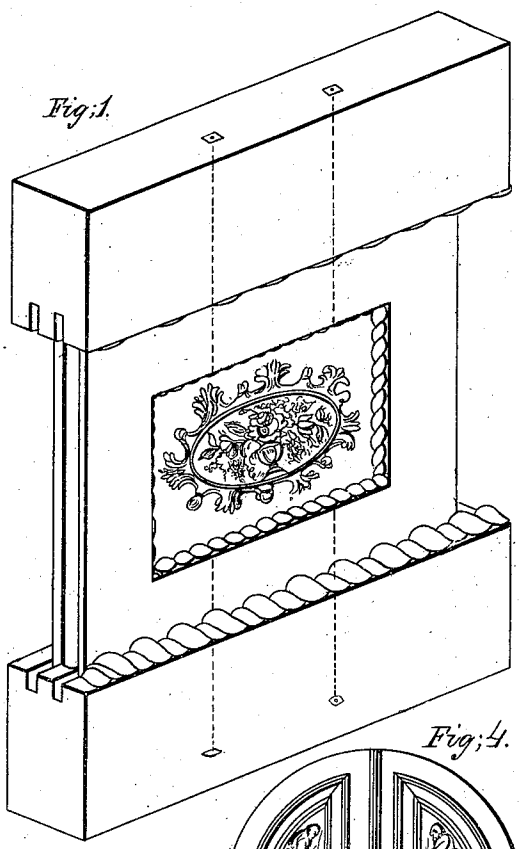
J. SHAEFER.

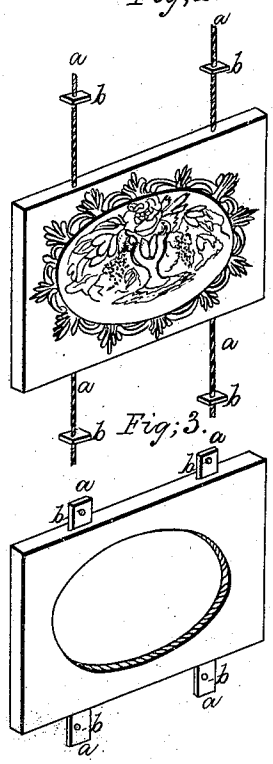
CONSTRUCTING AND ATTACHING IRON PANELS TO WOODEN FRAMES.

No. 36,427. Patented Sept. 9, 1862.

Fig; 1.

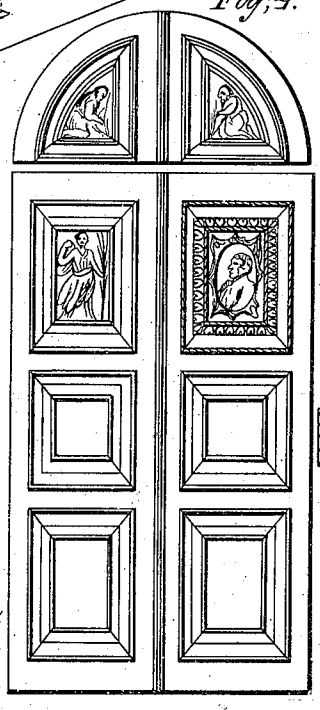


Fig; 2.

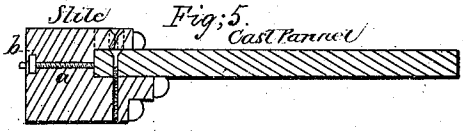


Fig; 3.

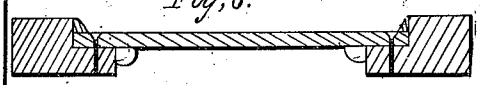
Fig; 4.



Fig; 5.



Fig; 6.



Witnesses.

J. C. Van Camp.

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UNITED STATES PATENT OFFICE.

JOHN SHAEFER, OF LANCASTER, PENNSYLVANIA.

IMPROVEMENT IN CONSTRUCTING AND ATTACHING IRON PANELS TO WOODEN FRAMES.

Specification forming part of Letters Patent No. **36,427**, dated September 9, 1862.

To all whom it may concern:

Be it known that I, JOHN SHAEFER, of Lancaster, in the county of Lancaster and State of Pennsylvania, have invented a new and Improved Mode of Constructing Paneled Doors and Window-Shutters; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the manner of making and inserting plain or ornamented metallic panels into wooden stiles by means of screw-rods for burrs or lugs, with holes in them for fastening with screws on intermediate panels, as the nature of the case may demand.

Figure 1 is a portion of a door with an ornamented cast-iron panel inserted; Fig. 2, the panel detached, showing the long screw-rods *a a* cast into the panel and projecting into the stile, with a burr, *b*, to hold and give additional strength and security to the framing used at top and bottom; Fig. 3, the same with lugs *a* cast on and screw-holes *b* therein. Fig. 4 shows a square or arched door with similar panels inserted adapted to the design of the door desired.

The stiles being grooved for receiving the panels and bored for the rods or mortised for the lugs on the edge of the panels, (affixed in the casting,) the rods and lugs (attached to either edge to effect the purpose) are introduced into their respective hole or mortise and the stiles firmly brought in place and secured by a burr or screw.

The improvement combines beauty with utility, making a much neater and more durable door, especially for front or store doors. The panels in wooden doors are the weakest part and are readily split out or bored, while the heavy frame-work is not so subject to attack. The iron panels in the heavy wooden stiles, with their inserted lugs or screw-rods, prevent all chance of splitting or boring out the panel. They never shrink or give, making a much more substantial and durable job. These ornamented panels may be painted or bronzed.

I am aware that doors have been cast with ornamented panels, and that wooden doors lined with sheet or boiler iron are in use; but I am not aware that wooden frames or stiles having cast-iron or bronze metal panels inserted for dwelling-houses on doors or shutters have ever been used. These panels would be equally ornamental on counters or where panel-work is employed, and may be attached in the various manners shown in Figs. 2, 3, 5, and 6.

In do not claim iron or cast panels used in connection with iron or cast stiles, nor simply the employment of metallic panels in wooden stiles.

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

The manner of making metallic panels with rods or lugs *a* attached and inserting them into wooden stiles, drawn together and held in place by means of burrs or screws *b*, substantially as set forth, for the purpose specified.

JOHN SHAEFER.

Witnesses:
J. C. VAN CAMP,
JACOB STAUFFER.