

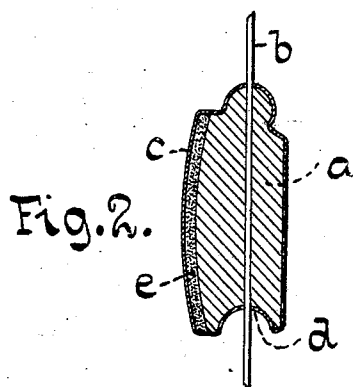
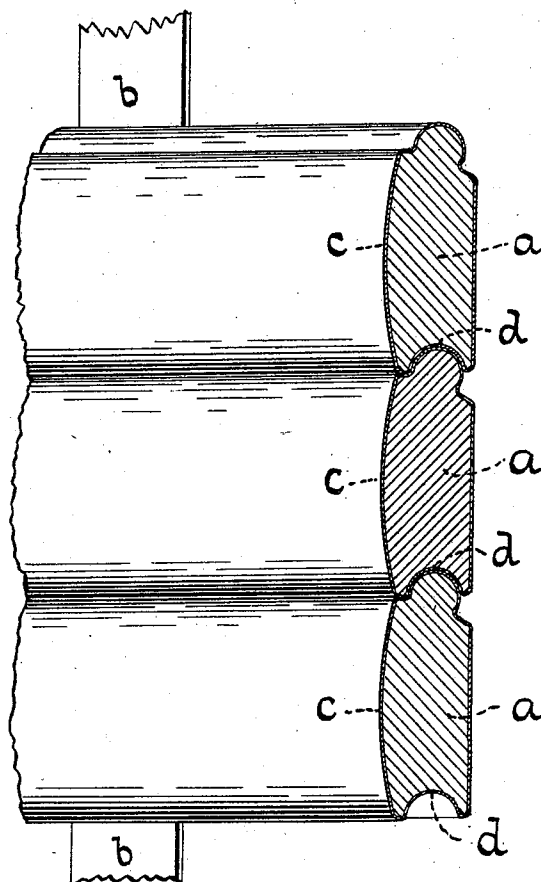
(No Model.)

J. G. WILSON.
ROLLING SHUTTER, &c.

No. 529,771.

Patented Nov. 27, 1894.

Fig.1.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES GODFREY WILSON, OF NEW YORK, N. Y.

ROLLING SHUTTER, &c.

SPECIFICATION forming part of Letters Patent No. 529,771, dated November 27, 1894.

Application filed March 21, 1894. Serial No. 504,487. (No model.)

To all whom it may concern:

Be it known that I, JAMES GODFREY WILSON, a subject of the Queen of Great Britain, and a resident of New York, in the county and State of New York, have invented a new and useful Improvement in Rolling Shutters, &c., of which the following is a specification.

My invention has reference to improvements in rolling or flexible shutters, &c., made usually of closely fitting wooden slats strung on wires, cables, or bands; and it has for its especial object to render such shutters, &c., substantially fire-proof.

With this object in view my invention consists essentially in inclosing the individual slats in metallic casings, and also in providing an additional facing or packing of refractory material at the exposed portions.

The nature of my said invention will best be understood when described in connection with the accompanying drawings, in which—

Figure 1 represents a sectional perspective of a rolling shutter constructed according to my invention. Fig. 2 is a cross-section of a modified construction.

Similar letters of reference designate corresponding parts.

Referring to Fig. 1 of the drawings, the letter *a* designates a series of slats strung on bands *b* in a well known manner to form a rolling or flexible shutter. The wooden core of each slat *a* is inclosed in a sheet metal casing *c* which surrounds it and has its opposite ends meeting, or nearly meeting at point *d*. The sheet metal is drawn closely

and tightly over the wooden core in any usual manner.

In such applications of the shutter where it is not necessary that the back should be protected, the metal casing is made in the form of a sheathing covering the front or exposed portion of the slat only. This construction is adapted for book, bank and other cases, as well as for shutters.

To afford additional protection against fire at the exposed portions of the shutters, &c., a packing *e* (Fig. 2), of asbestos, or other refractory material may be introduced between the core and the metallic casing of each slat. I can also substitute for the wooden slats, slats composed of other substances, such as pulp, compressed asbestos, or mineral wool.

What I claim is—

1. As an improved article of manufacture, a rolling or flexible shutter formed of slats having a core of wood or the like and a sheathing of metal, substantially as specified.

2. As an improved article of manufacture, a rolling or flexible shutter formed of slats having a core of wood or the like, a sheathing of metal, and an interposition of refractory material, substantially as specified.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 16th day of March, 1894.

JAMES GODFREY WILSON.

Witnesses:

C. S. FRETTS,

ARCH M. NICOLL.