

(No Model.)

B. R. SUPLEE & G. M. MAIN.

WHIP.

No. 353,607.

Patented Nov. 30, 1886.

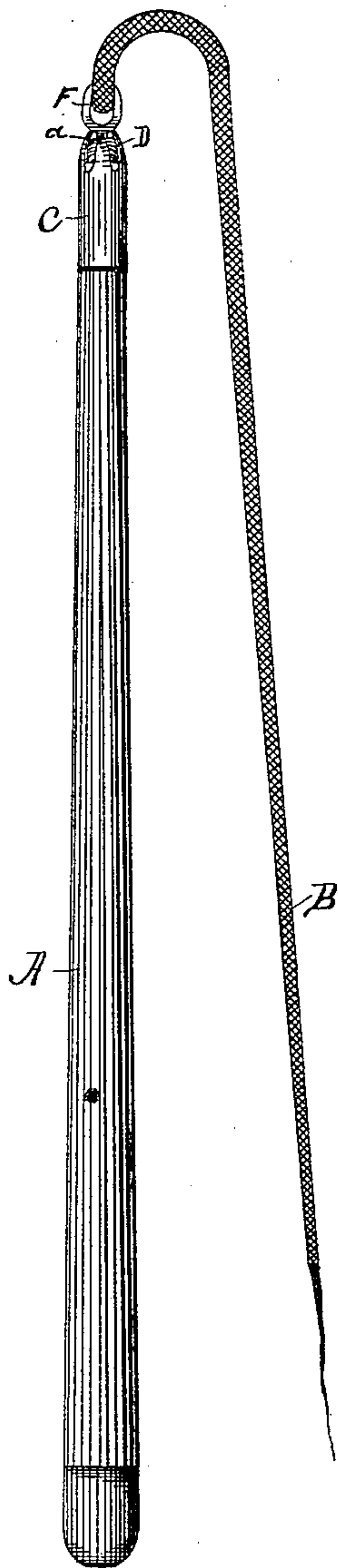


Fig. 1.

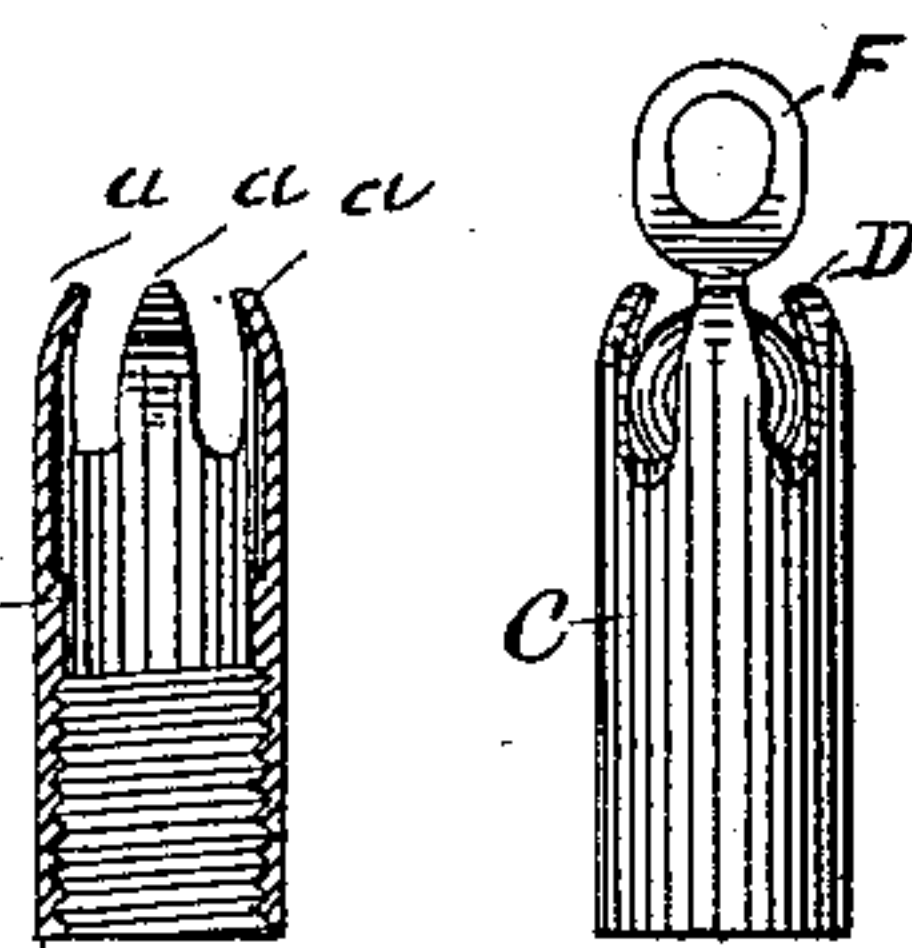


Fig. 2.

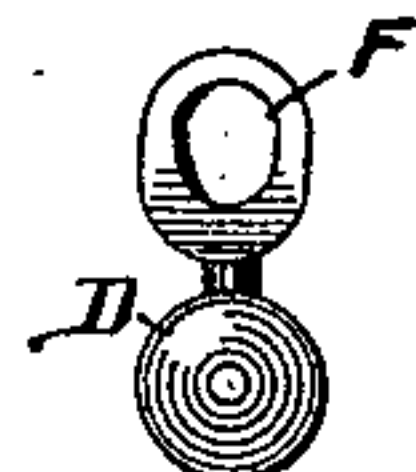


Fig. 3.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## WHIP.

SPECIFICATION forming part of Letters Patent No. 353,607, dated November 30, 1886.

Application filed September 22, 1886. Serial No. 214,220. (No model.)

*To all whom it may concern:*

Be it known that we, BENJAMIN R. SUPLEE and GEORGE M. MAIN, citizens of the United States, and residents of the city and county of Philadelphia, and State of Pennsylvania, have  
5 invented a new and useful Device for Attaching the Lashes to the Stocks of Whips, of which the following is a specification.

The object of our invention is to furnish an  
10 improved device for connecting the lashes to the stocks of whips, which will form a perfectly flexible joint, and be capable of a greater movement than the devices ordinarily employed for this purpose.

15 In the accompanying drawings, in which similar letters of reference indicate similar parts throughout the several views, Figure 1 is an elevation of a whip stock and lash embodying our invention; Fig. 2, a side elevation of our device for attaching the lash to the  
20 stock; Fig. 3, a central sectional elevation of the body of our device, and Fig. 4 an elevation of the ball.

A is the stock of the whip. B is the lash.  
25 Screwed or otherwise suitably secured to the stock is a hollow ferrule or cylinder, C, the upper end of which is notched out, and the points *a* formed thereby are bent inward, so as to loosely inclose a ball, D, which carries an  
30 eye, F, to which the lash B is secured.

The purpose of the points *a*, besides forming a convenient means for retaining the ball

D within the cylinder C, is to form the slots between them, into which the shank between the ball D and eye F may enter, in order that  
35 said ball and eye may be more readily moved and have a greater sweep in all directions.

By our arrangement the ball D and eye F can move in all directions—that is, they can have both a movement of rotation upon their  
40 axis, and, owing to the slots between the points *a*, they can move so that their axis will form an angle with the center line of the whip-stock; or, in other words, our device is a universal joint.

We are aware that devices consisting of a swivel and ring have been used for connecting the lashes to the stocks of whips; but this joint is not flexible, as the swivel has only one motion—that of rotation about its axis.  
45 50

We do not claim a swivel or a universal joint, broadly; but

What we do claim is—

The combination of the cylinder C, the upper end of which is furnished with points *a*,  
55 and slots between said points, said points being turned in, the ball D, and eye F, all arranged and operating substantially as and for the purposes set forth.

BENJAMIN R. SUPLEE.  
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Witnesses:

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