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PATENTED JULY 31, 1906.

H. E. VANCE.

SLAT FOR CONSTRUCTING FIREPROOF BLINDS.

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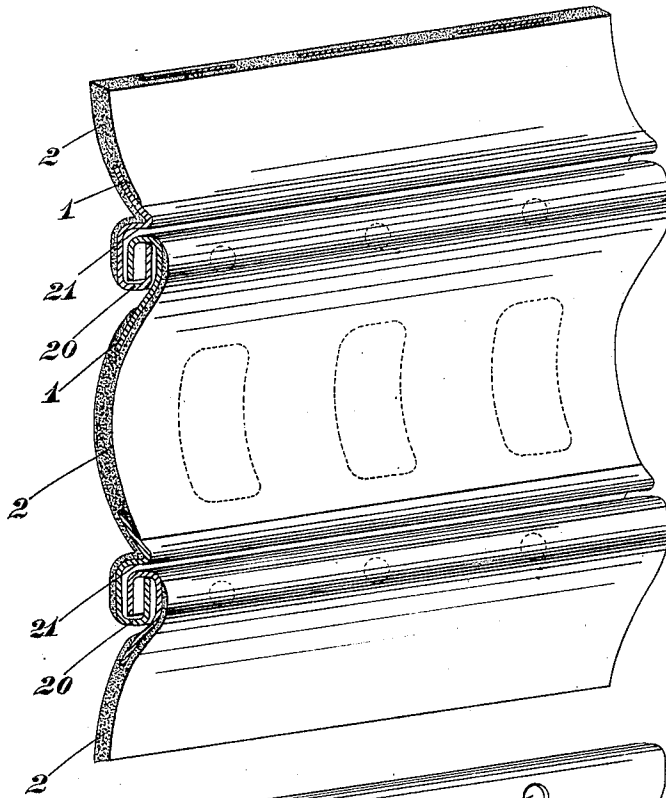


Fig. 1.

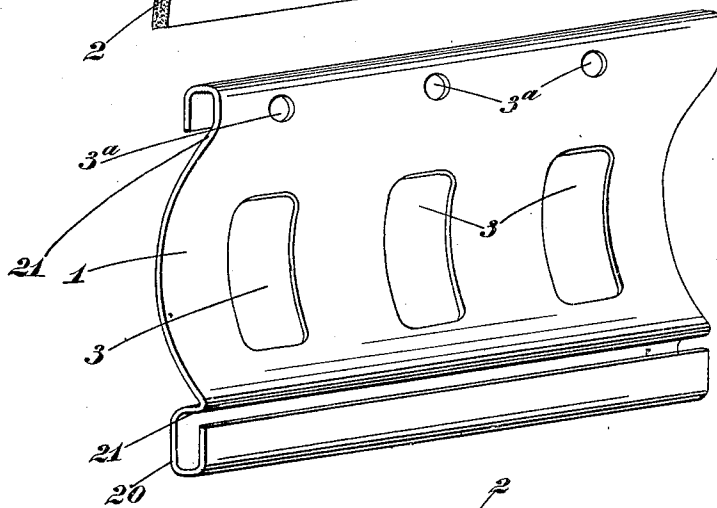


Fig. 2.



Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

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SLAT FOR CONSTRUCTING FIREPROOF BLINDS.

No. 827,677.

Specification of Letters Patent.

Patented July 31, 1906.

Application filed February 1, 1905. Serial No. 243,681.

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 Slats for Constructing 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 a slat for making up rolling shutters, doors, curtains, and the like through which the radiation of heat shall not be so great as through a curtain in which the slats are wholly of metal.

The invention consists in the improved construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a fraction of these slats, showing an embodiment of the invention. Fig. 2 is a perspective view of the metallic portion of a slat, showing how it may be prepared before the fire-resistant sheathing is applied. Fig. 3 is a transverse sectional view showing another way of preparing the slat and sheathing therefor before it is bent to provide the hooking members.

In the several views, 1 designates the metallic portion of the slat. This can be provided at its edges with hooks 20 and shoulders 21, standing across the mouths of the hooks like those illustrated in the United States Letters Patent to W. R. Kinnear, No. 572,014, dated November 24, 1896.

To the body of the slat between the shoulders I apply papier-mâché, asbestos cloth, or any other fire-resisting or heat-retarding material 2 different from that of the material of the metallic portion of the slat adapted to retard or prevent radiation or conduction or convection of heat. The said retardant material in the present instance is extended from the edge of the shoulder portions 21 to and over the backs of the hooks 20. The retardant material can be applied to one or both sides of the slat. It will be observed that the hooks shown are on opposite sides of the general plane of the slat and that when the heat-retardant material is applied to both sides, as shown, said material intersects all horizontal planes passing through the cur-

tain while in the hanging condition, and thus constitutes practically a continuous sheet of fire-resisting material compounded of metal and the retardant material.

The retardant material can be applied in several different ways. It may be pressed or rolled on the metallic strip while in a pulpy or soft state, in which case it may at the same time be pressed into openings or into engagement with spurs or other projections made in or on the body of the slat, as seen in Fig. 2. The character 3 on the drawings designates holes made in the body of the metallic strip, and 3^a smaller holes made in the backs of the hooks to receive the retardant material. The retardant material may be riveted or cemented on or applied either before or after the hooks and shoulders are formed. If applied before the hooks are formed, the retardant material and the metallic strip may first have a cross-section like that seen in Fig. 3 and the edges afterward bent to form the hooks and shoulders.

Some changes can be made without departing from the scope of the invention.

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

1. In a fireproof blind or curtain a metallic slat provided at its edge with a hook and a heat-retardant material applied to its side and over the back of the hook.

2. In a fireproof blind or curtain, a metallic slat provided at its edge with a hook and having a heat-retardant material applied to both sides, the material on one side extending over the back of the hook while the material at the other does not extend to the hook.

3. In a fireproof blind or curtain metallic slats provided at their edges with oppositely-disposed hooks and at one edge with a shoulder and having a heat-retardant material applied to both sides of the slat said retardant material on each side extending to and over the back of the hook.

4. In a fireproof blind or curtain a metallic slat provided at its edge with a hook and a shoulder and in its body portion and hooks with means for engaging a fire-retardant material, and a fire-retardant material extending over a side of the slat and the back of the hook, and engaged by the aforesaid means.

5. In a fireproof blind or curtain a metallic slat provided with hooks on opposite edges

and a shoulder extending across the mouth of one of the hooks, and a fire-retardant material applied to a side of the slat and over the back of the hook.

- 5 6. In a fireproof blind or curtain a metallic slat provided at its edge with a hook and means in the body portion and hook for engaging a fire-retardant material and said fire-

retardant material applied to said body portion and hook and engaged by the same. 10

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

HERMAN E. VANCE.

Witnesses:

U. R. PETERS,

BENJ. FINCKEL.