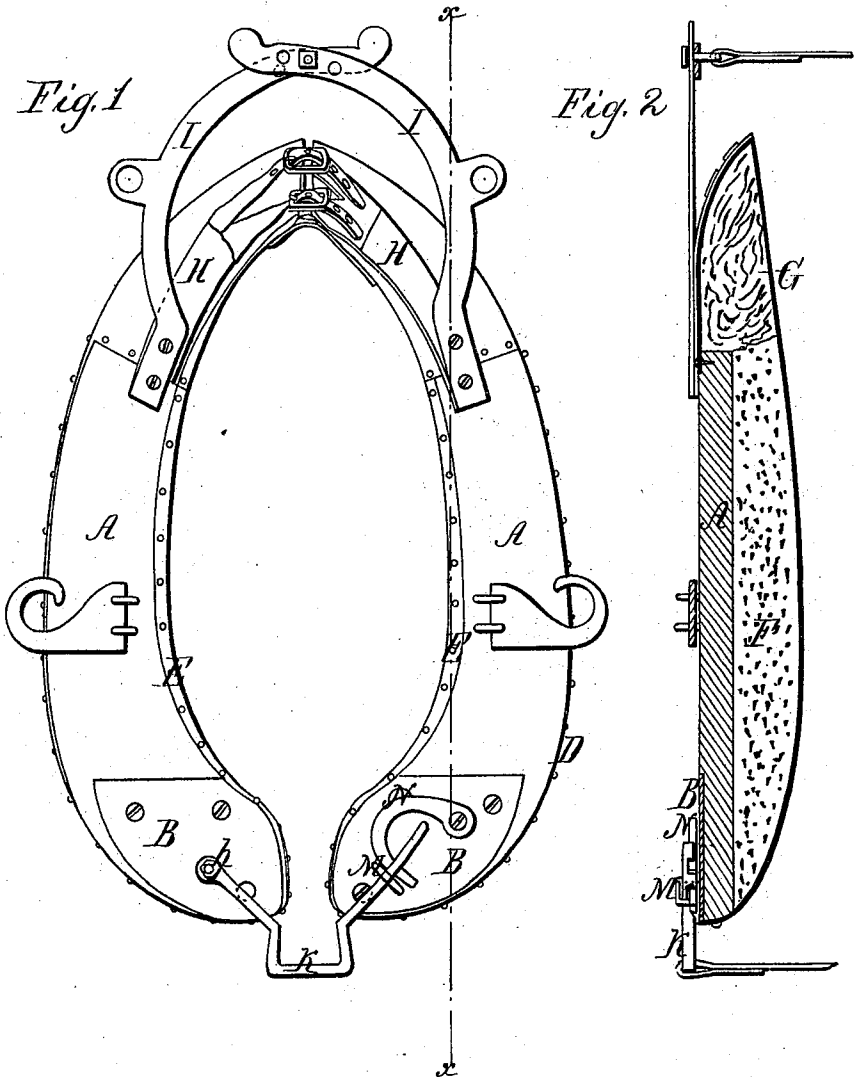


*J. H. Ferguson,*

*Horse Collar.*

*No. 100022.*

*Patented Feb. 22. 1870.*



Witnesses  
*Geo. W. Mabee*  
*John Brooks*

Inventor  
*J. H. Ferguson*  
PER *Merrill*  
atty

# United States Patent Office.

JAMES H. FERGUSON, OF GREENVILLE, INDIANA.

Letters Patent No. 100,022, dated February 22, 1870.

## IMPROVED COLLAR AND HAME FOR HARNESS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, JAMES H. FERGUSON, of Greenville, in the county of Floyd, and State of Indiana, have invented a new and improved Combined Hame and Collar; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to combined hames and collar, and consists in the combination of certain parts, as hereinafter specified.

Figure 1 represents a front elevation of a collar and hames constructed according to my improvement.

Figure 2 represents a section of the same, taken on the line *x x* of fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the parts of wood, armed with metal plates B at the lower ends. These parts constitute the main portion of the hames, and form also material portions of one side of the pads of the collar, the leather portion C thereof being tacked or otherwise fastened to the edges at D and E.

These wood parts A are not permitted to rise as high as the collar-bone of the shoulder of the animal, thereby preventing any undue pressure thereon, or on the muscles above that point.

The pads are stuffed as high as the wood parts A with coarse sawdust of soft wood, such as poplar, and above this point with moss.

F represents the sawdust, and G, the moss.

The employment of sawdust of this character, together with the attachment of the pads to the wood parts, gives to these pads a peculiar adaptation for use upon animals having sore breasts or shoulders, in that the sawdust can be very readily moved away from any particular part of the pad by pounding with a hammer, so as to make a depression; then, by screwing a wood-screw through the leather at the

bottom of the depression and into the wood, the depression may be maintained as long as desired. In this way the pads may be so fixed as not to bear on any sore place; and, when the place is cured, the screw may be removed, and the filling restored to fill the depression.

The two parts of the pad are united at the top by straps buckled together, and a common collar-pad may be used under the joint to prevent injury to the neck.

I represents curved metallic extensions rising up from the top of the wood parts A, to support the rein-rings. They are joined together at the top, where they lap, by a bolt, and this joint is made adjustable.

At the bottom a bail, K, is employed for connecting the two parts.

This bail is hung from a pivot-bolt at L, and the other end slides under a staple, M, and is provided with key-holes or slots on the side next the plate B, through which a key, N, passes, to secure it in place.

This bail is rigid, and prevents the two parts being pressed together when backing. It serves the purposes of a breast-chain as well as a fastening.

I am aware that connecting the upper ends of the hames by adjustable bars is not new, and I therefore disclaim it.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The combined hames and collar, consisting of the wooden parts A A, bail-connection K M N, pads E and G, and extensions I I, all constructed and arranged substantially as shown and described.

2. The bail K, pivoted at one end to one part of the said combined hames and collar, and connected with the other by the staple M and catch N, substantially as specified.

JAS. H. FERGUSON.

Witnesses:

E. S. COOPER,  
JOHN MCKOWN.