(No Model.)

G. R. KING.

WEIGHT FOR HORSES' HOOFS.

No. 460,017. Patented Sept. 22, 1891.

Fig. 1.

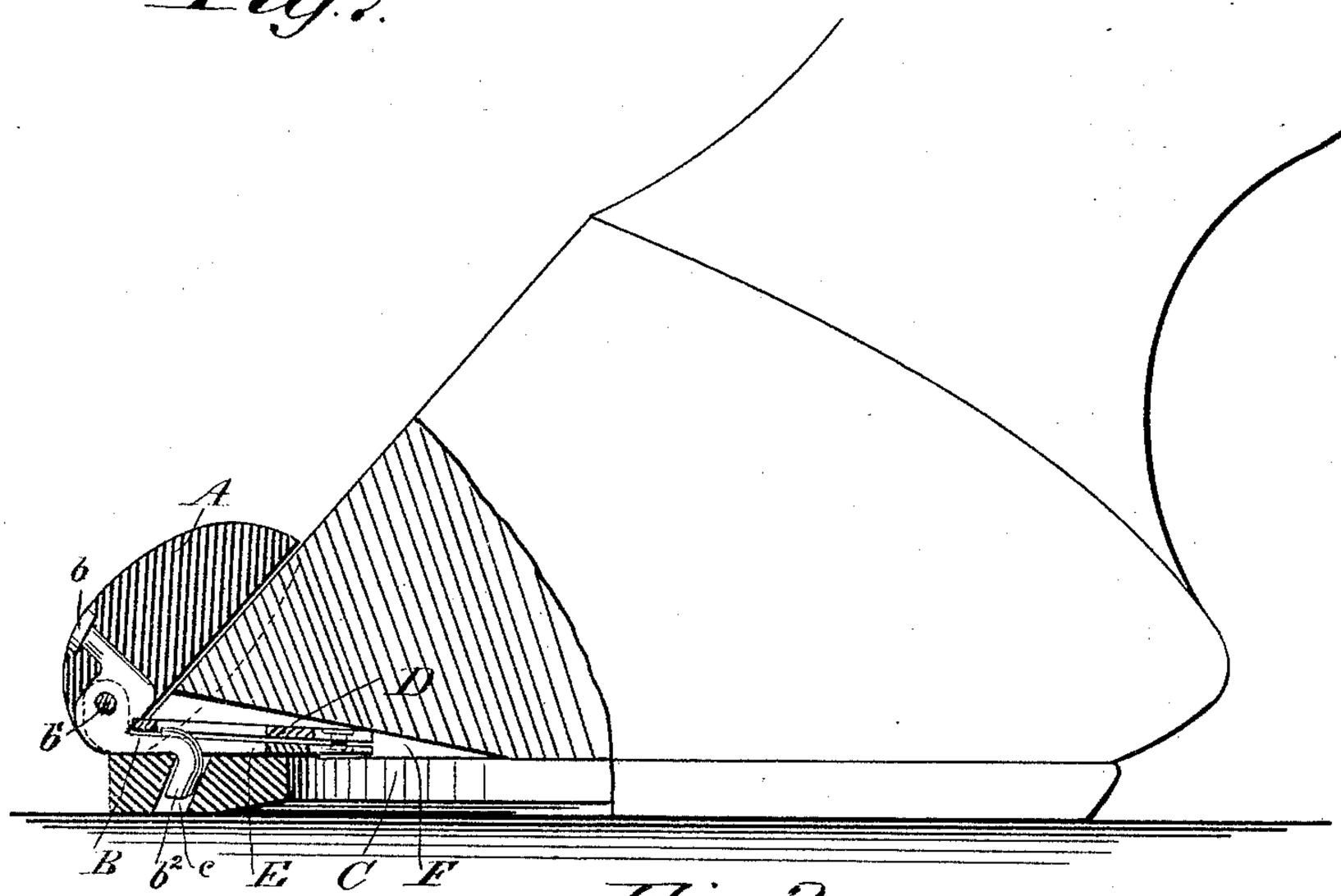


Fig. 2.

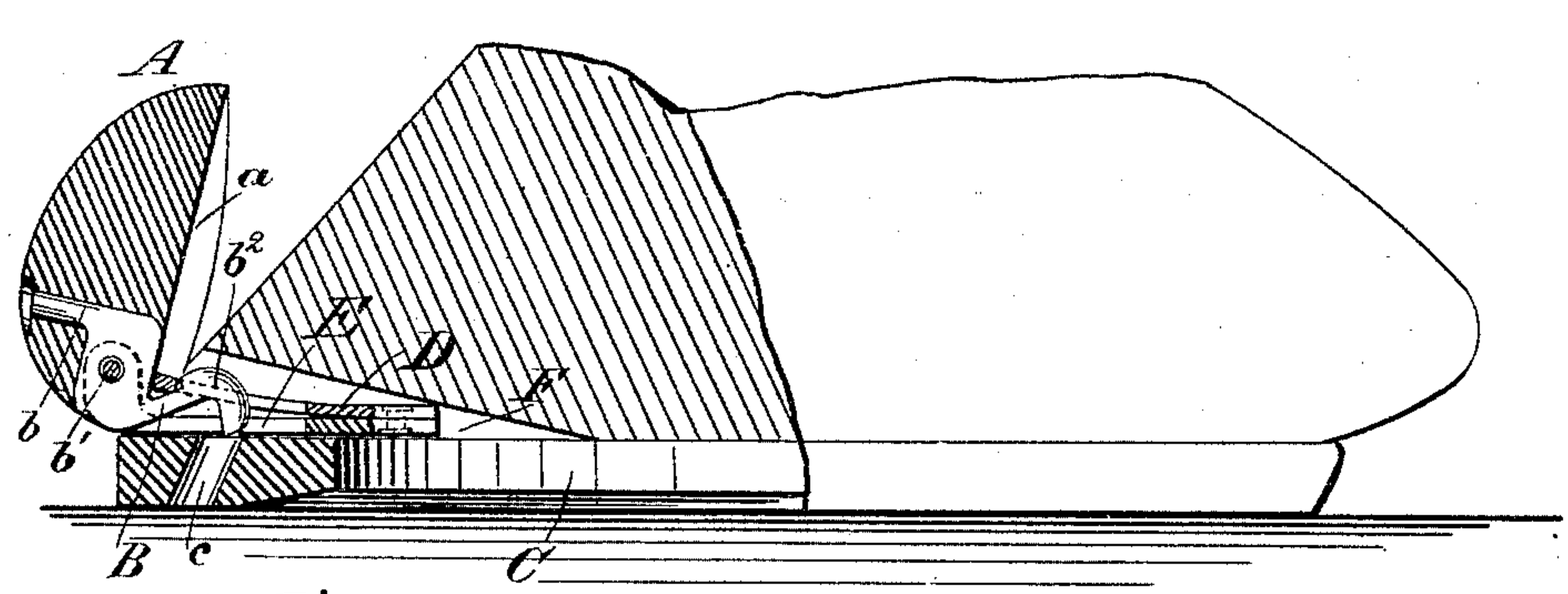
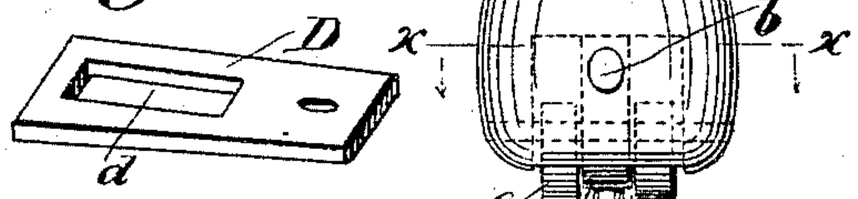


Fig. 3.

Fig. 6



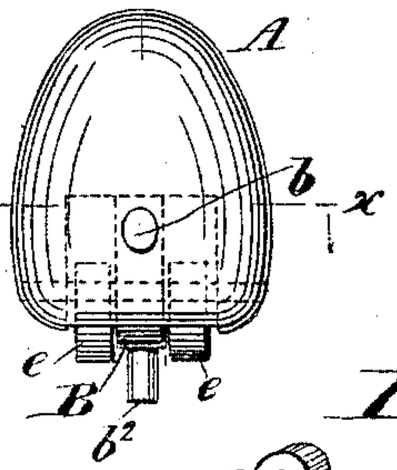


Fig. 5.

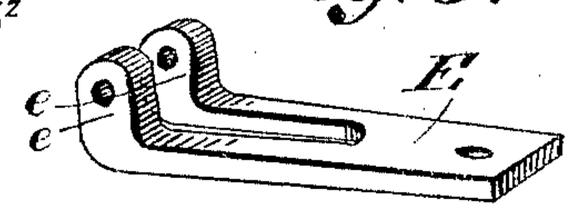
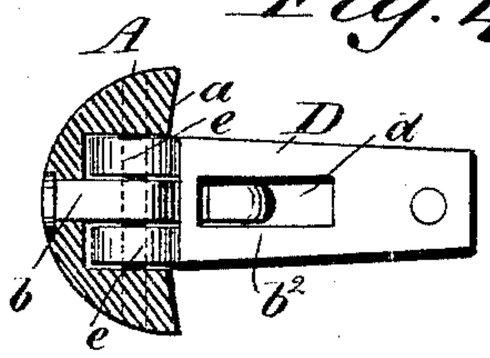


Fig. 4



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UNITED STATES PATENT OFFICE.

GEORGE R. KING, OF DALLAS, TEXAS.

WEIGHT FOR HORSES' HOOFS.

SPECIFICATION forming part of Letters Patent No. 460,017, dated September 22, 1891.

Application filed April 18, 1891. Serial No. 389,408. (No model.)

To all whom it may concern:

Be it known that I, GEORGE R. KING, of Dallas, in the county of Dallas and State of Texas, have invented a new and useful Improvement in Weights for Horses' Hoofs, of which the following is a full, clear, and exact description.

The object of the invention is to provide a toe-weight or side weight which will adjust itself to the inclination of the hoof to which it is applied, and, further, to provide a weight that will be self-locking, be effectively held against rattling, and be readily attachable and detachable.

To these ends the invention consists in the novel construction 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 of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation showing my improvement applied. Fig. 2 is a like view illustrating the manner of attaching and detaching the weight. Fig. 3 is a front elevation of the weight. Fig. 4 is a horizontal section taken on line $x\,x$ of Fig. 3; and Figs. 5 and 6 are detail views, to be hereinafter referred to.

In constructing a toe weight or side weight in accordance with my invention the weight A, of suitable size, is formed at its inner face a to approximate the general curvature of a horse's hoof, and at the lower end of the said weight a stud B is provided, said stud being formed on or secured to the weight in any suitable manner. In the form shown the stud is separately formed and has a shank b, which extends transversely through the weight and is riveted at its outer end. A pin b' further fixes the stud in place. The projecting end of the stud B is hooked, as at b^2, said hook having a slight inclination in the direction of the face of the weight, and is adapted to enter a corresponding recess c in a shoe C. In connection with the weight A thus formed I employ a plate-spring D, which is best shown in Figs. 4 and 6, said spring being secured to and supported from a plate E, which is best shown in Fig. 5. The plate E is forked at one end, the fork being formed with enlarged ends e, through which the pin b' passes, and thus hinges the said plate to the weight A. One end of the plate-spring D is secured to the free end of the plate E, and the free end of the spring D bears on the stud B inward from the hooked end b^2 thereof, the spring being preferably formed with an elongated slot d.

In applying the weight to the horse's hoof, the horseshoe having been formed with the recess c and the hoof recessed above the same, as at F, the plate E and its spring D are entered in recess F, after the manner shown in Fig. 2, the weight being moved on its hinge-pin b' until the hooked end b^2 of the stud B is brought above the lower side of the plate E. In this position the stud B will have been moved against the tension of the spring D, and immediately upon the parts being released the reaction of the spring will move the weight on its hinge-pin b', throwing the stud B into the recess c of the shoe and bringing the weight A against the hoof.

It will be seen that the weight is self-adjusting, as the spring will throw it snugly against the hoof, irrespective of the inclination of the latter, and, further, that all rattling will be effectively prevented.

The weight may be readily applied to any part of the hoof, either at the toe or sides, and readily removed, when required.

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

1. A toe or side weight having a stud projecting therefrom at its lower end for engaging a shoe, and a spring arranged to bear on said stud and maintain the weight in place, substantially as described.

2. As a new article of manufacture, a toe-weight having a stud projecting therefrom, a plate hinged to the weight adjacent to said stud, and a spring supported on said plate, substantially as described.

GEORGE R. KING.

Witnesses:
JULES D. ROBERTS,
JOSEPH J. ECKFORD.