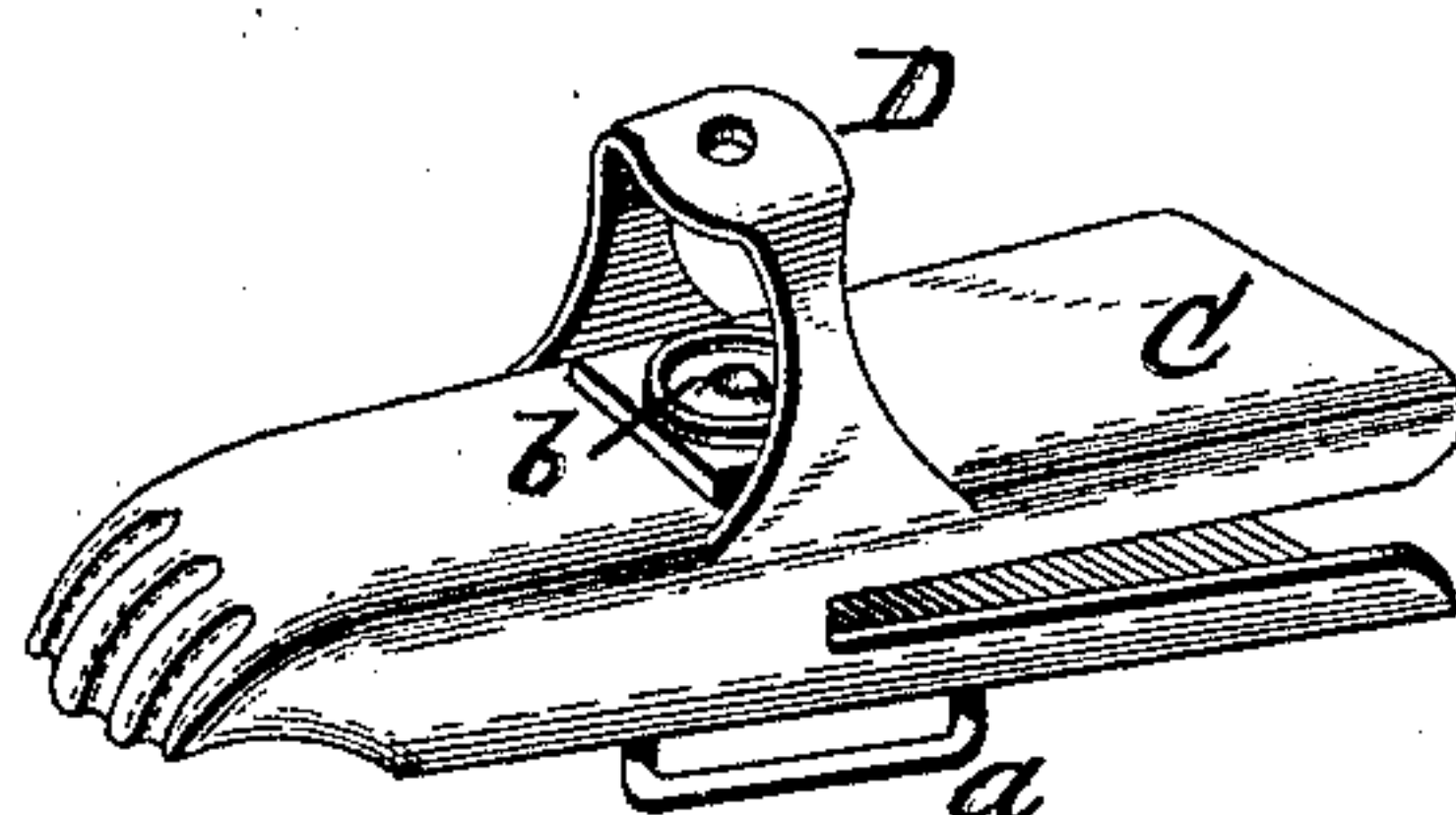
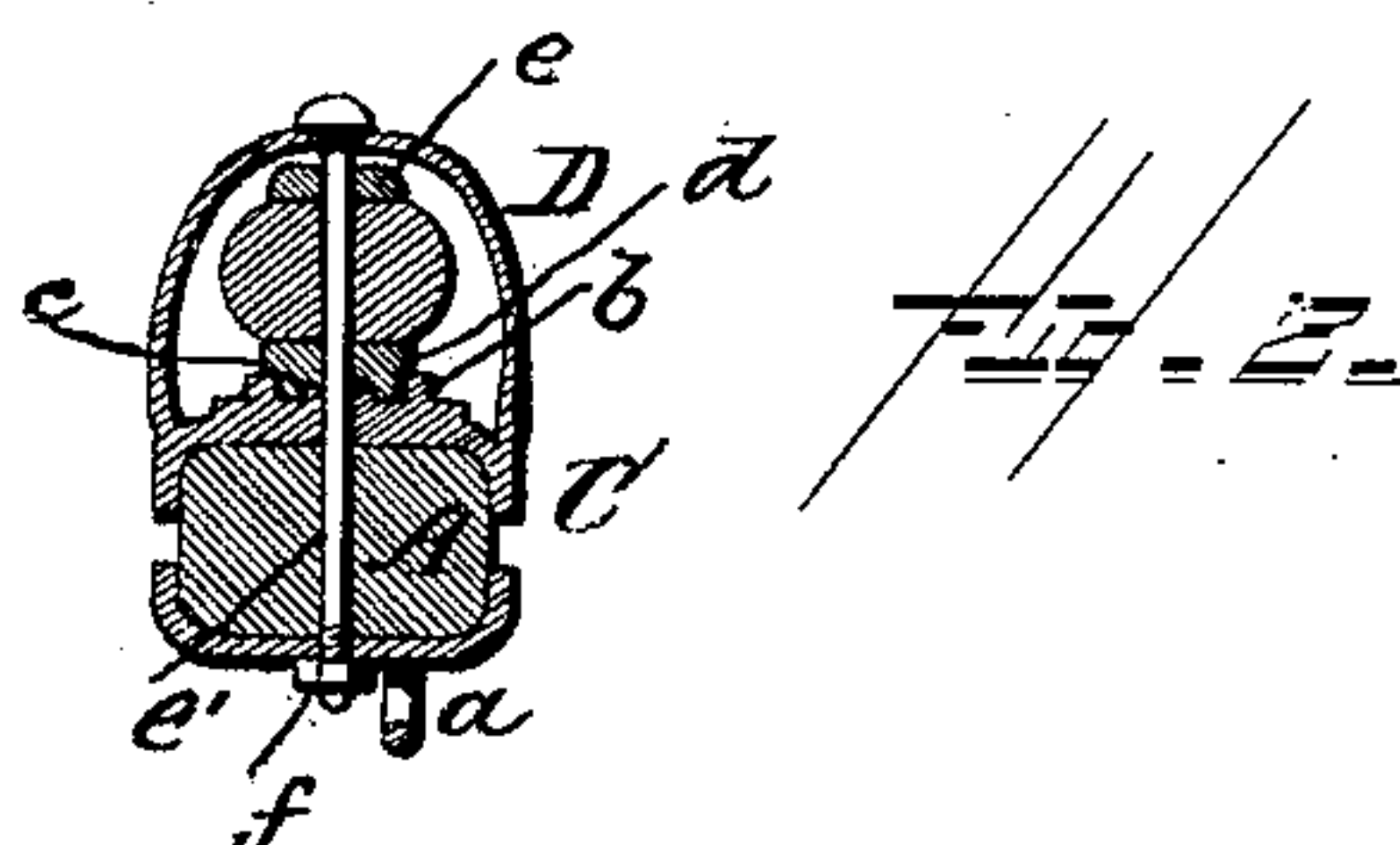
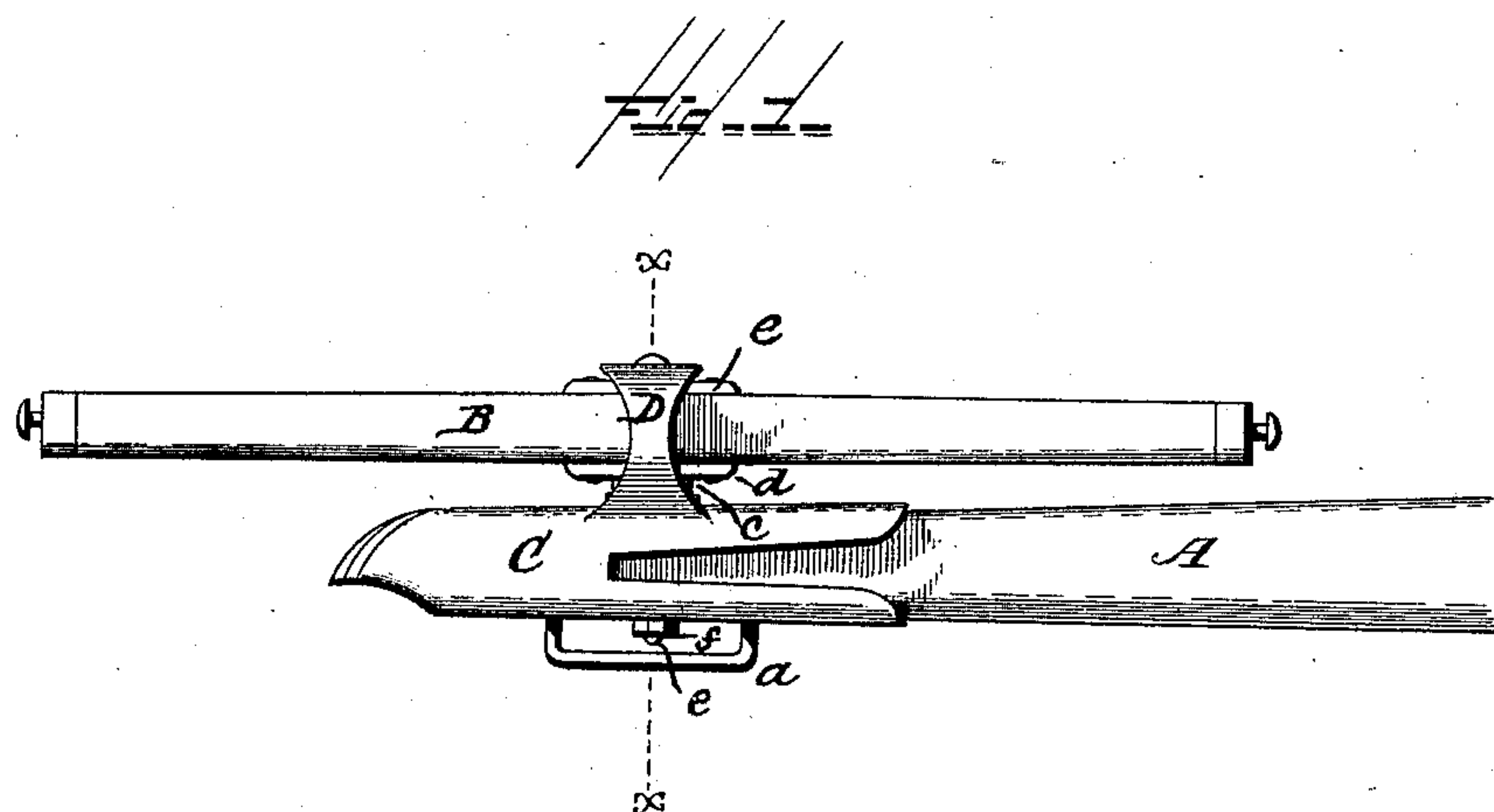


(No Model.)

S. MARTIN.  
DOUBLETREE ATTACHMENT.

No. 410,910.

Patented Sept. 10, 1889.



Witnesses

*Albert Speiden*  
*Wm B. Godding*

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*Stephen Martin*

By *his* Attorney

*Chas H Fowler*

# UNITED STATES PATENT OFFICE.

STEPHEN MARTIN, OF PEORIA, ILLINOIS.

## DOUBLETREE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 410,910, dated September 10, 1889.

Application filed April 26, 1889. Serial No. 308,671. (No model.)

*To all whom it may concern:*

Be it known that I, STEPHEN MARTIN, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Doubletree Attachments; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side elevation of my invention; Fig. 2, a cross-section thereof, taken on line *xx* of Fig. 1; Fig. 3, a perspective view in detail of the socket-cap.

The present invention has for its object to provide a simple and effective means for attaching singletrees to the ends of doubletrees, whereby strength and durability are attained as well as providing a firm and secure connection between the two; and the invention consists in the details of construction, substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the end of a doubletree and B the singletree connected thereto in a manner hereinafter described.

C represents the socket-cap, of metal, and of such shape as to fit snugly over the end of the doubletree and to protect the wood thereof, and is cast or otherwise provided upon its upper side with a yoke D and upon its under side with a loop *a* for the stay-strap. The socket-cap may be of any suitable form and construction so long as it will completely cover and shield the extremity or end of the doubletree.

The upper side of the socket-cap C is cast

with a grooved seat *b* to receive the annular flange *c*, depending from a plate *d*, secured to the under side of the singletree B, a similar plate *e* without the flange being secured in like manner to the upper side thereof.

When the singletree is passed through the yoke D and the flange of the plate *d* rests in the grooved seat *b*, as shown more clearly in Fig. 2, a headed bolt or rod *e'* is provided which securely holds the singletree to the socket-cap and yoke and the cap to the doubletree. The headed bolt or rod *e*, as will be seen, passes through both the plates secured to the sides of the singletree as well as the singletree itself, and also the yoke, socket-cap, and doubletree, and is held in place by means of a nut *f* engaging the screw-threaded end of the bolt or rod.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The socket-cap C, closed at its outer end to protect the end of the doubletree over which it is secured, said cap having a yoke D, the sides of which join the sides of the cap, and the grooved seat *b*, in combination with the plates *d e*, connected to the singletree, the former having an annular flange to engage with the grooved seat, and a central bolt to secure the socket-cap upon the doubletree and the singletree thereto, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

STEPHEN MARTIN.

Witnesses:

L. V. SNYDER,  
C. A. LUKENS.