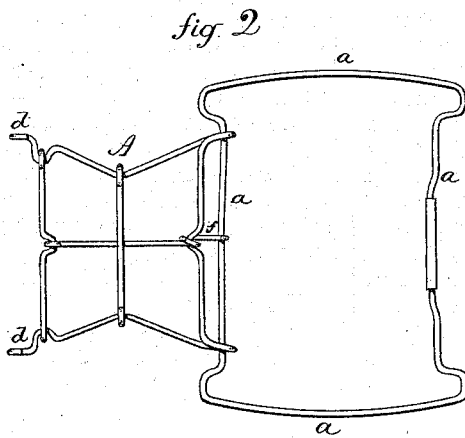
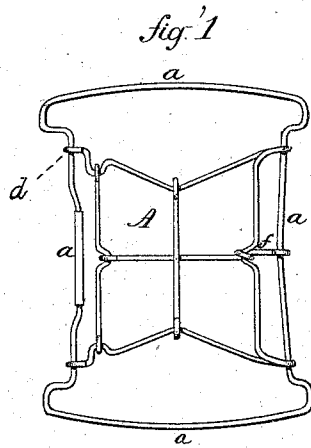


CHARLES A. WARREN.
Protector for Horse-Tails.

No. 127,002.

Patented May 21, 1872.



Witnesses.
W. A. Davis
A. J. Tibbitts

Charles A. Warren
Inventor.
By his Att'y.
John P. Earle

UNITED STATES PATENT OFFICE.

CHARLES A. WARREN, OF WATERTOWN, CONNECTICUT.

IMPROVEMENT IN PROTECTORS FOR HORSES' TAILS.

Specification forming part of Letters Patent No. 127,002, dated May 21, 1872.

To all whom it may concern:

Be it known that I, CHARLES A. WARREN, of Watertown, in the county of Litchfield and State of Connecticut, have invented a new Improvement in Protector for Horses' Tails; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a front view closed, and in Fig. 2, the same open.

This invention relates to a device for folding, knotting, or gathering up the tails of horses to protect them from the mud, &c., which would otherwise unavoidably collect among the hairs, the means heretofore used having been to knot or braid the tail; and the invention consists in a device upon which the tail may be wound or folded, and then secured in place by a frame folding onto the said device, as more fully hereinafter described.

a is a frame, which may be of any desirable form; but, practically, I find that shown in the drawing to be the best. To one side I hinge a frame or plate, *A*, formed by the interlacing of wires, or may be sheet metal, but hinged to the frame *a* so as to swing therefrom, as in Fig. 2, or to turn onto the frame and lock upon the opposite side in any convenient manner, here represented as hooks *d*, which lock upon opposite sides of the frame, the elasticity of the frame allowing it to engage within the

hooks, and not be easily disconnected. Open, as in Fig. 2, the tail is wound up onto the part *A* to the desired extent, and then the frame *a* turned over onto the tail and locked in place, which prevents the tail from unwinding. In order to form a spring, which shall tend to hold the two parts open, as in Fig. 2, I force the side to which the part *A* is hinged inward, and connect it to a shortened link, *f*; therefore, as the part *A* turns away from the part *a*, it carries with it the frame at that point where the link *f* is attached, and as the natural position of that side is to be curved outward, as in Fig. 2, it throws the part *A* back into an open position, as denoted in Fig. 2, retaining it in that position, so that in winding the tail the frame will not interfere.

It will be evident that the form of the parts may be varied without materially changing the construction—that is, the parts *A* and *a*—the one hinged to the other, so that the tail may be wound upon one and the other closed upon it, and the two locked together.

I claim as my invention—

The herein-described device for protecting horses' tails, consisting of the two parts *A* and *a*, hinged together to permit the winding of the tail upon one, and the locking of the two parts together after such winding, substantially as described.

CHAS. A. WARREN.

Witnesses:

A. J. TIBBITS,
JOHN E. EARLE.