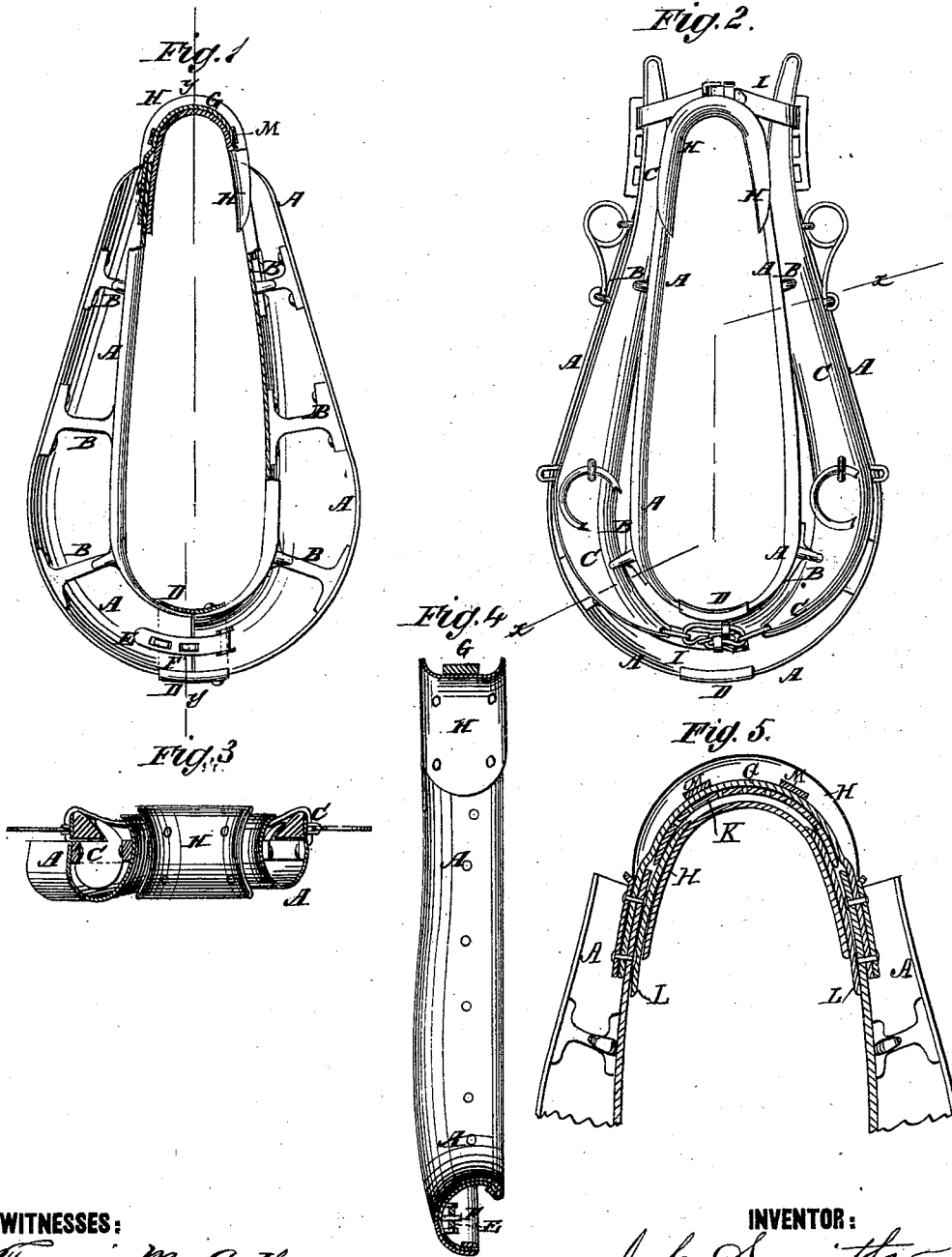


J. C. SMITH.  
Metallic Horse-Collars.

No. 203,950.

Patented May 21, 1878.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

JESSE C. SMITH, OF CENTERVILLE, IOWA.

## IMPROVEMENT IN METALLIC HORSE-COLLARS.

Specification forming part of Letters Patent No. 203,950, dated May 21, 1878; application filed November 26, 1877.

*To all whom it may concern:*

Be it known that I, JESSE CALVIN SMITH, of Centerville, in the county of Appanoose and State of Iowa, have invented a new and useful Improvement in Metallic Horse-Collars, of which the following is a specification:

Figure 1 is a front view of my improved collar, parts being broken away to show the construction. Fig. 2 is a front view of the same, showing the hames in place. Fig. 3 is a detail cross-section taken through the broken line *x x*, Fig. 2. Fig. 4 is a detail longitudinal section of the same, taken through the line *y y*, Fig. 1. Fig. 5 is a vertical sectional view of a modification of my invention.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved horse-collar, which shall be neat and durable, will heal all scalds, galls, bruises, sores, &c., upon the horse's neck and shoulders, and may be readily adjusted to the thickness of the horse's neck as he increases or decreases in flesh.

The invention consists in a horse-collar made of sheet-zinc, pressed into shape, and strengthened with malleable-iron stays, so formed as to also serve as a seat for the hames, as hereinafter fully described.

The collar is made in two parts, A, which are pressed into shape out of heavy sheet-zinc, and are strengthened by malleable-iron stays B, which are riveted or otherwise secured to the upwardly-curved outer and inner parts of the collar A. The stays B also serve as seats for the hames G, and have forwardly-projecting arms formed upon their inner parts for the inner sides of the hames C to bear against.

To the lower end of one of the parts A of the collar is attached a sole-leather fender, D, to receive the end of the other part A, where it is secured in place by a hasp, E, attached to one of said parts, and which hooks over a hook, F, attached to the other part. The hasp E has two or more holes formed in it to re-

ceive the hook F, to enable the collar to be widened or narrowed, as may be desired. The upper ends of the parts A of the collar are connected by a leather strap, G, which passes through keepers attached to the U-plate H. The U-plate H is so formed as to fit and rest upon the back of the horse's neck and support the collar and hames. The front and rear edges of the plate H are curved upward, to prevent them from chafing the horse as he moves his neck. The hames C are connected at their upper and lower ends, and are secured in place upon the collar A by straps I, in the usual way.

In the modification of my invention shown in Fig. 5 a perforated metallic cap, K, is placed over the U-plate, and covers about two-thirds of it. Said perforated cap is raised at its ends by means of leather skirts L, which pass down below the U-plate, and are secured to the latter by the rivets which also serve to retain the perforated cap and keepers M of the connecting-strap G. The perforated cap will give the necessary ventilation, and the leather skirts will prevent wear at the connection between the U-plate and the collar-sections.

The parts A are further strengthened by straps riveted to the inside of the inner edge, and on the outside of the outer edge they are secured by the rivets passing through the hame-stays.

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

A horse-collar, A, made of sheet-zinc, pressed into shape and strengthened by malleable-iron stays B, so formed as to also serve as a seat for the hames C, substantially as herein shown and described.

JESSE C. SMITH.

Witnesses:

J. J. TIBBITS,  
H. C. SMITH.