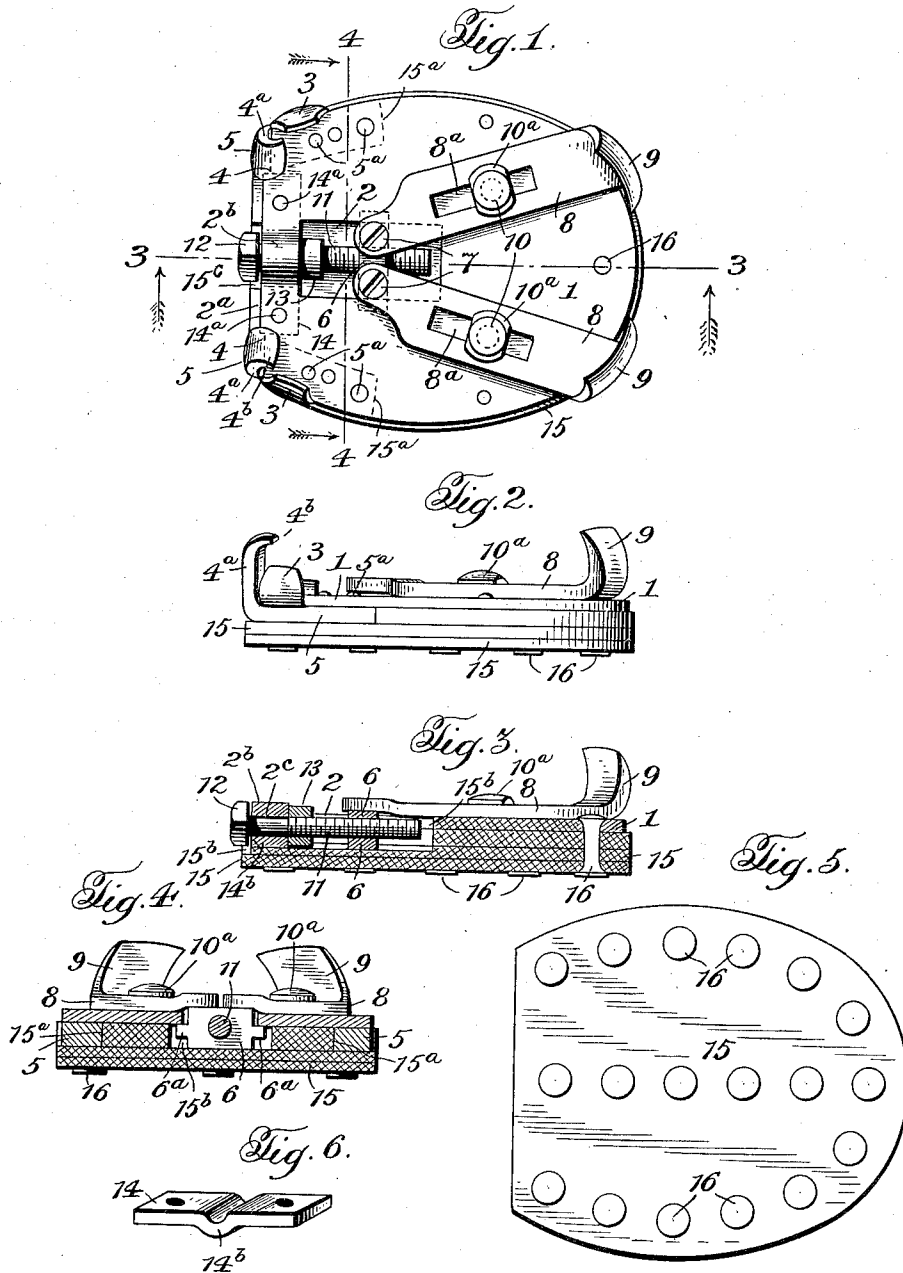


C. W. CONKLIN.
HORSE BOOT OR SHOE.
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Patented June 18, 1912.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES W. CONKLIN, OF STONY BROOK, NEW YORK.

HORSE BOOT OR SHOE.

1,029,594.

Specification of Letters Patent.

Patented June 18, 1912.

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To all whom it may concern:

Be it known that I, CHARLES W. CONKLIN, a citizen of the United States, residing at Stony Brook, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Horse Boots or Shoes, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to horse boots or shoes of a character adapted more particularly to be applied over any of the ordinary types of shoes previously applied to the horse's hoof.

15 The invention is designed more particularly for use as a means for protecting lawns, golf courses and the like where it is usual to employ horses as the means for operating mowing machines and the like.

20 It has been found in practice that the more usual shoes will cut up or otherwise mar or damage the lawn, and it is the object of the present invention to provide a cover or boot for the shoe which will not in any manner damage the lawn, and at the same time will prevent the horse from slipping should the lawn be damp or slippery.

25 More particularly the invention includes a carrying plate, preferably of metal, with improved attaching means on the plate to engage over the ordinary shoe, and a protective covering for the under surface of the plate adapted to engage the lawn or the like.

30 The improved boot is of a character readily applicable and detachable, simple and inexpensive in construction and durable in use.

35 Various other improvements and novel details in the construction and arrangement of parts will be more particularly referred to hereinafter in the detailed description which for a clear understanding of the invention should be considered in connection with the accompanying drawings forming a part hereof and wherein is disclosed for the purpose of illustration, a satisfactory embodiment of the invention.

40 In the drawings: Figure 1 is a top plan view, Fig. 2 a side elevation, Fig. 3 a longitudinal section on line 3—3 of Fig. 1, Fig. 4 a transverse section on line 4—4 of Fig. 1, Fig. 5 a bottom plan, and Fig. 6 a perspective detail view.

45 With more particular reference to the drawings wherein like reference numerals

refer to corresponding parts throughout the view, 1 is a body plate, preferably of metal and conveniently a relatively thin sheet taking the usual outline of the conventional form of horse shoe, and preferably of a size to overlie the edges of the latter. The base plate 1 is preferably formed substantially midway of its sides with a longitudinally extended cut-out portion 2, terminating at a slight distance from the heel 2^a of the plate. The part 2^b of the plate 1 connecting the rear end of the cut-out portion 2 with the heel of the plate is preferably struck-up so as to form a curved recess portion 2^c, for a purpose to be described. At opposite sides of the plate and at the rear or heel portion thereof, the plate is formed with flanged extensions adapted to be bent or struck up to form engaging flanges 3 to engage over the sides of the shoe adjacent the rear thereof. The rear edge of the base plate 1, adjacent the sides thereof, is cut away at 4 for the reception of upright portions or flanges 4^a of elongated bars 5 overlying the under surface of the plate 1 and secured to the latter as by rivets 5^a. The upright portions or flanges 4^a are adapted to engage over the rear end of the usual horse shoe and terminate in inwardly turned ends or flanges 4^b adapted to engage over the rear ends or heel portion of the said shoe. A block 6 is positioned in the cut-out portion 2 of the plate for a sliding movement, the same having underlying flanges 6^a at opposite sides to engage under the lower surface of the plate 1 whereby to guide the block and hold the same in place in said cutout portion. Pivotaly connected to said block 6, as by pivot bolts 7 are forwardly extending elongated relatively flat arms 8 inclining outwardly toward the forward end of the plate and terminating in upwardly extending slightly inwardly curved flanges 9 of some considerable depth and adapted to engage over the forward end of the shoe and engage the horse's hoof. The arms 8 have elongated slots 8^a constituting guideways loosely engaging over guide pins 10 secured to the plate 1 and having enlarged heads 10^a engaging over opposite side walls of the slots 8^a. The block 6 has a threaded recess extending therethrough and is adapted to be engaged by an elongated complementary threaded bolt 11 having its outer end adapted to rest within the recessed portion 2^b of the plate 1, and terminating in a bolt head

12 overlying the rear end of the plate 1. A suitable collar 13 is secured to the bolt to engage over the rear wall of the cut-out portion 2 of the plate 1, whereby the bolt is held from longitudinal movement and will, upon rotary movement being imparted thereto, compel longitudinal movement of the slidable block which carries the arms 8. A transversely extending plate 14 is secured to the under surface of the plate 1 as by bolts or rivets 14^a and has the struck-up or recessed portion 14^b adapted to afford a rest or bearing surface cooperating with the oppositely disposed recessed portion 2^b of the plate 1, for the said bolt 11.

The above parts constitute a carrying frame or structure for the lawn protecting surface about to be described and the said structure is of a character that the same may be readily positioned on the ordinary shoe and held in place thereon by simply imparting through the medium of a wrench or the like engaging the head 12 of the bolt, rotary movement to said bolt.

The lawn protecting surface may be formed of various materials, but is preferably of a yieldable character, and a series of superimposed layers of leather has been found satisfactory for the desired purpose. These leather layers may be glued or otherwise compressed to form in effect a single compact mass and the same is preferably of a size and shape to underlie the entire lower surface of the plate 1. The protecting surface is given the numeral 15 and has cut out portions 15^a at the sides on the upper surface thereof adapted to form receiving recesses for the elongated bars 5 of the upright flanges 4^a at the rear of said plate 1. The upper surface of said protecting member 15 is also recessed intermediate the sides thereof at 15^b whereby to permit of the unrestricted sliding movement of the block, the said recess 15^b terminating in an enlarged recess 15^c in the upper surface at the rear end of the member 15 whereby to permit unrestricted rotary movement of the headed end 12 of the bolt.

In order to firmly secure the protecting member 15 to the under surface of the plate 1, I preferably provide rivets 16 which project through the member 15 and the plate 1 being secured to the latter and having enlarged relatively flat disk-shaped heads underlying the outer surface of the member 15. The said rivets having the three-fold function of securing the parts in place, of increasing the wearing characteristics and durability of the protecting member 15 and the further and important result of preventing slipping of the boot over the surface should the same be slippery. At the same time the headed ends being of disk-shape formation will not mar or otherwise injure the lawn. It has been found that

the most satisfactory results are accomplished by arranging the rivets in one series which extends around the boot adjacent the periphery thereof, and an additional series extending longitudinally centrally of the boot. One or more of the rivets also constitute an additional securing means for the elongated bars 5 of the flange 4^a at the rear of the boot since said rivets pass through the member 15, the said bars and the plate 1.

The operation is believed to be obvious from the above. Should it be desired to drive horses over the lawn for the purpose of mowing the grass or any other purpose, the operator first spaces the forward flanges 9 of the bars 8 by imparting rotary movement to the bolt 11 to the left. When the boot is in position on the ordinary shoe of the horse, the same is retained in place by imparting rotary movement to the bolt to the right. The continuous yieldability of the protecting pad 15 protects the surface from any injury and the disk-shaped heads of the securing rivets prevent any slipping of the hoofs.

I claim:—

1. In a horse boot of the character described, the combination of a body part or plate of substantially the same size of an ordinary shoe so as to constitute a cover therefor, said plate having a longitudinally extending slot, a sliding block in said slot, oppositely disposed arms connected to said block and terminating in shoe-engaging flanges, auxiliary flanges on the plate, and a protective covering underlying the lower surface of the plate and substantially co-extensive therewith, whereby the shoe will be spaced from contact with the surface.

2. In a horse boot of the character described the combination of a metallic plate of substantially the outline of a horse hoof, said plate having a longitudinally extended slot, a slidable block positioned in said slot and having an interlocking engagement with the side walls of said slot, elongated arms connected at their inner ends to said block and terminating at their forward ends in shoe engaging flanges, cooperating flanges adjacent the rear end of the plate, and a protective covering underlying the lower surface of said plate.

3. In a horse boot of the character described, the combination of a metallic plate of substantially the outline of a horse hoof, said plate having a longitudinally extended slot, a slidable block positioned in said slot and having an interlocking engagement with the side walls of said slot, elongated arms connected at their inner ends to said block and terminating at their forward ends in shoe-engaging flanges, cooperating flanges adjacent the rear end of the plate, a protective covering underlying the lower surface of said plate and being substantially co-

extensive therewith, and said protective covering having a longitudinally extended cut-out portion in its upper portion overlying the path of movement of said block.

5 4. In a horse boot of the character described, the combination of a metallic plate of substantially the outline of a horse hoof, said plate having a longitudinally extended slot, a slidable block positioned in said slot
10 and having an interlocking engagement with the side walls of said slot, elongated arms connected at their inner ends to said block and terminating at their forward ends in shoe engaging flanges, cooperating flanges
15 adjacent the rear end of the plate, a protective covering underlying the lower surface of said plate and being substantially co-extensive therewith, said protective covering having a longitudinally extended cut-out portion in its upper portion overlying
20 the path of movement of said block, and means for imparting longitudinal movement to the block including a threaded bolt engaging a threaded aperture in the block,
25 said bolt having a headed end overlying the rear edge of the plate, and a protective covering having a recess for the reception of said headed end of the bolt.

30 5. In a protecting boot for horseshoes, the combination of a disk-shaped plate of substantially the outline of a shoe, said plate having projecting from its upper surface

adjustable toe engaging flanges and fixed upwardly extending flanges at its sides adjacent the rear end thereof, and heel engaging
35 flanges projecting upwardly over the rear edge of the plate and having off-set parts overlying the under surface of the plate, a protecting covering of yieldable material overlying said under surface of the
40 plate, and said off-set parts of the heel engaging flanges, and means for securing the covering and said off-set parts to the plate.

6. In a horse boot, the combination of a base plate, of relatively rigid material, toe
45 engaging flanges projecting from one surface of the plate and adjustably mounted thereon, heel engaging flanges at the rear end of the boot, a protecting covering of relatively yieldable material substantially
50 co-extensive with the plate and underlying the lower surface thereof, and means for securing the protective covering to the plate including metallic reinforcing parts passing
55 through the projecting member and plate, one or more of said reinforcing parts projecting through and connecting with said heel flanges.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES W. CONKLIN.

Witnesses:

WM. H. SMITH,

THOS. S. ANDERSON.