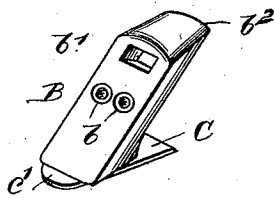
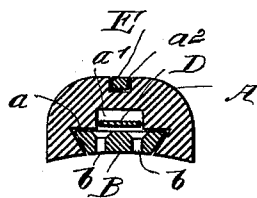
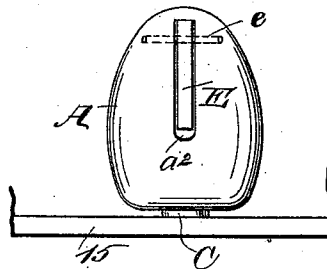
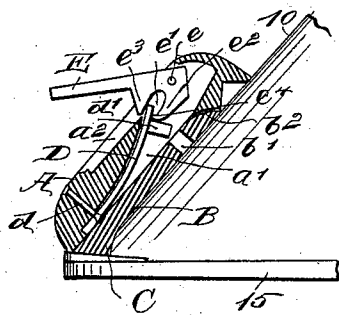
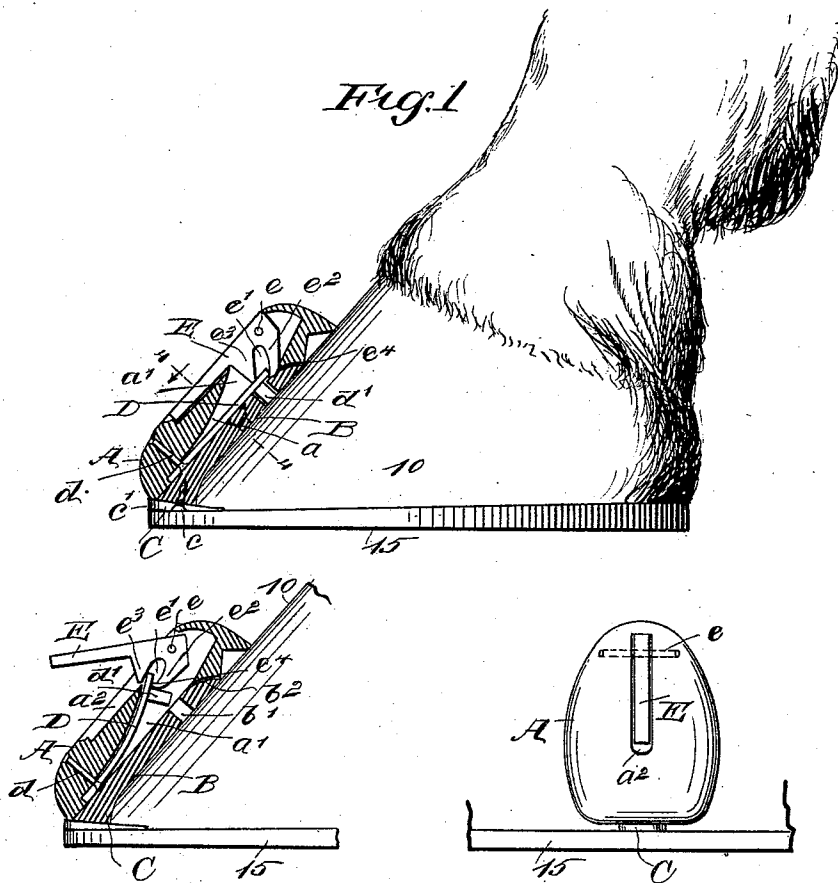


(No Model.)

F. D. SCOTT.
HOOF WEIGHT.

No. 523,180.

Patented July 17, 1894.



WITNESSES:

Johna Berghman
J. McLaughlin

INVENTOR

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UNITED STATES PATENT OFFICE.

FRANK D. SCOTT, OF MOUNT MORRIS, MICHIGAN, ASSIGNOR OF ONE-HALF
TO FREDERICK S. TAYLOR, OF SAME PLACE.

HOOF-WEIGHT.

SPECIFICATION forming part of Letters Patent No. 523,180, dated July 17, 1894.

Application filed May 8, 1894. Serial No. 510,472. (No model.)

To all whom it may concern:

Be it known that I, FRANK D. SCOTT, of Mount Morris, in the county of Genesee and State of Michigan, have invented a new and useful Improvement in Hoof-Weights, of which the following is a full, clear, and exact description.

The object of the invention is to so improve hoof weights that they may be securely adjusted at the toe or other point on the hoof without providing any special grooves, recesses or like formations in the shoe, to so construct and arrange the fastening and releasing devices of the weight that they will leave the lower end of the weight practically solid, thus locating the greatest possible weight in the lower end, and to provide fastening and releasing devices which will withstand the jarring to which they are subjected in use, and which will solidly hold the weight in place and will permit a ready removal thereof, when necessary, without removing the shoe.

To this end the invention consists in the novel features of construction as hereinafter particularly described and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters and figures of reference indicate corresponding parts in all the views.

Figure 1 is a sectional side view of a toe weight embodying my invention and showing the same applied to a hoof. Fig. 2 is a similar view showing the manner of releasing the body of the weight in removing the same. Fig. 3 is a front view. Fig. 4 is a cross section taken through the weight on about the line 4-4 Fig. 1; and Fig. 5 is a perspective view of the device that is secured to the hoof and to which the body of the weight is attached.

The toe weight comprises the body A and the block B, the latter having means for fixedly securing it to the hoof, and the body A having locking devices for removably securing it to the block B, and releasing devices, as presently will be described.

The block B has secured to its lower end a plate C, which preferably is secured as shown, by a screw c, or formed integral with the

block, and is disposed at such an angle to the block that when the plate is entered in a recess made therefor in the hoof 10, between the hoof and the shoe 15, the block will correspond with the angle of the surface of the hoof. Additional fastening devices for the block consist of suitable screws which are adapted to pass into the hoof through the screw holes b.

In the inner face of the body A a longitudinal recess a is formed, having dovetailed side walls as shown in Fig. 4, and this recess extends through the lower end of the body and enables the body to be engaged with the block by a downward sliding movement, the block entering the lower end of the recess, the parts fitting together as shown in Figs. 1, 2 and 4. The recess a is deepened toward the upper end as at a' and receives the plate spring D, which is fastened at its lower end as at d and is adapted to flex at its upper end in the deepened portion a' of the recess, and on the said spring a lug d' is formed or secured, said lug being received in an opening b' formed therefor in the block B, the spring and its lug thus forming a spring latch for locking the body A to the block B. The upper end of the block B is rounded off as at b² in order to cause it to flex the spring D by contacting with the lug d' as the body and block are slid into engagement, and thus permit the end of the block to pass such lug until the recess b' comes opposite the same, at which time the lower end of the body will rest against the projecting end c' of plate C. The extreme end of the spring D, beyond the lug d', engages the releasing lever E, which is pivoted to the body as at e, the shank of the lever being normally received in the depression a² formed in the outer face of the body A, such depression being continued into the upper deepened end of the recess a, a', which receives the head of lever E. The end of the spring D is received in a recess e', formed between the lugs e², e³, of the lever, the inner lug e², having a hook-like end e⁴; and the arrangement is such that the spring D normally presses against the lug e² and its hooked end and maintains the parts in proper engagement, with the lever E flush with the

outer surface of the body, as in Fig. 1, and when it is desired to disengage the body it is only necessary to raise the lever to the position shown in Fig. 2, which will release the spring latch D. By this construction the spring latch will not be affected or released by any jar, the parts are all strong and durable, and the weight may be readily applied to and removed from the hoof without providing any special formations in the shoe or removing the shoe from the hoof.

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

- 15 1. A hoof weight comprising a block adapted to be secured to the hoof, and a body having a longitudinal recess in its inner face, a spring latch consisting of a plate spring in said recess and provided with a lug, the block
- 20 having an opening for receiving said lug, and a releasing lever having a shank ranging along the outer face of the body and having a recess in its head into which the end of the

plate spring is received, substantially as described.

- 25 2. A toe weight comprising a block having a plate at its lower end disposed at an angle to the body, a rounded upper end, an opening below such end and screw holes adjacent to such opening, and a body having a longitudinal recess in its inner surface and a longitudinal depression in its outer surface, the recess being deepened at its upper end and communicating with the said depression, a plate spring secured to the body in the recess and provided with a lug, the upper end of the spring extending beyond the lug, a lever fulcrumed on the body and having a shank fitting the depression thereof, and the head of the lever having two lugs forming a recess in which the upper end of the plate spring is received, substantially as described.
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- 35
- 40

FRANK D. SCOTT.

Witnesses:

HORACE G. MANN,
FRANCIS H. CALLON.