

No. 671,308.

Patented Apr. 2, 1901.

A. COLE.
HORSE BOOT.

(Application filed Feb. 19, 1900. Renewed Nov. 1, 1900.)

(No Model.)

Fig. 1.

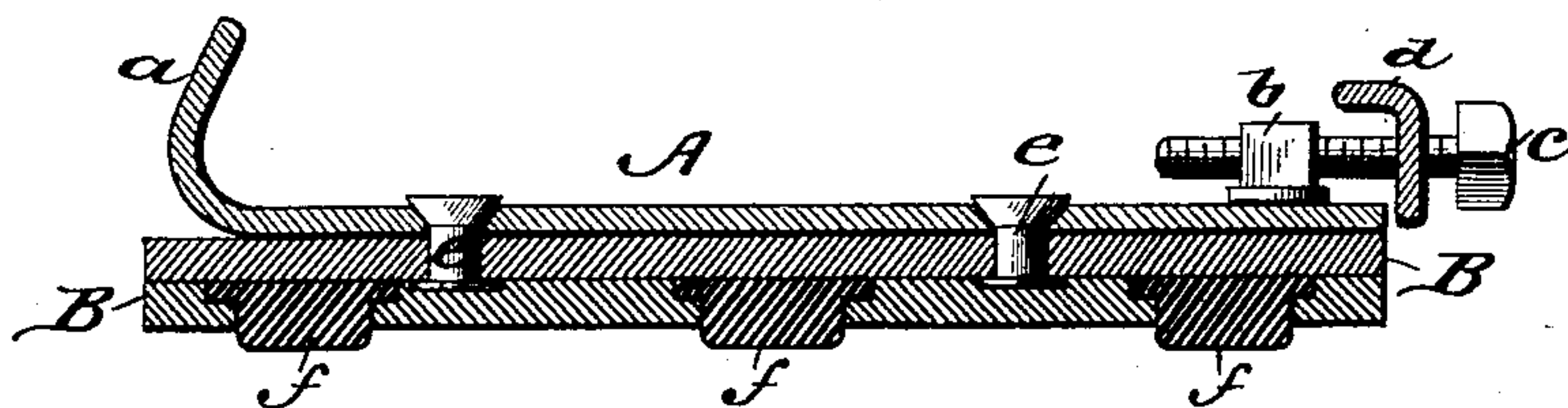
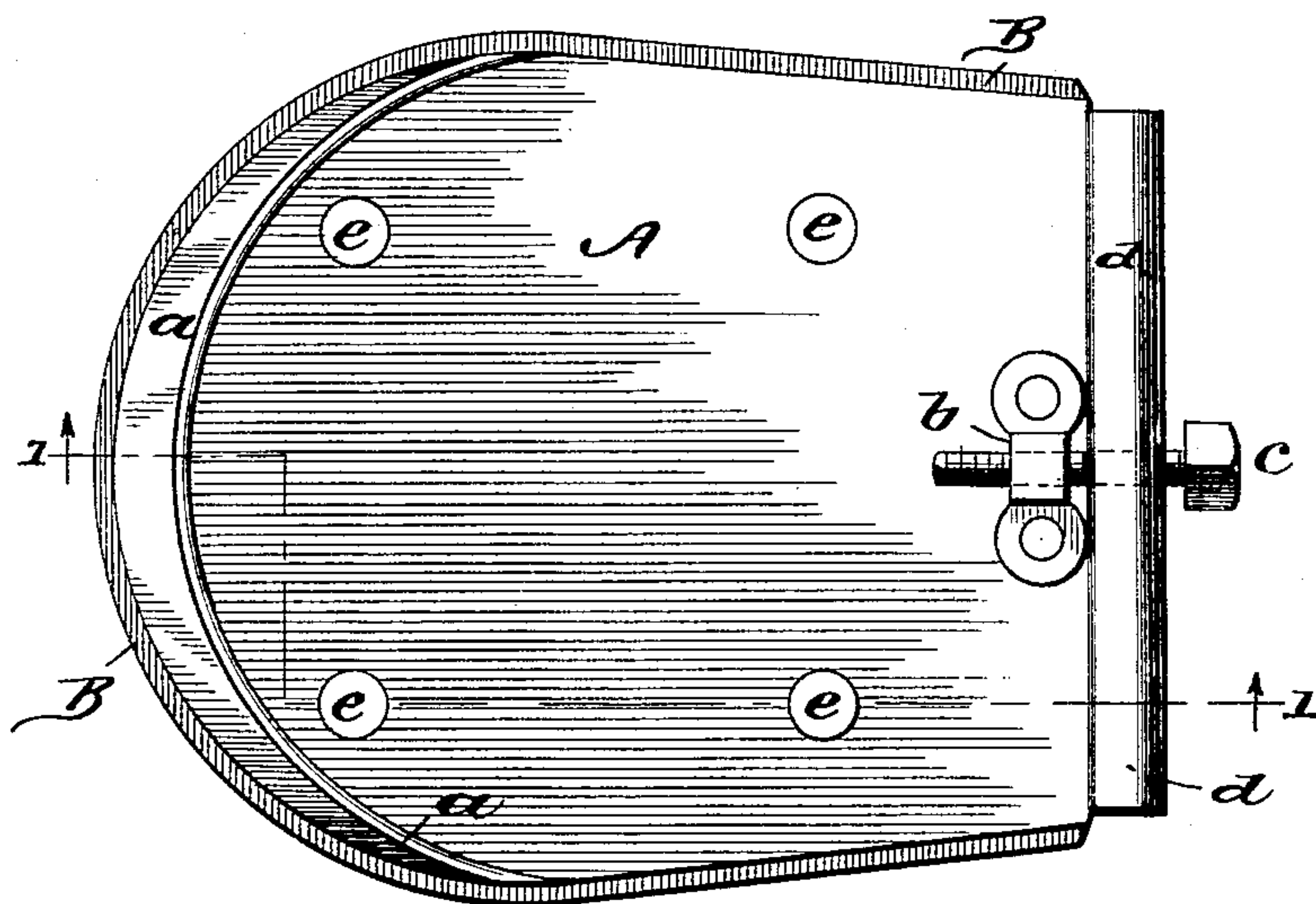


Fig. 2.



WITNESSES:
W. A. Cloude.
Perry B. Surpin.

INVENTOR
Arthur Cole
BY *Munn & Co.*

ATTORNEYS

UNITED STATES PATENT OFFICE.

ARTHUR COLE, OF LONDON, ENGLAND.

HORSE-BOOT.

SPECIFICATION forming part of Letters Patent No. 671,308, dated April 2, 1901.

Application filed February 19, 1900. Renewed November 1, 1900. Serial No. 35,113. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR COLE, secretary to a public company, of Oak Lodge, Telford Park, London, S. W., England, have invented Improvements in Horse-Boots; and I do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement.

This invention relates to improvements in boots for horses and other animals when employed on grass-lands for the purpose of drawing rollers, mowing-machines, carts, and the like, chiefly connected with the keeping in order of golf-links, cricket-grounds, parks, lawns, and other similar grounds. The purpose for which such boots are used is to prevent as far as possible the marking and cutting up of the grass by the animal's feet, especially in wet weather, when the ground is soft.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters indicate corresponding parts in both the figures.

Figure I is a longitudinal section. Fig. II is a plan showing the upper side.

In carrying out the invention I employ a strong plate A, made, by preference, of the best steel, and this plate is shaped as nearly as possible to the outlines of a horse's foot. Around the front or toe of this plate a flange or toe-cap *a* is turned up and made to slope away backward, so as to insure against any sidewise movement of the foot. I prefer to make this foundation-plate out of one sheet of metal, stamped out or otherwise suitably bent into the required shape. The toe-cap, however, may be riveted or bolted on, if preferred. At the heel end of this sole-plate A is securely riveted a strong nut *b*, which receives a screw or bolt *c*. Upon this screw-bolt is carried a swing-bar *d*, made, by preference, of angle iron or steel, and it will be seen that when the foot of a horse shod with the usual iron shoe is placed in this boot the heel ends of the ordinary shoe will pass under the outer ends and upper edges of this swing-bar *d*. The screw *c* being then tightened up, the bar *d* acts as a clamp, firmly gripping the foot between the bar and the toe-flange *a*. The swing-bar *d* is of angle

metal, having the upright wing, with which the screw *c* connects, and the horizontal wing, which projects forward and is adapted to engage upon the rear ends of the shoe, and the said swing-bar is extended laterally, whereby its ends are adapted to engage the heels of the shoe. The pressure of the screw, however, is not upon the horse's hoof, but entirely upon the iron shoe with which working horses are usually shod. In cases where horses are employed without the ordinary shoes these boots may be secured by means of straps around the upper part of the hoof—an arrangement in common use and needing no further explanation here.

In order to prevent slipping and to insure softness of tread upon well-kept lawns, I provide substantial pads or soles under the plate A above described. Such padding may consist of a single sheet of leather, india-rubber, or other kindred substances, or I prefer to make the sole of two good pieces of leather, sewed, pegged, or riveted together, as shown at B, Fig. 1. This or any similar sole may be riveted to the plate A, as seen at *e*, or bolts or any suitable mode of attachment may be used. There are numerous compounds of india-rubber and other kindred substances which may be used either as substitutes for leather or in combination with it for the making of these pads B. Preference, however, is given to an arrangement similar to that shown at B, Fig. 1, in which studs or cushions *F* are made to project through holes cut in the leather sole and to stand out in relief through the bottom, as shown. Such studs may be made of india-rubber or any other suitable material and secured in their places by means of flanges held between the sheets of leather or in some other similar position. These studs may be of any desired size and length of projection, the main object being to lessen the liability to slip and also to add to the durability of the boots, as when worn down such studs can readily be replaced with new ones. Obviously, however, the object here indicated may be secured by making this lower sole or padding entirely out of india-rubber or other composition serving the like purpose, all cast or molded in one piece and having studs, projections, or striations spread over its lower surface, as may be desired.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

- 5 1. A horse-boot comprising the foundation plate or sole having a toe-cap or flange and provided at its rear end with a screw and with a swing-bar arranged for operation thereby and extended laterally whereby it is
10 adapted to engage the heels of a horseshoe.
2. The horse-boot described, comprising the foundation-plate provided with means whereby it may be retained in place, and pad
15 cushioning-studs, and means for securing the same to the under side of the foundation-plate.
3. A horse-boot comprising the foundation plate or sole having on its under side a pad or
20 plate provided with openings and flanged cushioning-studs projecting through said openings, substantially as set forth.
4. A horse-boot comprising the foundation-plate provided at its front end with the up-
25 turned toe-cap or flange and having the nut

centrally upon it at its rear end, the screw engaging said nut, and the bar supported centrally on said screw and extended laterally whereby its ends are adapted to engage the
30 heels of the shoe.

5. The combination in a horse-boot of the foundation plate or sole provided at its front end with means for engaging the front of the hoof and having a nut at its rear end, the
35 screw engaging said nut, and the angle clamping-bar carried thereby and having one wing for engagement with the screw and another wing to engage the heels of the shoe, substantially as set forth.

6. The combination of the foundation-plate, 40 a plate below and riveted to the foundation-plate and having an attached lower plate provided with openings, and the flanged cushioning-studs held in said openings, substantially as set forth.

Dated this 7th day of February, 1900.

ARTHUR COLE.

Witnesses:

MABEL COLE,
BESSIE COLE.