

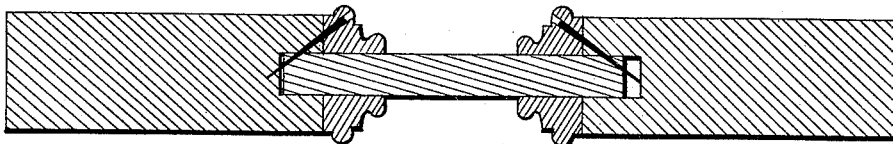
(No Model.)

J. A. SMITH.  
PANELING DOORS OR OTHER WOOD WORK.

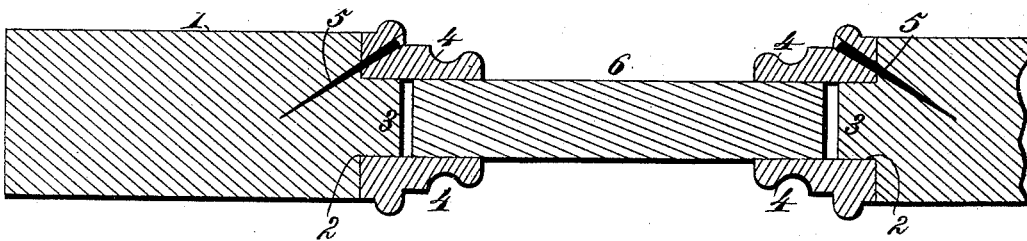
No. 422,844.

Patented Mar. 4, 1890.

*Fig. 1.*



*Fig. 2.*



*Witnesses,*  
*Robert G. Smith,*  
*J. A. Rutherford*

*Inventor,*  
*John A. Smith,*  
*By James L. Norris*  
*Atty.*

# UNITED STATES PATENT OFFICE.

JOHN A. SMITH, OF ROCHESTER, NEW YORK:

## PANELING DOORS OR OTHER WOOD-WORK.

SPECIFICATION forming part of Letters Patent No. 422,844, dated March 4, 1890.

Application filed August 15, 1889. Serial No. 320,824. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. SMITH, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Paneling Doors or other Wood-Work, of which the following is a specification.

This invention relates to paneling wood-work where the panel edges are secured by moldings and nails, as in doors.

The object of my invention is to avoid inserting the panel-edges in grooves cut in the surrounding frame, and to provide a novel construction and means for so securing the panels and moldings that expansion and contraction of the panels will not disturb the moldings, and whereby a new panel can be expeditiously inserted without damaging or separating the parts of the frame, such as the stiles and rails of a door.

The object of my invention I accomplish by a wood-work frame having the parts—such as the stiles of a door—provided with a rabbet at each edge to form a central projecting tongue, and the moldings arranged in such rabbets and secured by nailing to the rabbeted part, with the panel located between the moldings disconnected from the nails and adapted to contract and expand without moving or disturbing the moldings, as will more fully appear hereinafter, reference being made to the accompanying drawings, in which—

Figure 1 is a transverse sectional view of a piece of paneling constructed in the ordinary or well-known manner, and Fig. 2 is a similar view exhibiting my improvement.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring first to Fig. 1 to explain the usual or ordinary method of paneling, where it will be seen that the edges of the panel are inserted in grooves cut in the surrounding frame or stiles and that the moldings are secured to the panels by nails passing through the moldings and panel and entering the grooved part of the frame.

In consequence of the prior construction the contraction or shrinkage of the panel draws the moldings and nails outward from the grooved part of the frame, as indicated at the right-hand side of the frame shown. This is a very objectionable feature, to which all wooden doors having panels and moldings around the panels are subject; and to avoid this objection I provide the frame 1, Fig. 2, which may represent the stiles of a door, with a rabbet 2 at each edge to form a central projecting tongue 3. The moldings 4, of any desired pattern or style, are fashioned to set in the rabbets against the sides of the tongue, where such moldings are secured by glue and by obliquely-driven nails 5, that pass into the solid parts of the stile or frame 1. The edges of the panel 6, of suitable shape, are located between the moldings and have no connection with the nails 5, and while the panel may be glued in position it can contract without tendency to draw out the obliquely-driven nails, whereby the moldings will never be moved or disturbed by contraction or expansion of the panel.

My improvement is especially useful in the construction of doors for buildings; but obviously it is applicable to other paneled wood-work.

Having thus described my invention, what I claim is—

In a paneled door or other wood frame, the combination of the stile or frame having a rabbet along each edge to form a central tongue, a molding nailed in each rabbet, and a panel coextensive with the width of the tongue and having its edges located between the moldings and free from engagement with the moldings and their retaining-nails, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOHN A. SMITH.

Witnesses:

HENRY FISK,  
GEORGE GEYER.