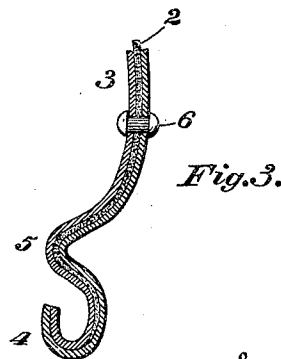
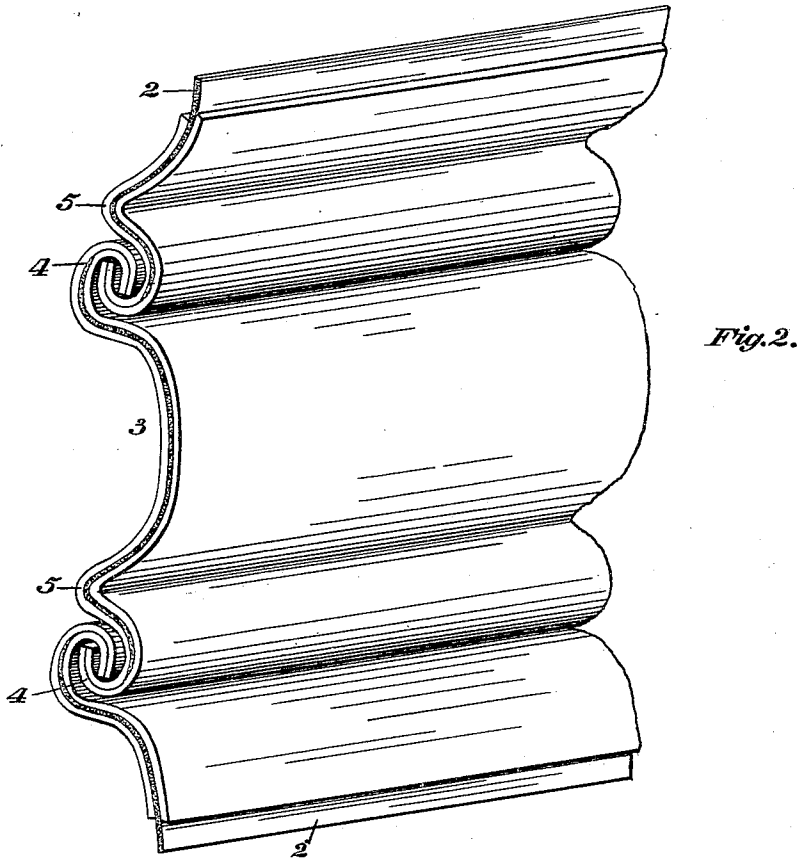


No. 880,701.

PATENTED MAR. 3, 1908.

H. E. VANCE.
FIREPROOF BLIND.
APPLICATION FILED JULY 10, 1903.



Witnesses
Benj. Finckel
Henry C. Will

Inventor
Herman E. Vance
by Finckel & Finckel
his Attorneys

UNITED STATES PATENT OFFICE.

HERMAN E. VANCE, OF COLUMBUS, OHIO.

FIREPROOF BLIND.

No. 880,701.

Specification of Letters Patent.

Patented March 3, 1908.

Application filed July 10, 1903. Serial No. 164,986.

To all whom it may concern:

Be it known that I, HERMAN E. VANCE, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Fireproof Blinds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved construction of slat for the manufacture of fire proof shutters, doors, partitions or the like.

The invention consists in the construction hereinafter described and claimed.

In the accompanying drawings—Figure 1 is a view of the end of the several strips of material before they are rolled together to form the slat; Fig. 2 illustrates in perspective a fraction of a shutter, the entire end of one slat being shown in connection with two fractions, the latter being cut away to disclose details of construction; Fig. 3 shows in sectional view a slat with a rivet connecting and securing together the plies constituting the slat.

In forming the slat I prefer to take two flat strips of sheet metal 1 and 1^a as indicated in Fig. 1 and place between them a strip of asbestos or other heat obstructing material 2 and pass them together through appropriate rolls to bend and press them into the desired form of slat. The strips are preferably bent to form a curved body portion 3, hooks 4 at the opposite edges of the slat and shoulders 5 standing across the mouths of the grooves formed by the hooks. The bending and compression together of the two strips of metal secures the intermediate asbestos strips tightly in place and prevents its displacement under the stress of use or operation of the shutter. Several layers of the asbestos can, of course, be employed, and the asbestos can extend quite to the edges of the hooks rather than nearly thereto as indicated in the views.

The several slats are connected together to form a flexible curtain or shutter by engaging the hooks of a number of slats in the manner indicated in Fig. 2, and the curtain or

shutter will constitute a flexible sheet capable of being rolled up on a roller. The roll made by the curtain need not be of greatly increased size on account of the triple ply character of the slats, because the metal portion can be of lighter gage than that usually employed in single ply metal slats. The function of the asbestos core of the slat is to retard radiation and conduction of heat in case of nearby fire outside the building in which the curtain or blinds are installed.

An endlock to prevent longitudinal slipping of the slats on each other can be riveted to the ends of the slats, or the several plies of the slat can be riveted together as indicated at 6, Fig. 3 without the employment of an endlock where the latter need not be used. There can be several of these rivets 6 placed at any suitable intervals in the slat to insure the permanent intimate connection of the plies of the slat.

What I claim and desire to secure by Letters Patent is:

1. A slat for rolling fire proof blinds and the like comprising two strips or plies of metal and an intermediate ply of asbestos or other heat obstructing material all rolled and bent together longitudinally to form the slat body and engaging hooks, the intermediate ply extending into the hook forming portion.

2. A slat for use in the construction of fire proof blinds and the like, having a body portion and hooks at its edges and comprising two strips or plies of metal bent substantially identically in cross section, and an intermediate strip of asbestos or other heat-obstructing material between said strips and extending into said hooks.

3. A slat for rolling fire proof blinds comprising two strips or plies of metal and an intermediate ply of asbestos or other heat obstructing material all correspondingly rolled and bent together to form the body of the slat and engaging hooks at the edges thereof, the intermediate ply extending into the part forming the engaging hook.

In testimony whereof I affix my signature, in presence of two witnesses.

HERMAN E. VANCE.

Witnesses:

BENJ. FINCKEL,
SAMUEL W. LATHAM.