

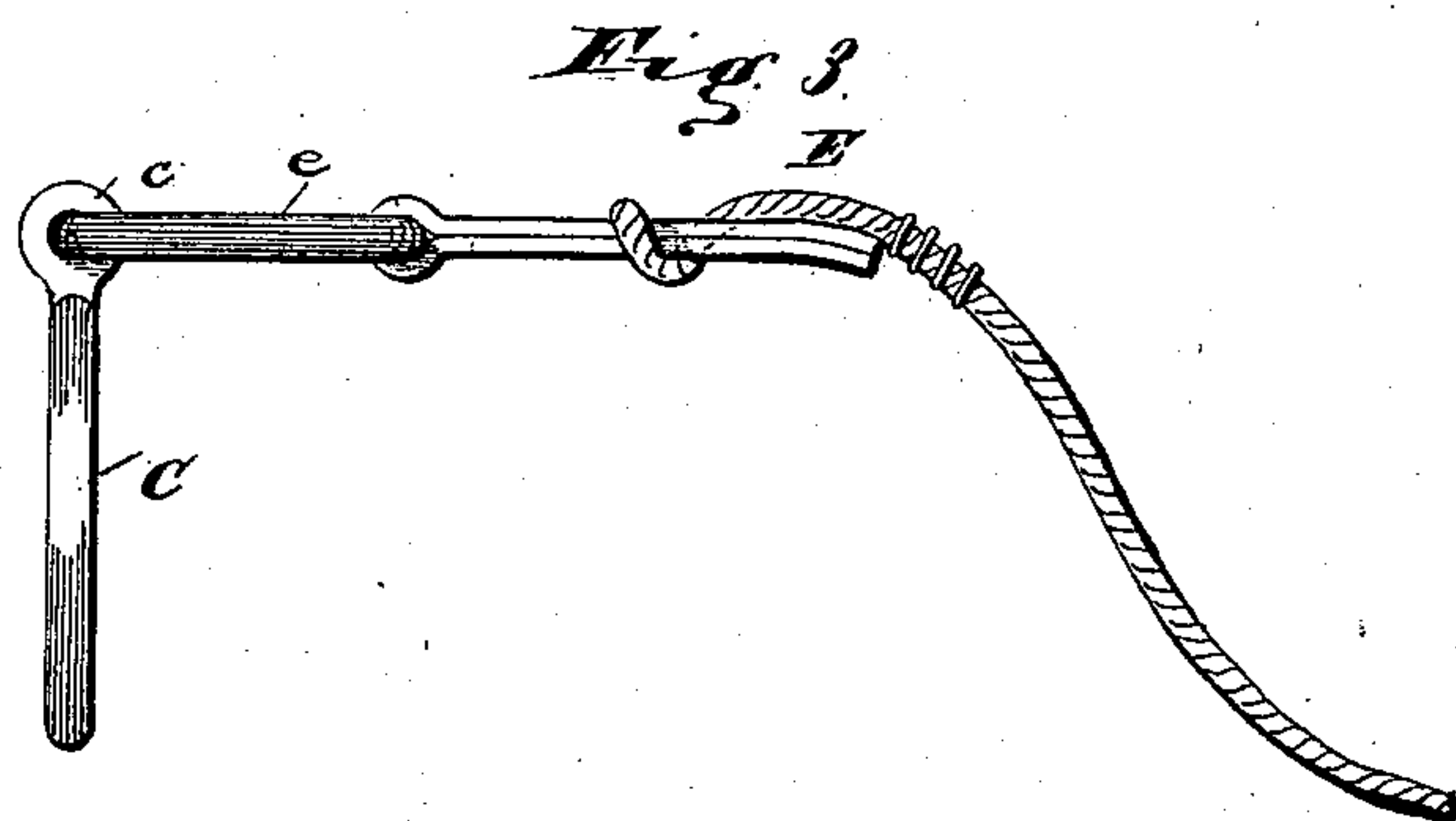
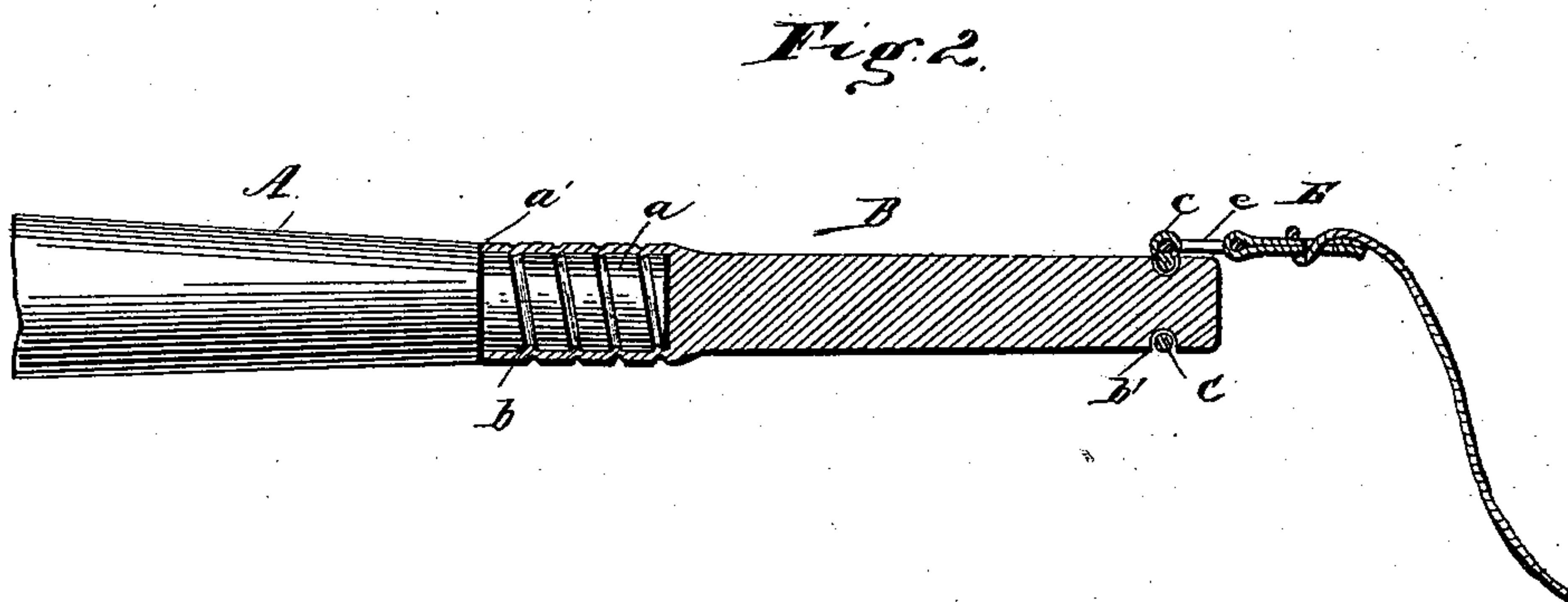
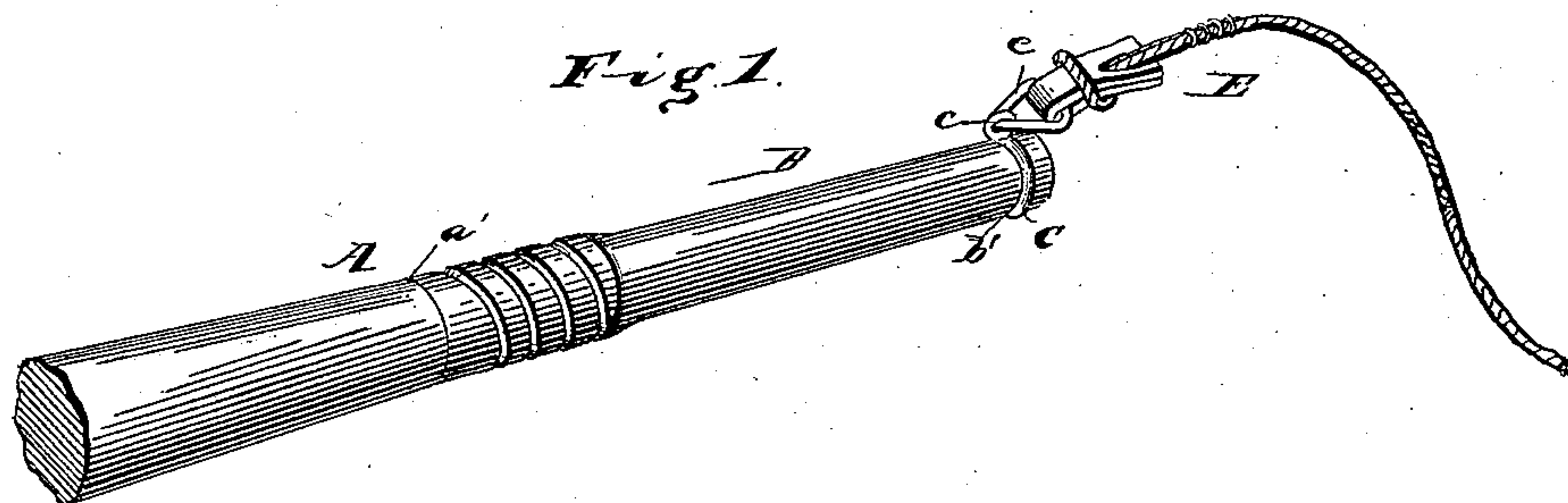
(No Model.)

E. B. KNAPP.

WHIP.

No. 364,023.

Patented May 31, 1887.



Witnesses
Geo. Thayer.
E. G. Siggers

Inventor
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UNITED STATES PATENT OFFICE.

EDMOND B. KNAPP, OF SAN JACINTO, CALIFORNIA.

WHIP.

SPECIFICATION forming part of Letters Patent No. 364,023, dated May 31, 1887.

Application filed March 23, 1887. Serial No. 232,152. (No model.)

To all whom it may concern:

Be it known that I, EDMOND B. KNAPP, a citizen of the United States, residing at San Jacinto, in the county of San Diego and State of California, have invented a new and useful Improvement in Whips, of which the following is a specification.

The invention relates to improvements in whips, and has especial reference to the means of attaching the lash to the stock, the object being to make the attachment of said parts simple, strong, cheap, and durable; and it consists in the construction, arrangement, and combination of the end of the stock, a metallic thimble fitting thereon, and a universal joint connecting the lash and said thimble, as hereinafter described, illustrated in the drawings, and pointed out in the claims hereto appended.

In the accompanying drawings, Figure 1 represents a perspective view of the invention. Fig. 2 represents a central longitudinal section through the thimble and end of stock. Fig. 3 is a detail view.

Referring to the drawings by letter, A designates a whip stock having a tapped or threaded end, *a*, and a circumferential shoulder, *a'*, at the inner end of the threaded part.

B is the metallic thimble, made preferably of malleable iron, and having a threaded socket, *b*, to engage the threaded end of the stock, the inner end of the thimble resting when in place upon the shoulder *a'*, so as to leave no ridge at their point of union. The portion of the thimble outward from the socket is solid, and has near its end the circumferential groove *b'*, for the reception of a ring, C, revolving in said groove, provided on its edge with a small ring or loop, *c*, and forming part of a universal joint, the other part of which is formed by the triangular closed link *e*, which passes through the loop *c*, and to which the meeting end of the lash E is attached, as shown in the drawings. A strap-loop, *e'*, is inserted in the triangular loop *e*, and has an aperture formed therethrough.

The lash E is laid across the top of the loop *e'*, and the two ends thereof are then drawn up through the aperture in the said loops *e'* and secured, as shown in Fig. 1. By means of this form of connection of the lash a more flexible

connection is obtained and wear upon the securing end of the lash is obviated.

The thimble is exceedingly cheap, strong, and durable when made of malleable iron, as described, and makes a very strong and secure union with the stock.

The lash has perfect freedom of motion, as it turns up and down on the link *e* and laterally with the ring C. When the thimble is on the stock, it is prevented from accidentally unscrewing by driving a pin through it into the stock.

Having thus described my invention, I claim—

1. The combination, with the end of a whip, of a metallic ring, C, having an eye, *c*, seated and having movement in a groove formed in the end of the whip, the link *e*, secured in the eye *c*, and the loop *e'*, to which the lash is secured, whereby the said lash is allowed to turn around the whip end without becoming entangled, substantially as described.

2. In a whip, the combination of the stock, a thimble secured to the end thereof and provided with a circumferential groove near its end, the ring revolving in said groove, the lash, and the link secured to the end of the lash and passing through a loop on the edge of the ring, so as to turn up and down on the latter, substantially as specified.

3. In a whip, the stock, threaded at its smaller end and having a circumferential shoulder adjacent to its threaded part, and the thimble provided with an internally-threaded socket to engage the threaded end of the stock down to said shoulder, and provided with a circumferential groove near its end, in combination with a ring revolving in said groove and having a small loop on its edge, the whip-lash, and the triangular closed link secured to the lash and turning up and down in the loop on the ring, substantially as specified.

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

EDMOND B. KNAPP.

Witnesses:

C. T. NIECE,

J. G. REINHARDT.