(No Model.)

J. FORHAN.

BLIND TENON.

No. 313,859. Patented Mar. 17, 1885.

Fig. 4.

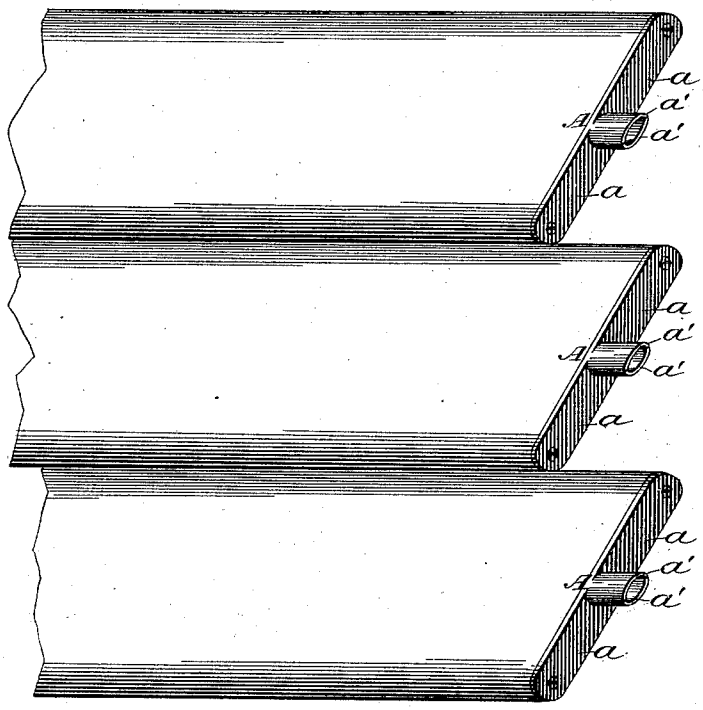


Fig. 3.

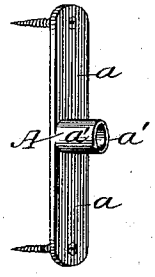


Fig. 2.

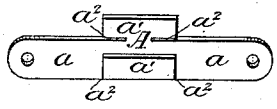
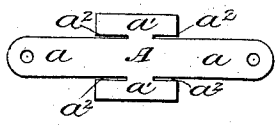


Fig. 1.



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UNITED STATES PATENT OFFICE.

JOHN FORHAN, OF NEW YORK, N. Y.

BLIND-TENON.

SPECIFICATION forming part of Letters Patent No. 313,859, dated March 17, 1885.

Application filed October 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN FORHAN, of the city of New York, in the county and State of New York, and a citizen of the United States of America, have invented a new and useful Improvement in Blind-Tenons, of which the following is a specification, reference being had to the accompanying drawings, forming part of the same, in which—

Figure 1 is a plan view of the blank of which my blind-tenon is formed as it appears after being cut from the sheet metal of which it is made. Fig. 2 is a perspective view of the blank with the sides which form the tenon turned up at right angles to the supporting-plate preparatory to being bent round to form the tenon. Fig. 3 is a view of the device completed, and Fig. 4 is a view of three blind-slats with the tenon applied as it is in use.

My invention relates to blind-tenons, and particularly to such as may be applied to the end of a blind-slat when the wooden tenon originally formed thereon has been broken off; but the slat has not been otherwise injured, when it is frequently desirable to have some cheap and simple device that may be secured on said slat to form a new tenon, and practically it is necessary that such device should be such that it may be applied without taking apart the shutter-frame. In order that it should be so applicable it is necessary that it be so formed that the tenon may be first placed in its appropriate mortise in the shutter-stile and the tenon then secured to the slat; and my said invention consists in a blind tenon and plate for attachment to the end of the blind-slat formed of a single piece of sheet metal, as described and claimed.

A is the blank, which may be cut or stamped from a suitable piece of sheet metal. I prefer to use heavy tinned plate; and it consists of the supporting-plate *a* and wings *a' a'*, which are intended to form the tenon. In order to enable these wings to be conveniently formed into a tenon they are severed from the plate from their side edges inward a portion, preferably about one-third of their width, as at a^2, leaving the middle third unsevered. This severing may be done by the same die which cuts out the blank. These wings are then turned up until they are about at right angles to the supporting-plate *a*, as shown in Fig. 2, their lower cut edges, where severed from the plate, being brought up to a level with the surface of said plate. They are then together bent round inward to a cylindrical form, as shown in Fig. 3, being preferably so proportioned that when so bent their side edges will meet and form a complete cylinder. Their depth is such as to form a tenon of sufficient length to be held by the walls of the mortise into which said tenon is to be placed, usually about one-fourth of an inch, and the plate *a* is usually made about one and three-fourths inch long, that when the tenon is inserted in the mortise in the shutter-stile, and the slat and plate turned at right angles thereto, the ends of the plate will extend beyond the stile, and the nails or screws may be inserted into the slat through holes made in the ends of the plate.

Instead of first turning the wings *a' a'* up at right angles to the plate *a* and then bending them so as to form arcs of a circle, they may be first bent round and then turned up to their place; but I prefer the first order of proceeding.

This blind-tenon may be painted a color similar to that of the slat to which it is to be attached, and forms a neat, cheap, serviceable, and readily-applied device for repairing blinds, while it is so thin that it is not noticeable when secured to the slat.

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

1. A sheet-metal blank composed of the supporting-plate *a*, provided with the wings *a' a'*, severed from the said plate *a* from their side edges inward for a portion of their width, and adapted to be formed into a blind-tenon, as and for the purpose specified.

2. As a new article of manufacture, a blind-tenon composed of the supporting-plate *a* and wings *a' a'*, formed of a single piece of sheet metal, as described, and for the purpose specified.

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Witnesses:
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