAS F. BAKER.

Witnesses:

JAS. F. HAINSWORTH,  
SAML. KNIGHT.