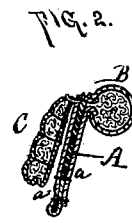
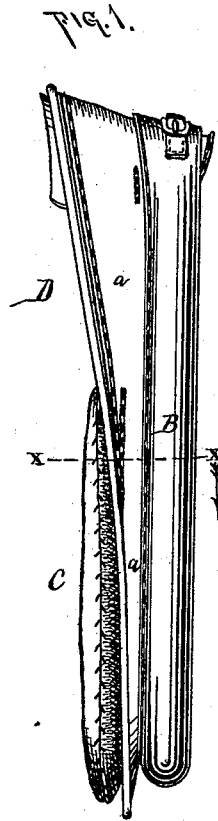
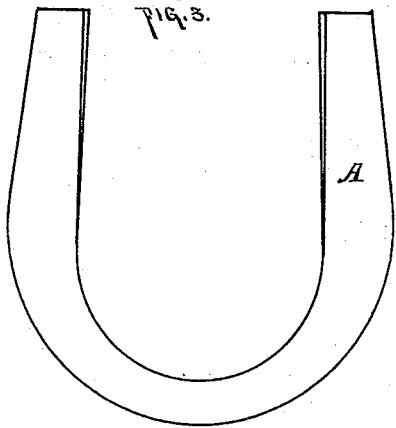


C. H. STEVENS.

HORSE-COLLAR.

No. 188,550.

Patented March 20, 1877.



Witnesses
James S. Murray
Forde R. Smith

By

Charles H. Stevens

Inventor

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Attorneys

UNITED STATES PATENT OFFICE.

CHARLES H. STEVENS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF
OF HIS RIGHT TO HENRY D. HUFF, OF SAME PLACE.

IMPROVEMENT IN HORSE-COLLARS.

Specification forming part of Letters Patent No. **188,550**, dated March 20, 1877; application filed
September 18, 1876.

To all whom it may concern:

Be it known that I, CHARLES H. STEVENS, of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Horse-Collars, of which the following is a specification:

In the accompanying drawing, which forms a part of this specification, Figure 1 represents a side view of one of my improved collars. Fig. 2 is a section of one limb thereof, taken on the line *xx* of Fig. 1, looking downward. Fig. 3 is a face view of the interior metal plate removed from its place in the collar.

Like letters in the several figures denote like parts.

The basis or foundation of my improved collar is the flat curved metal plate shown at Fig. 3, and marked A. This plate may be formed of any suitable metal; but I prefer to use steel, although, in some instances, where cheapness and ease of manufacture are especial objects, it may be deemed desirable to cast the plates of malleable iron. This plate A should be as thin and light as is compatible with the strength required, and should be formed as shown, so as to afford a continuous and even bearing upon the upper portion of the breast and the lower portion of the shoulders of the horse, terminating, however, above at a point sufficiently low to leave the point of the shoulder free to play above the rigid

portion of the collar. In order to connect it to the other parts of the collar, and to give it a proper shape for use, I incase this plate A in a leather casing, *a*, inclosing the metal at all points, and carried up over the neck above the metal to form the encircling collar. In front of this plate and its casing is the stuffed roll B, forming a guard to keep the hames in place. On the inside of the collar are affixed the pads C, to prevent the direct contact of the stiff portion of the collar.

I find by experiment that this collar will not sweat the horse, nor gall him, even in the worst of hot weather; and I have known it to cure badly-injured animals by allowing the sores to heal.

The point of the shoulder is left free, as the collar at this part (marked D) is perfectly flexible, and, in fact, does not come into contact with the animal with any pressure.

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

In a horse-collar, the combination of the metal plate A with the roll B, covering *a*, and pads C, substantially as shown and described, and for the purposes set forth.

CHARLES H. STEVENS.

Witnesses:

JOHN W. MUNDAY,
F. R. SMITH.