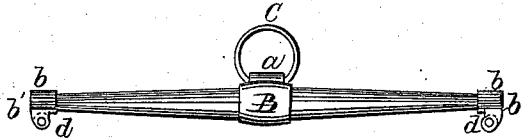


W. HULL.  
Neck Yoke.

No. 90.174.

Patented May 18, 1869.



Witnesses

*J. A. Ellis*  
*A. Smith*

Inventor.  
*W. Hull, Per.*  
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Atty.

# UNITED STATES PATENT OFFICE.

WESLEY HULL, OF FORT WAYNE, INDIANA.

## IMPROVED NECK-YOKE.

Specification forming part of Letters Patent No. **90,174**, dated May 18, 1869.

*To all whom it may concern:*

Be it known that I, WESLEY HULL, of Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Neck-Yoke; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which is represented a plan view of my neck-yoke.

The nature of my invention consists in attaching to each end of the yoke ferrules provided with friction-rollers, as and for the purpose hereinafter specified.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now describe its construction and operation.

In the accompanying drawing, A represents the yoke, to the center of which is attached the band B, provided with projection *a*, through

which is passed the ring C, for the tongue of the vehicle to enter. *b b* represent ferrules secured to each end of the yoke, and are formed with projections *b' b'*, into which are pivoted the friction-rollers *d d*, as seen in the drawing. Over these friction-rollers are passed the breast-straps. By this arrangement the friction is transferred from the strap to the roller.

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

The ferrules *b b*, constructed and secured to the yoke A, as described, and provided with rollers *d d*, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WESLEY HULL.

Witnesses:

DANIEL RYAN,  
S. E. SINCLAIR.