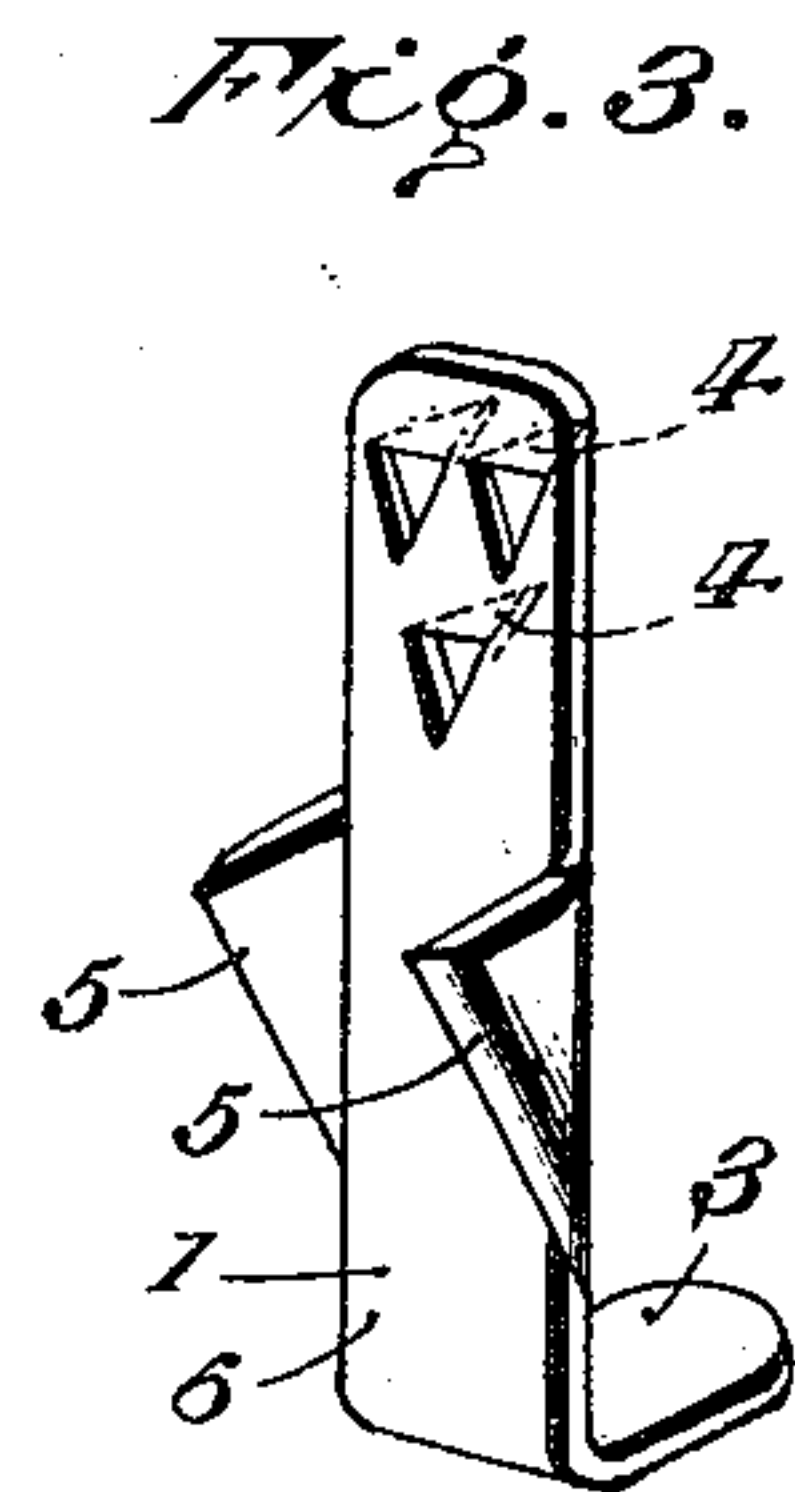
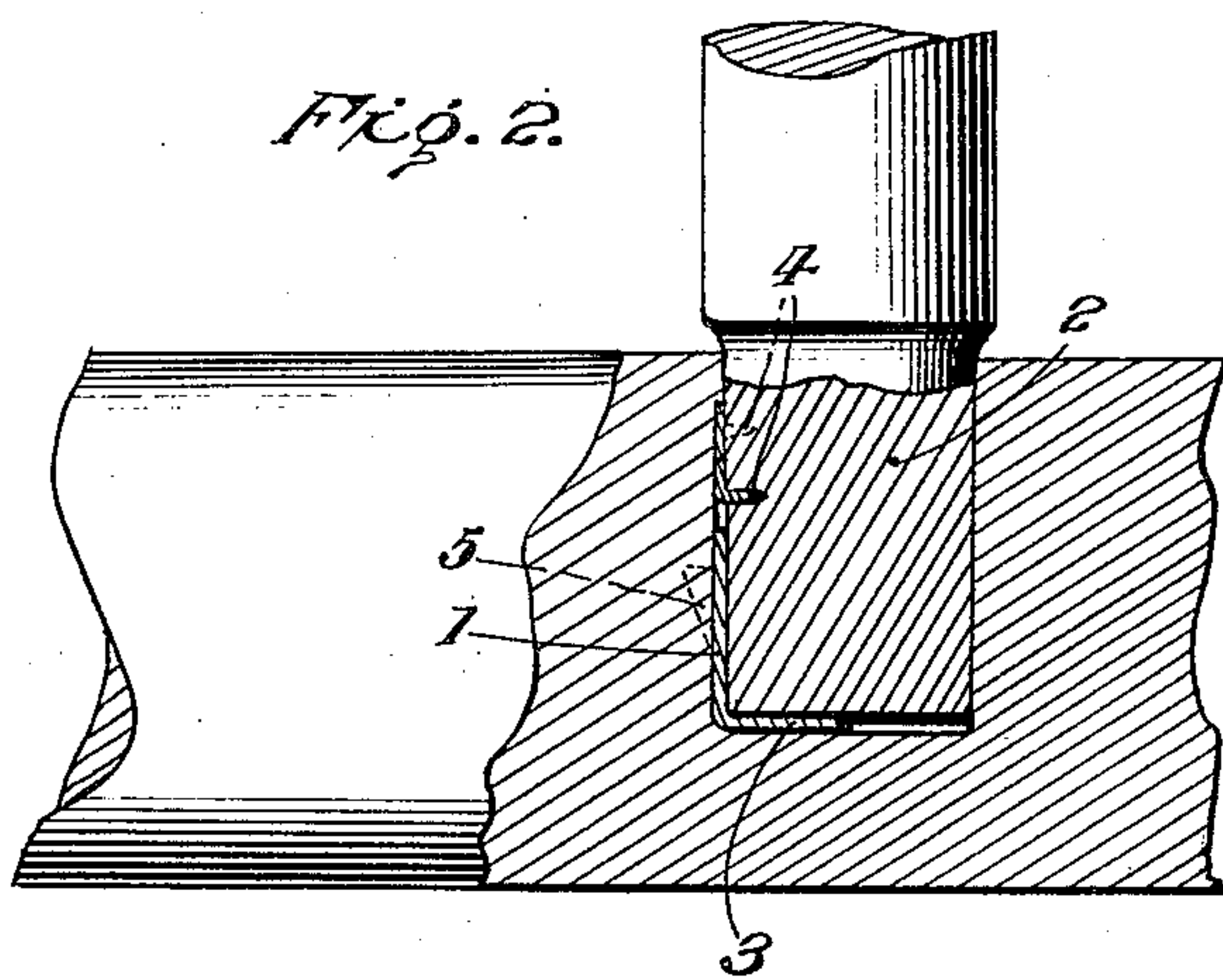
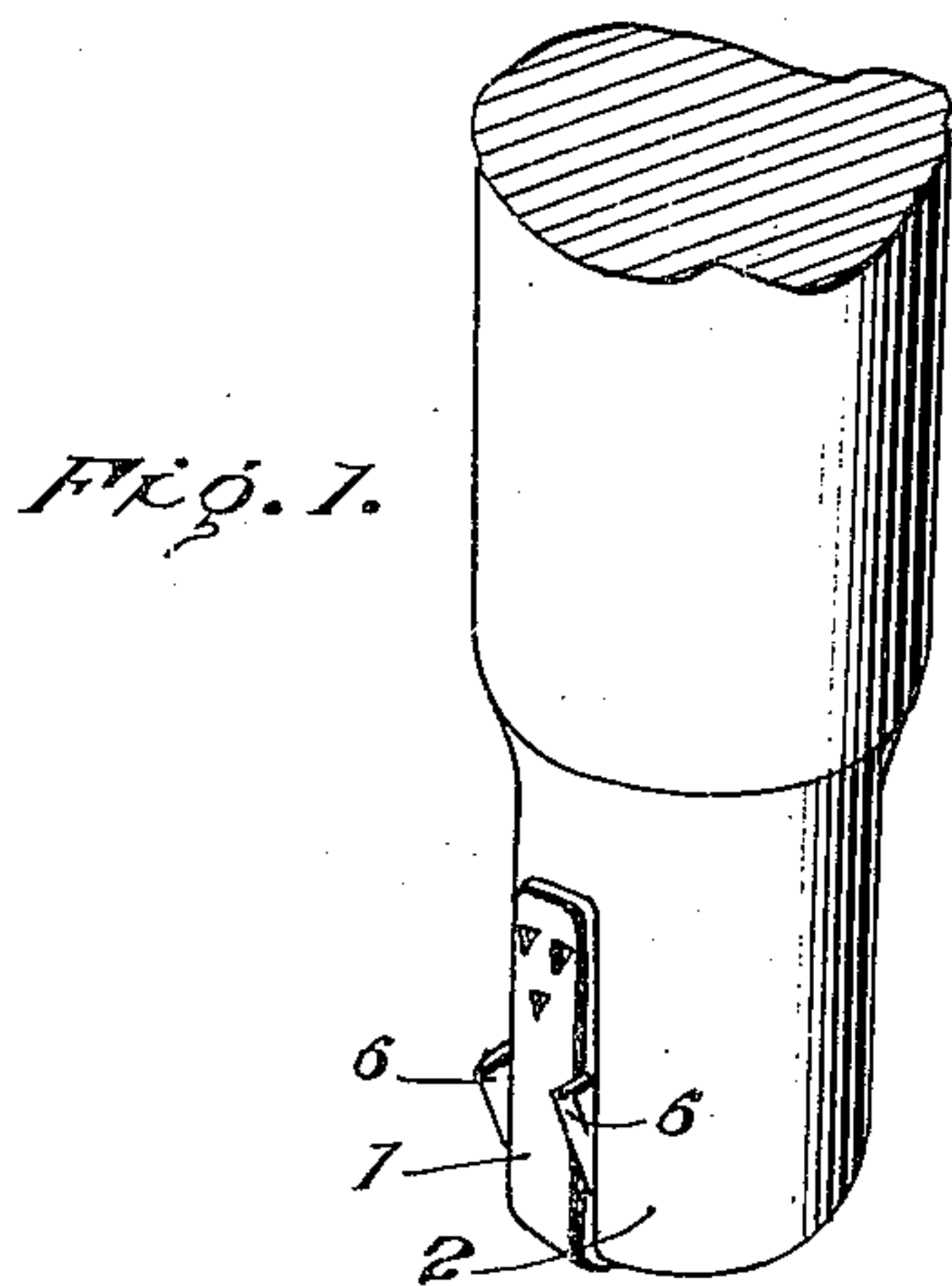


J. H. WRAY.  
TENON JOINT FASTENER.  
APPLICATION FILED JULY 15, 1907.

903,529.

Patented Nov. 10, 1908.



Inventor

John H. Wray,

Witnesses

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By

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# UNITED STATES PATENT OFFICE.

JOHN H. WRAY, OF DANVILLE, PENNSYLVANIA.

## TENON-JOINT FASTENER.

No. 903,529.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed July 15, 1907. Serial No. 383,821.

*To all whom it may concern:*

Be it known that I, JOHN H. WRAY, citizen of the United States, residing at Danville, in the county of Montour and State of Pennsylvania, have invented certain new and useful Improvements in Tenon-Joint Fasteners, of which the following is a specification.

The present invention relates to a novel fastening means for tenon joints whereby the tenons are rigidly locked in position within the sockets.

The invention contemplates a fastener of this character which can be readily stamped from a single piece of sheet material and which can be easily applied to the tenon when driving the same into position within the socket.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view showing the fastener applied to a tenon previous to driving the same within the socket. Fig. 2 is a sectional view through a joint having the fastener applied thereto. Fig. 3 is a detail view of the fastener detached.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the present embodiment of the invention the numeral 1 designates an elongated plate designed to fit against one side of the tenon 2 and provided at one end with the laterally extending flange 3 designed to project over the extremity of the tenon. A plurality of prongs 4 are stamped from the plate 1 and pressed outwardly upon one side thereof so as to bite into and engage the tenon. A pair of teeth 5 project outwardly from the opposite longitudinal edges of the plate 1 at right angles to the plane of the said plate and are designed to embed themselves in the walls of

the socket as clearly indicated in Fig. 2 and thereby rigidly lock the tenon in position within the socket without the necessity of employing any glue or similar adhesive material which is more or less objectionable since the bond produced thereby deteriorates rapidly with age. In the exact formation of the teeth 5 it will be observed that the inner edges thereof are inclined outwardly and sharpened as indicated at 6 whereby when the tenon is driven in position within the socket the teeth are enabled to readily embed themselves in the walls of the socket.

In applying the fastener it is merely necessary to place the plate 1 against the tenon with the flange 3 projecting over the extremity of the same and to then drive the tenon into the socket in the usual manner. This driving operation causes the prongs 4 to bite into the tenon and the teeth 5 to embed themselves in the walls of the socket, a strong interlocking connection being thereby produced between the tenon and socket which prevents the two members from pulling apart.

Having thus described the invention, what is claimed as new is:

A new article of manufacture, a tenon fastener consisting of an elongated plate provided at one end with a lateral flange to extend over the extremity of the tenon, prongs pressed from the opposite end portion of the plate and extending from the same side thereof as the terminal flange, and a tooth projected from each longitudinal edge of the plate in an opposite direction from the terminal flange and said prongs thereof, said teeth being at a right angle to the plate and located about midway thereof and having their front edges formed on a long slant and beveled on their outer sides and having their rear edges abrupt.

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

JOHN H. WRAY. [L. S.]

Witnesses:

WILLIAM L. SIDLER,  
ALEXANDER H. GRONE.