

(Model.)

J. FENNELL.
KNEE BOOT FOR HORSES.

No. 283,990.

Patented Aug. 28, 1883.

Fig. 3

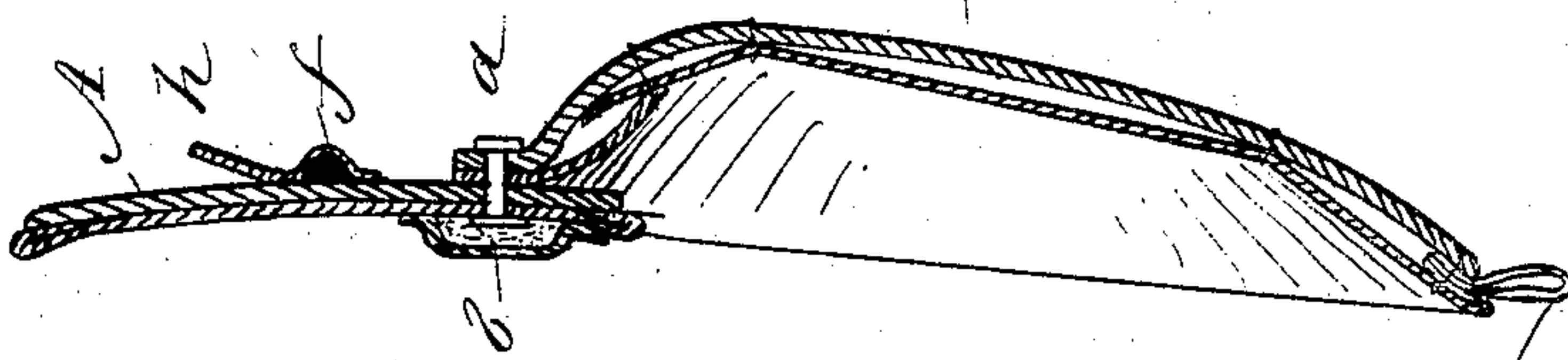


Fig. 2

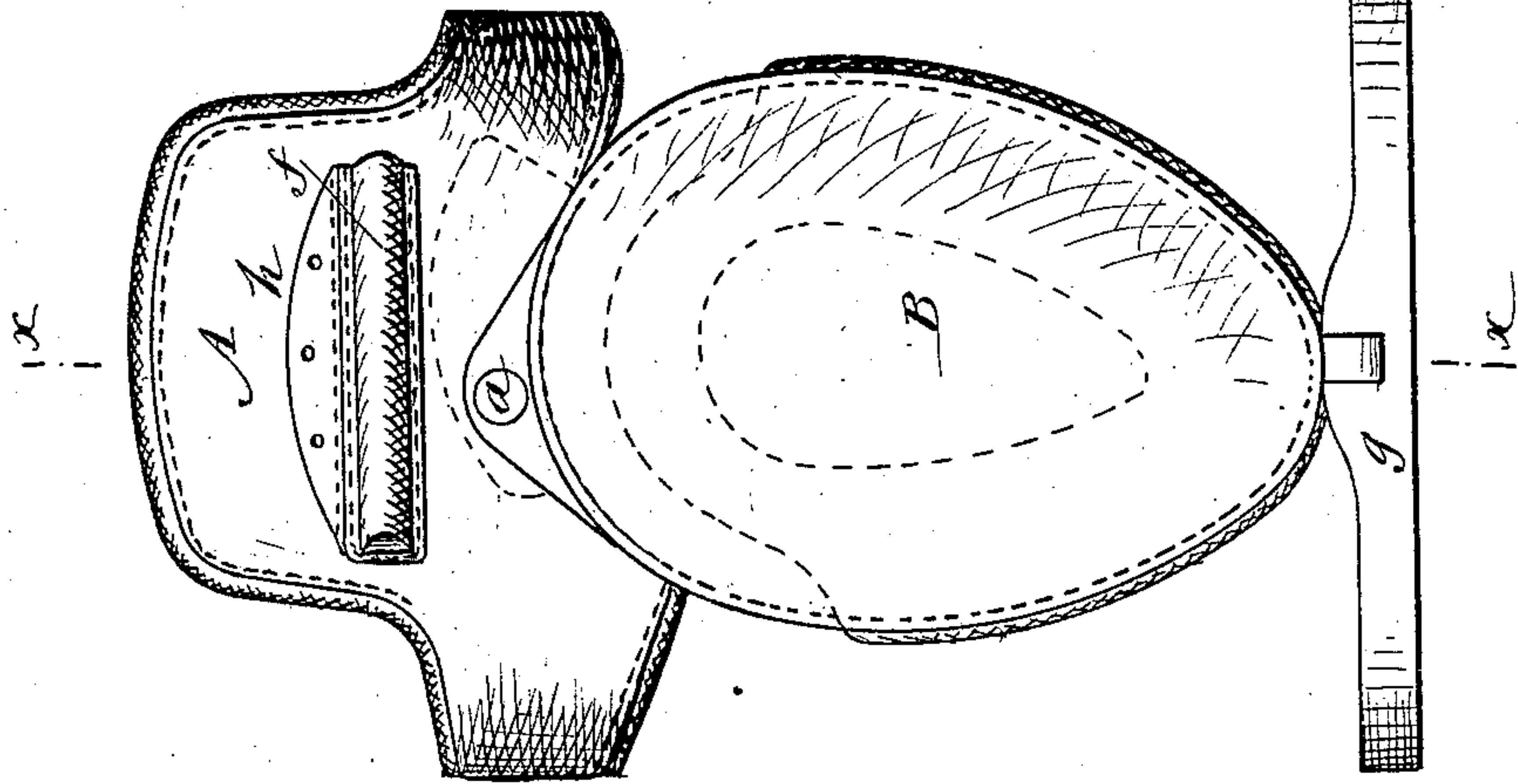
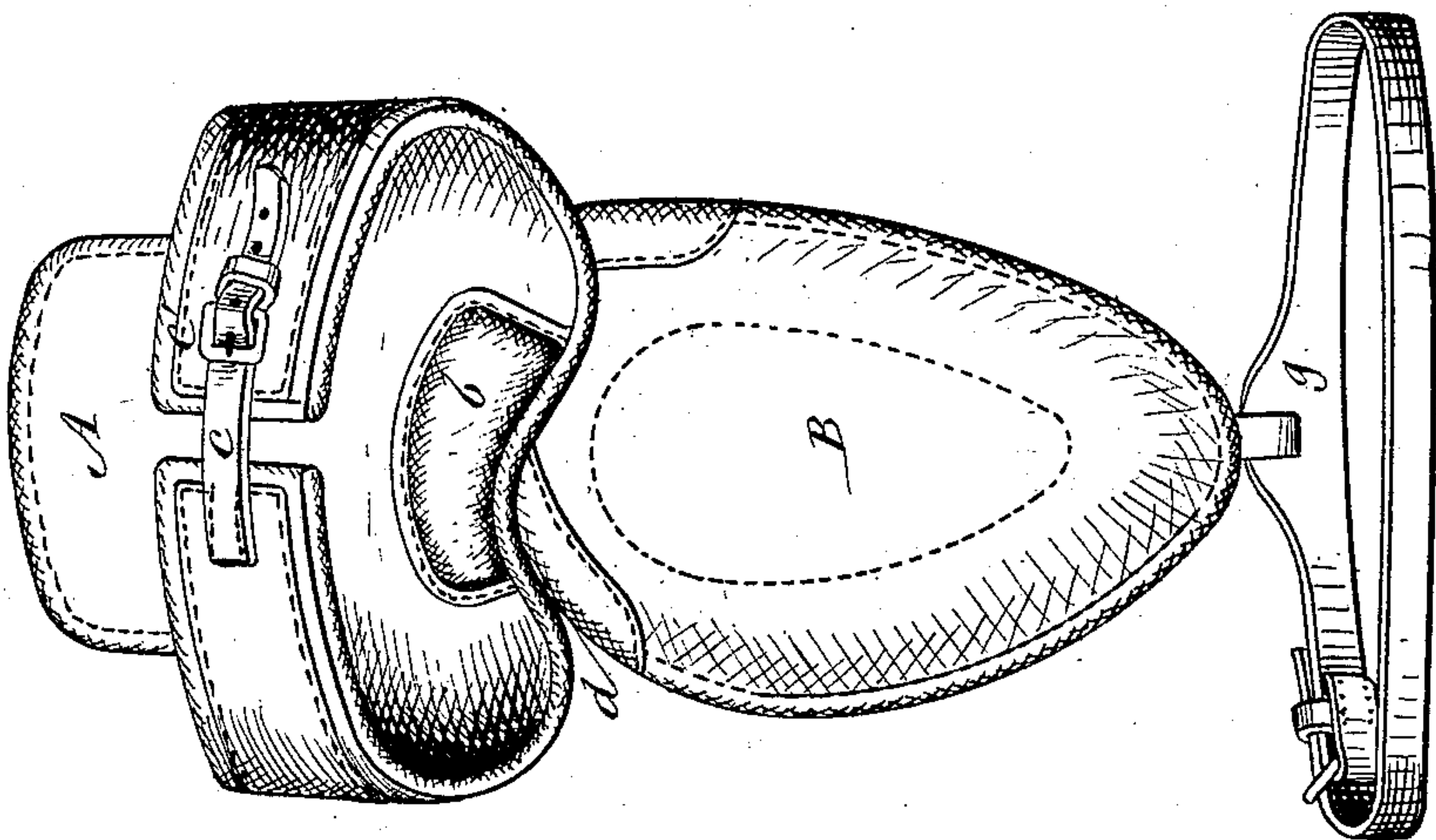


Fig. 1



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UNITED STATES PATENT OFFICE.

JOSEPH FENNELL, OF CYNTHIANA, KENTUCKY.

KNEE-BOOT FOR HORSES.

SPECIFICATION forming part of Letters Patent No. 283,990, dated August 28, 1883.

Application filed July 11, 1881. (Model.)

To all whom it may concern:

Be it known that I, JOSEPH FENNELL, of Cynthiana, in the county of Harrison and State of Kentucky, have invented a new and Improved Knee-Boot for Horses, of which the following is a specification.

The object of my invention is to provide boots or pads for the protection of horses' knees upon the inside, which will not interfere with the natural and free action of the limb, nor slip down, nor turn upon the limb, when once properly secured in place.

The invention consists, principally, in forming the pads of two parts or sections, pivoted together and adapted to be strapped to the limb above and below the knee.

In the accompanying drawings, Figure 1 is a perspective view of my improved knee-boot, showing the inside of the pads. Fig. 2 is a similar view, showing the faces of the pads; and Fig. 3 is a vertical section taken on the line *xx* of Fig. 2.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the upper pad or section, and B represents the lower pad or section of the boot. These sections are hinged together by the short rivet *a*, which passes through the upper part of the lower and the lower part of the upper pad, as shown. Over the inner end of the rivet is placed the cushion *b*, which prevents the rivet coming in contact with the limb of the horse. The pad A is provided at the ends thereof which encircle the leg of the horse with the strap *c* and buckle *c'*, and the lower edge of this pad is formed with the upward curve or circled-out place, as shown at *d* in Fig. 1, so that when this pad is secured upon the limb just above the knee by the strap and buckle this portion of the pad will rest upon the knee-bone of the horse, and prevent the boot from slipping down. Upon the face of this pad A is placed the stiffening *f*, which may be secured upon the pad by any suitable means—preferably by means of the pocket formed by stitching a separate piece of leather upon the face of the pad, as shown in the drawings. This stiffening keeps the inside and face of the pad from assuming the form of a curve, and thus prevents the turning of the boot upon the limb. The lower section, B, is preferably

elliptical in form, and is concave or cup-shaped to fit over the knee-joint, and is provided at the lower end with the strap and buckle *g*, which goes around the limb below the knee for securing the pad. Above the pocket and stiffening is stitched to the face of the pad A the perforated strip *h*, by which, when required, the boot may be laced to another protecting arm or boot, which may be secured to the limb above the section A.

The sections of the boot, being pivoted together and secured above and below the knee, accommodate every motion of the limb, and in no way obstruct or trammel the free and natural action of the horse, and thoroughly protect the limbs of the horse from injury while being driven at a high rate of speed and at all times.

I make no broad claim in this case to a boot made in two sections connected by a flexible attachment. In my Patent No. 133,768, December 10, 1872, I show a boot made of two sections united by a flexible strap. The boot was connected and adapted to protect the pastern-joint. My improvement as disclosed in this case is designed solely for a knee-boot, and the strap-connection shown and described in my former patents would not answer the purpose of this improvement. The object to be attained by this invention is to provide a knee-boot that will thoroughly and effectually protect the knee-joint, to insure a perfectly free and easy movement of the two sections, so as not to interfere with the action of the limbs, and, further, to obviate the necessity for buckling the upper section tightly around the leg and impede the circulation. The lower section is made convex to fit over the knee-joint, and is provided with a flat upper extension that fits upon the lower portion of the upper section and is pivoted thereto, so that the two sections are free to move without an expenditure of any appreciable friction or force. As the lower section fits over the knee-joint, it is not liable to slip down, and in the movement of the fore leg the upper section is upheld by the pivotal connection, and thus obviates the necessity for tight lacing of the parts.

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

1. A knee-boot for horses, consisting of the section A, adapted to be located above the knee-joint, and section B, adapted to cover the knee-joint and constructed to overlap the lower portion of section A, the two sections being pivoted together by the rivet *a*, substantially as set forth.
2. The section A, provided with the stiffening *f*, in combination with the pivoted section B, substantially as and for the purposes set forth.
3. The section A, provided with the stiffening *f* and the strap *h*, and formed with the upward curve *d* at its lower edge, in combination with the pivoted lower section, B, substantially as and for the purposes set forth.

JOSEPH FENNELL.

Witnesses:

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