

(No Model.)

B. SMITH.  
BALE TIE.

No. 300,402.

Patented June 17, 1884.

Fig. 1

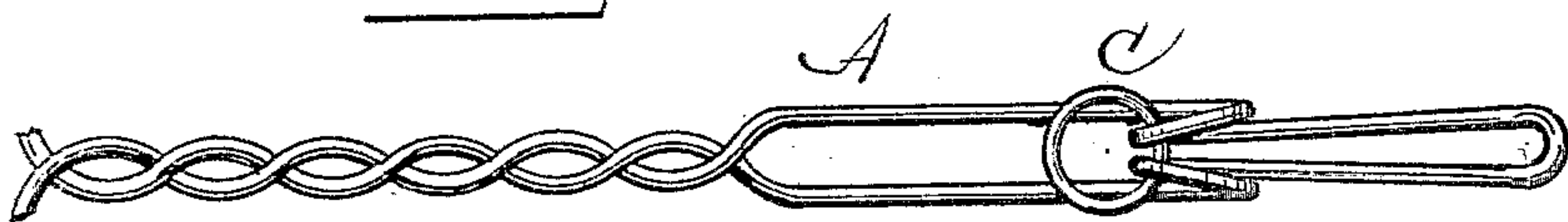
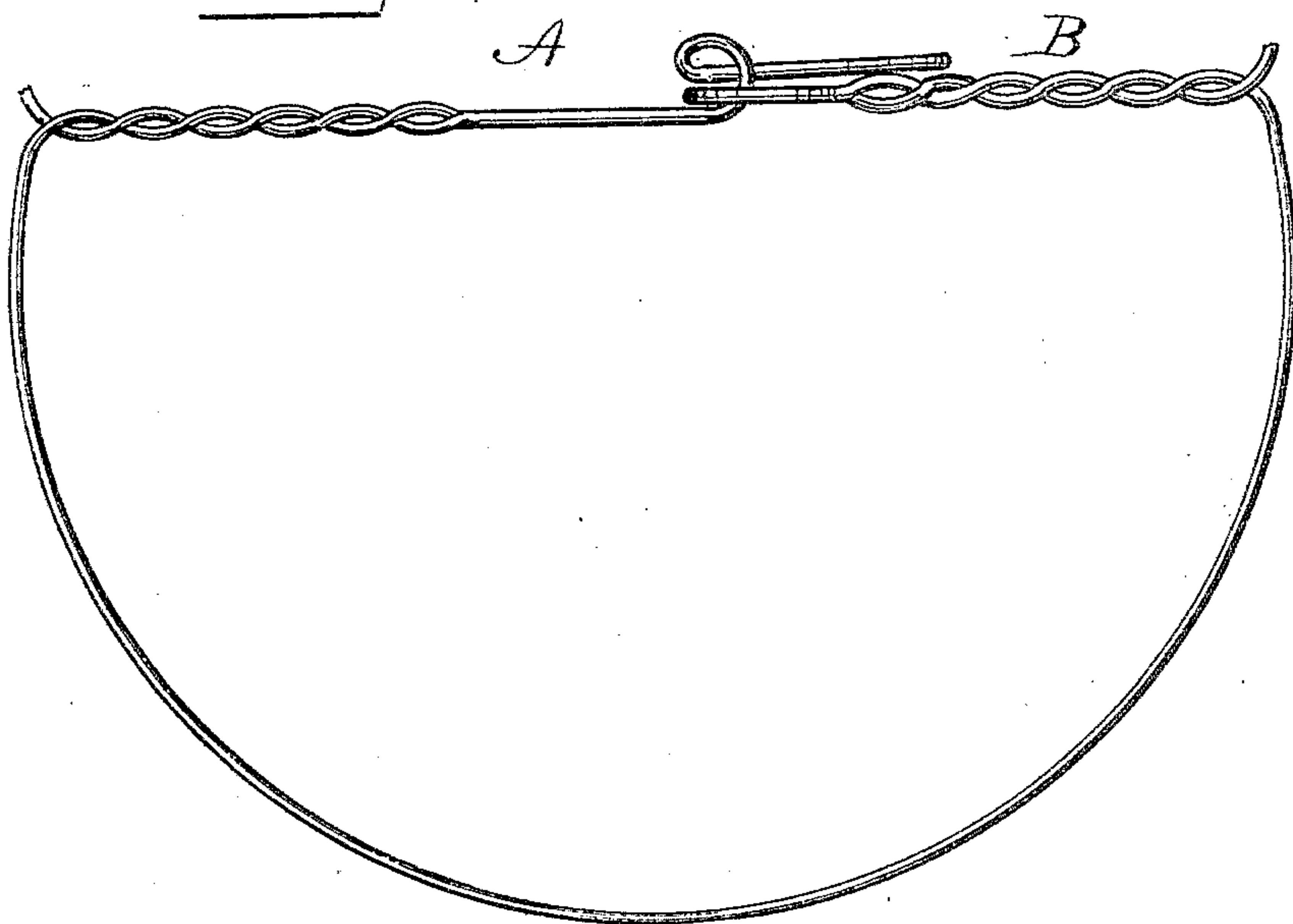


Fig. 2



WITNESSES  
*John Trautman*  
*Leopold Leibold*

INVENTOR  
*Benjamin Smith*  
*By B. Pickering*  
*His Atty.*

# UNITED STATES PATENT OFFICE.

BENJAMIN SMITH, OF DAYTON, OHIO, ASSIGNOR OF ONE-HALF TO WILLIAM J. McCAUSLAND AND ROBERT BARNETT, BOTH OF SAME PLACE.

## BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 300,402, dated June 17, 1884.

Application filed February 1, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, BENJAMIN SMITH, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a certain new and useful Improvement in Bale-Ties; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in bale-ties formed of a single piece of wire, with an eye at one end and a protected hook at the other, the object being to so form a hook that the same will not yield under tension.

The construction is illustrated in the accompanying drawings, in which Figure I is a top view of the hook. Fig. II is a side view of the bale-tie.

The novel features of the invention are that of a rear projection from the point of the hook and the insertion of the ring C in the curved point of the hook to stiffen the same. The ring is not an essential feature of the invention, but in some cases, it is thought, would prove advantageous. B is a circular eye, formed near the end of the wire, the free end being twisted around to make the holding of the eye secure. The hook A is formed by bending the wire upon itself, then bending the folded end in a semicircular form—that of a hook—thus leaving this end between the

semicircular coils, with the said end extending outwardly. A distance from the point of the hook a twist is given to fasten the end, and the hook is complete. The ring C may be inserted in the curve of the hook, as illustrated at Fig. I; but the same will be generally dispensed with. The effect of the rear extension from the point of the hook is to strengthen the same, so that the hook will bear a much greater strain than if not thus constructed. As the strain comes upon the hook, any yielding thereof causes the projection to bear on the opposite end or eye of the bale-tie, and thereby serves to stay the hook when subjected to great strain.

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

1. A wire hook for a bale-tie, with a rear extension to stay the curved end of said hook, substantially as set forth.

2. A wire hook for a bale-tie, with a rear extension and an interlocked ring in said hook, substantially as set forth.

3. As a new article of manufacture, a bale-tie with eye to engage the hook of the same, having a rear extension to bear upon said eye, substantially as shown and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

BENJAMIN SMITH.

Witnesses:

B. PICKERING,  
ROBERT BARNETT.