(No Model.)

A. M. & R. J. SANDERS.

METALLIC TENON.

No. 487,778. Patented Dec. 13, 1892.

Fig. 1.

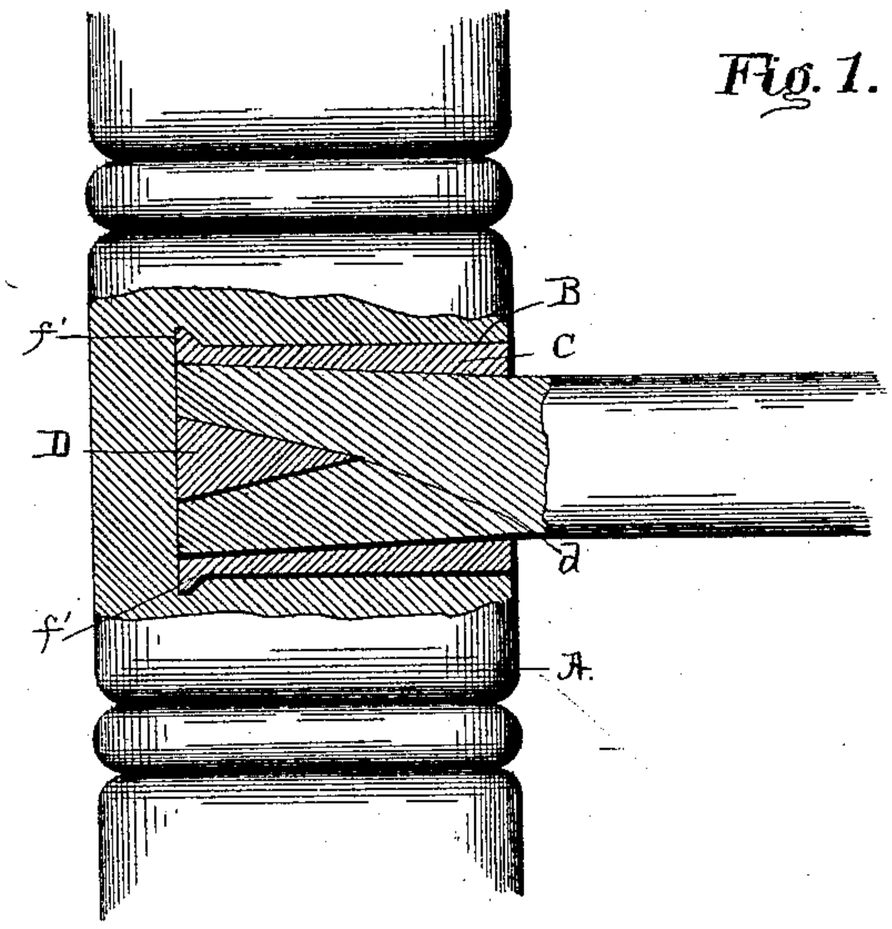


Fig. 2.

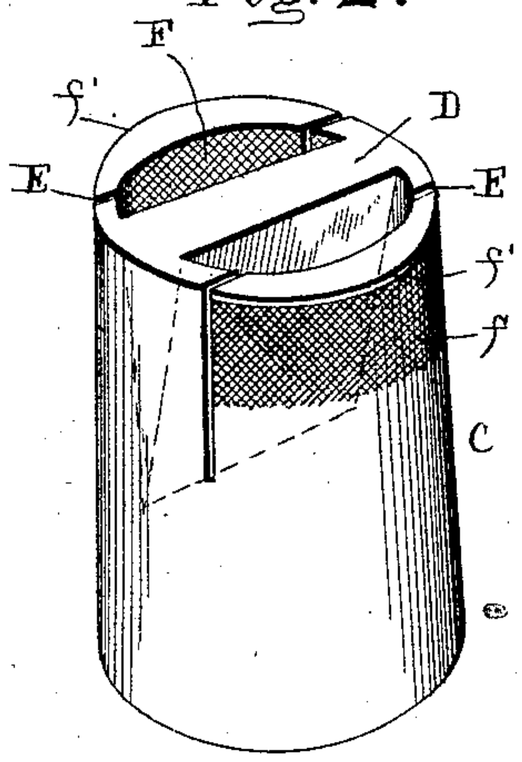
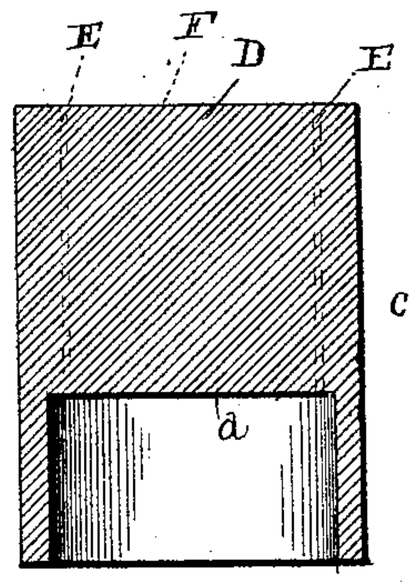


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ADOLPHUS M. SANDERS AND ROSCOE J. SANDERS, OF REEDSBURG, WISCONSIN.

METALLIC TENON.

SPECIFICATION forming part of Letters Patent No. 487,778, dated December 13, 1892.

Application filed November 27, 1891. Serial No. 413,305. (No model.)

To all whom it may concern:

Be it known that we, ADOLPHUS M. SANDERS and ROSCOE J. SANDERS, citizens of the United States, residing at Reedsburg, in the county of Sauk and State of Wisconsin, have invented a new and useful Metallic Tenon, of which the following is a specification.

This invention relates to tenoning; and it has for its object a metallic fastener for securing tenons in their mortises in all kinds of wood-joining—such as securing the rounds of chairs in the legs of the same and joining the fellies of wheels together—and, as stated, in all kinds of splices and joints to which the invention may be applicable, and to this end to provide a fastener which will not only securely wedge the tenons within the mortise, but also will effectually prevent the same from withdrawal.

With these and many other objects in view, as the nature of the invention is fully understood, the same consists in the tenon-fastener constructed in the novel manner hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a detail sectional view of the leg of a chair having a round secured therein by means of a tenon socket or fastener constructed in accordance with our invention. Fig. 2 is a detail in perspective of the fastener. Fig. 3 is a longitudinal sectional view of the same.

Referring to the accompanying drawings, A represents the leg of a chair provided with an ordinary mortise B, that is of a size to snugly receive the tapering metallic tenon-fastener C. The said tenon-fastener comprises a short tube or sleeve adapted to be inserted in said mortise in whatever connection the same is used and is provided at its bottom or innermost end with the integral wedge D, the flat outer end of which is flush with the inner edge of said tube, and the said wedge extends transversely across said tube and projects inwardly to the point *d* thereof, which is located a suitable distance within the tube to give a sufficient wedge. The inner end of said tube is provided with longitudinally-disposed slits E on each side of the central transverse wedge, thus forming spring-tongues F, provided with inner and outer serrated or roughened faces *f* and the outwardly-projecting ribs or flanges *f'*, formed upon the extreme outer ends of the same. It can be readily seen as the tenon is driven within the tube located within the mortise that the end of the same is split upon the central wedge and is forced to either side thereof, thereby pressing the spring-tongues F outwardly and thus forces the serrated faces and projecting ribs thereof into the sides of the mortise, thus securely fastening both the tube and tenon within the same and effectively preventing loosening or withdrawal. The said fastener is materially tapered toward its inner wedge end, in order that the tenon entering therein may be wedged more securely in forcing the spring-tongues into the side of the mortise, while at the same time the said tenon forces itself into the inner serrated faces of said tongue, as will be readily apparent.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In a tenon-fastener, a tapering tubular sleeve adapted to be inserted in a mortise and receive the tenon, provided at its innermost end with an integral sharpened wedge extending transversely across the same and projecting within the sleeve, and with spring-tongues on each side of said wedge, substantially as set forth.

2. In a metallic tenon-fastener, a tapering tubular sleeve adapted to be inserted in a mortise and receive the tenon, provided with an integral sharpened wedge located at its innermost end and extending transversely across the same and projecting therein, and spring-tongues on each side of said wedge provided with inner and outer serrated faces, and laterally-projecting ribs or flanges adapted to be forced by the split tenon into the sides of the mortise, substantially at set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

ADOLPHUS M. SANDERS.
ROSCOE J. SANDERS.

Witnesses:
ARCHIE R. PRIEST,
JAMES A. STONE.