

(No Model.)

F. K. HICKOK.  
HARNESS CRUPPER.

No. 332,609.

Patented Dec. 15, 1885.

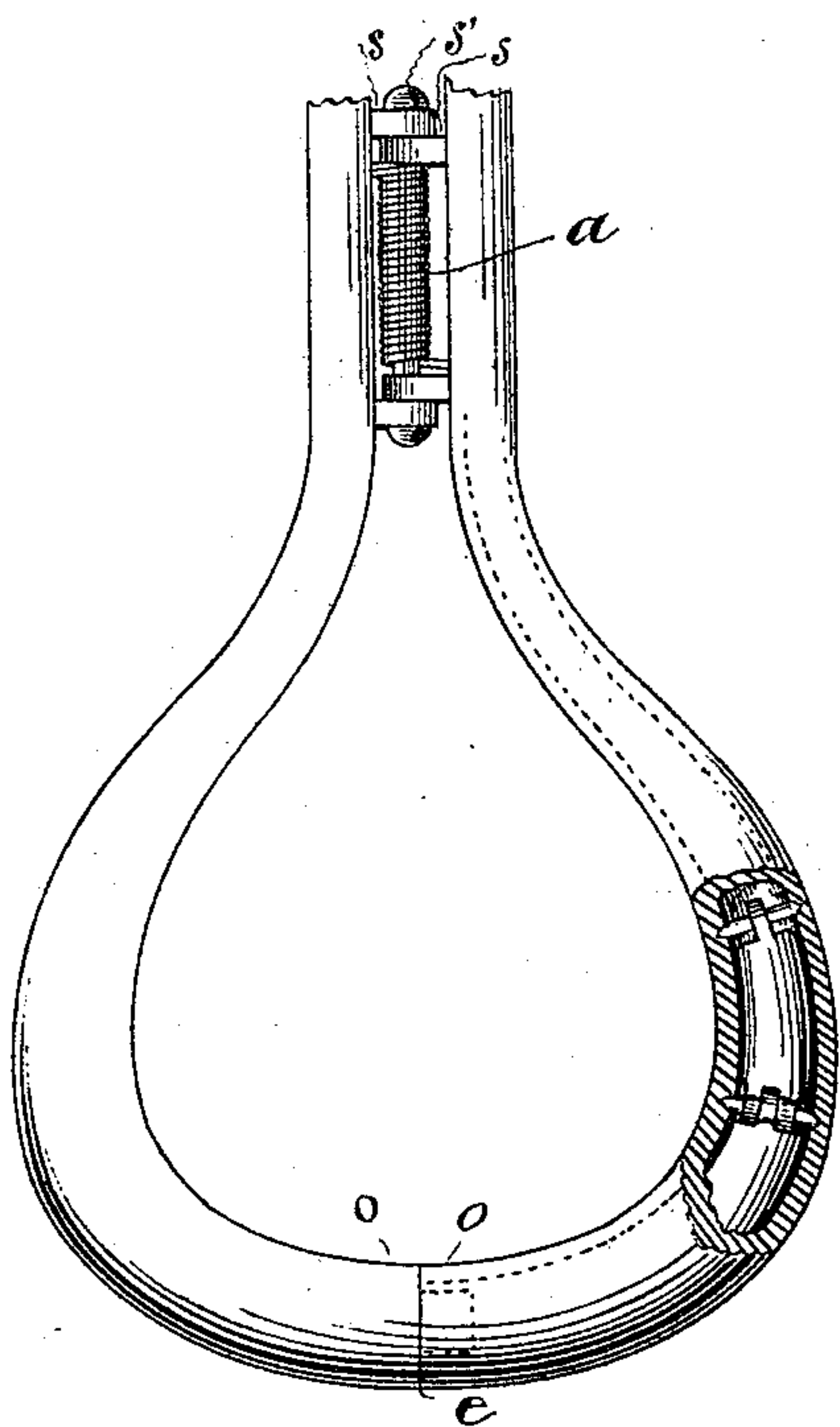


Fig. 1.

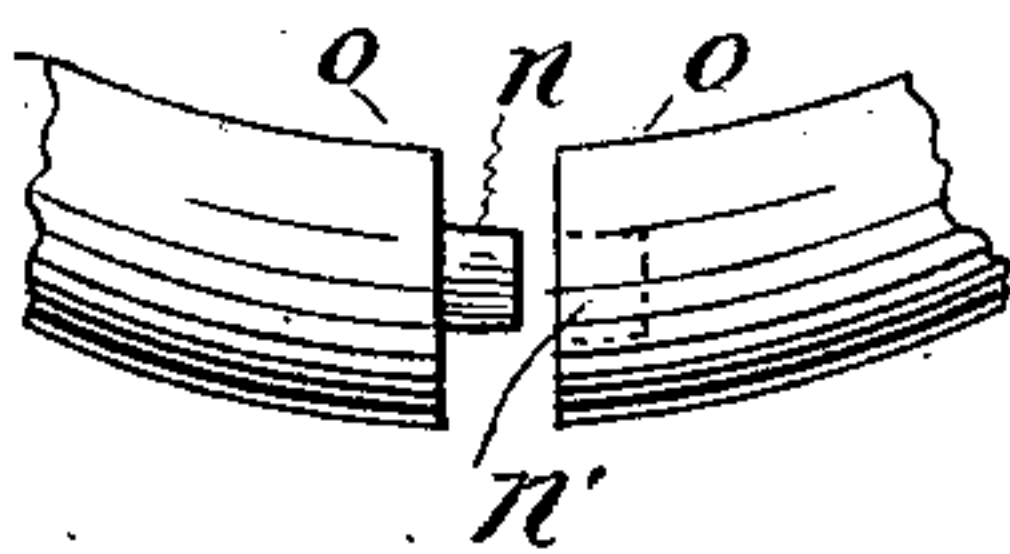


Fig. 3.

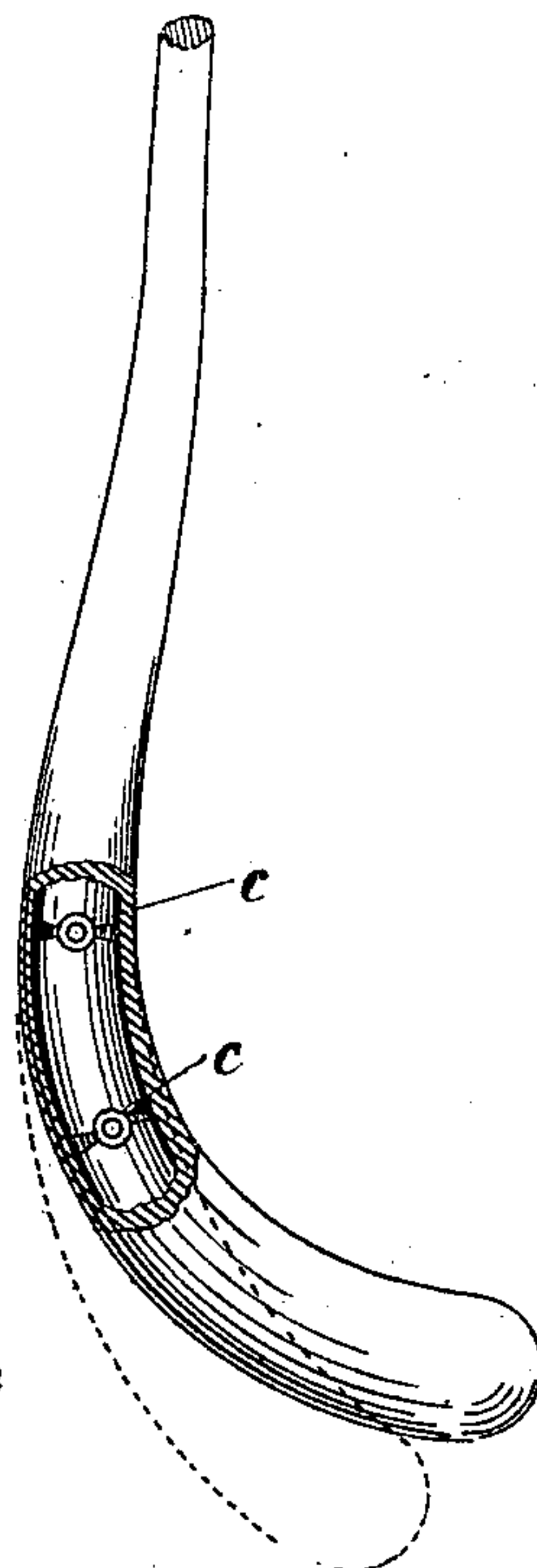


Fig. 2.

Witnesses  
C. M. Benjamin.  
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Inventor  
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by J. W. Lichau  
his Attorney.

# UNITED STATES PATENT OFFICE.

FRANK K. HICKOK, OF NEW YORK, N. Y.

## HARNESS-CRUPPER.

SPECIFICATION forming part of Letters Patent No. 332,609, dated December 15, 1885.

Application filed May 2, 1885. Serial No. 164,154. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK K. HICKOK, of the city, county, and State of New York, have invented a new and useful Improvement in Cruppers, of which the following is a specification.

This invention relates to improvements in cruppers. It has for its object to provide a crupper that can be applied to a horse's tail without passing the tail through the loop portion in the usual way.

My invention is fully illustrated in the accompanying drawings, which form part of this specification, and in which similar letters of reference indicate corresponding parts throughout the drawings.

Figure 1 represents a top view of my improved crupper, showing the retaining-spring *a*, which acts as a hinge to permit of the crupper being opened, and also as a means of keeping the crupper closed under the tail, as will be hereinafter explained. Fig. 2 is a side elevation showing the flexible rule-joints *c c*, which permit of sufficient vertical movement to prevent rigidity under the horse's tail. Fig. 3 represents the joint *c* with the ends *o o* separated to show the retaining-stud *n*, which fits in the socket *n'*, and prevents the ends *o o* from separating when the horse's tail is pressed thereon.

The eyes *s s* and bolt *s'* form a hinge which permits the crupper to be opened. The spring *a*, which surrounds the bolt *s'*, has one end secured to one side of the crupper, and one end secured to the opposite side, thus acting as a means to hold the loop ends *o o* together.

One end of the loop portion of my improved

crupper is provided with a stud, *n*, which is adapted to fit into a socket, *n'*, in the opposite loop end, as shown in Fig. 3. This stud is to prevent the ends *o o* from having any irritating movement under the horse's tail. In order to prevent rigidity of the crupper, I have provided the metal frame with the rule-joints *c c*, which permit of a vertical movement only, thus allowing the crupper to adjust itself to the requisite position under the horse's tail. It is self-adjustable, self-retaining, easy to handle, and perfectly flexible when in position.

The frame of the crupper (which contains the rule-joints *c c*, and to which are attached the eyes *s s* and spring *a*) is made usually of steel or any desirable hard metal that will not corrode and destroy the covering, which is usually made of leather.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is, to wit:

A separable crupper constructed as herein illustrated and provided with the spring *a*, as described, in combination with a metal frame constructed with the rule-joints *c c*, socket *n'*, and stud *n*, with a suitable covering, all as herein set forth, and for the purpose specified.

In testimony that I claim the foregoing improvement in cruppers, as above described, I have hereunto set my hand this 1st day of May, 1885.

FRANK K. HICKOK.

Witnesses:

T. McEVOY,

WM. H. ALDEN, Jr.