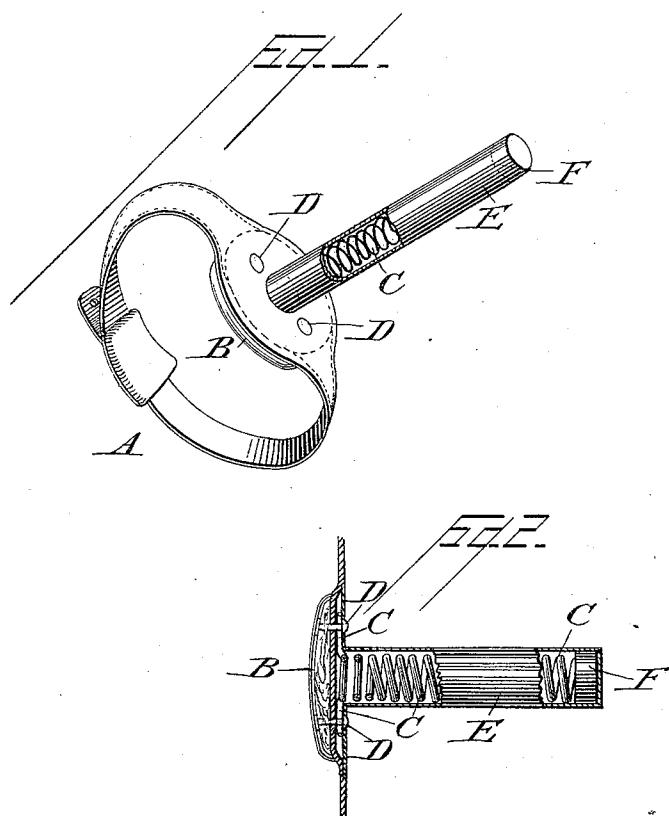


(No Model.) L. G. HAGUE & W. P. BOLLES.

HORSE SPREADING DEVICE.

No. 428,485.

Patented May 20, 1890.



Attest:

J. H. Schott
J. M. Copanhaver

Inventor

Louis G. Hague
William P. Bolles
By their Atty. W. A. Ruff

UNITED STATES PATENT OFFICE.

LUKE G. HAGUE AND WILLIAM P. BOLLES, OF BLOOMINGTON, ILLINOIS.

HORSE-SPREADING DEVICE.

SPECIFICATION forming part of Letters Patent No. 428,485, dated May 20, 1890.

Application filed February 14, 1890. Serial No. 340,393. (No model.)

To all whom it may concern:

Be it known that we, LUKE G. HAGUE and WILLIAM PADDOCK BOLLES, of Bloomington, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Horse-Spreading Devices; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to 10 which it appertains to make and use the same.

Our invention relates to improvements in spreading devices for horses, the object of the same being to provide means for educating or training horses to avoid traveling too close behind and to widen their gaits, which will add both to action and speed.

A further object is to provide a device of the above character which will be simple and economical in construction and durable and 20 efficient in use; and with these ends in view our invention consists in certain features of construction and combinations of parts, as will be hereinafter fully described, and pointed out in the claim.

25 In the accompanying drawings, Figure 1 is a perspective view of the device with part of the jacket removed, showing the coil-spring. Fig. 2 is a section showing attachment of the spring to the boot.

30 A represents a horse-boot, of any suitable construction, provided with the pad B. A coil-spring C is secured to said pad by means

of the rivets D, which embrace the ends thereof. The said spring is covered and controlled by a jacket E, made of any pliable material, 35 but preferably of leather or rubber. The free end of the spring is provided with a solid cap or head F to endure the wear thereon.

We do not confine ourselves to the use of any particular material in the construction 40 of the device, as it may be made of solid rubber or of coil-wire and a rubber or leather covering, or of other suitable material, the essential feature being to have the spreader constructed of any material combining the 45 properties of elasticity and sufficient stiffness to maintain a position at right angles to the boot.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination, with a horse-boot, of a spreader consisting of a wire coil secured to the boot, a solid head secured to the free end of said coil, and a jacket inclosing the coil 55 and head, substantially as set forth.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

LUKE G. HAGUE.
WILLIAM P. BOLLES.

Witnesses:

W. E. GAPEN,
S. R. GRIFFITH.