A. L. JOHNS.
Harness-Pad.

No. 209,403. Patented Oct. 29, 1878.

Fig. 1.

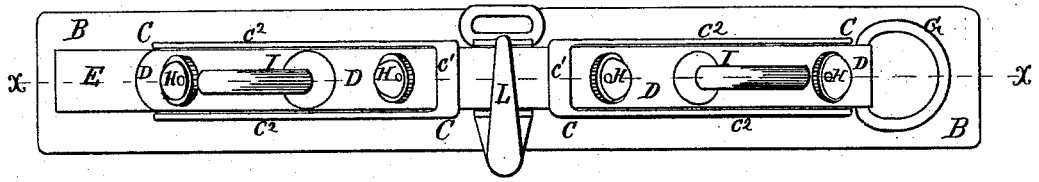


Fig. 2.

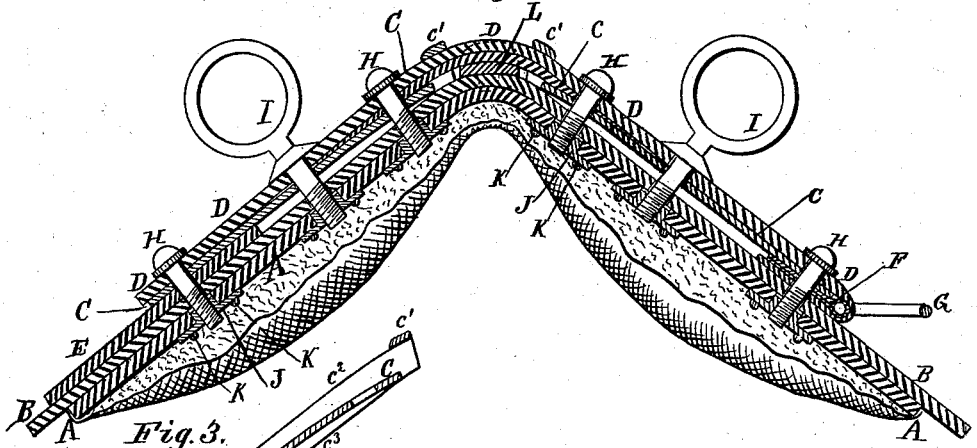


Fig. 3.

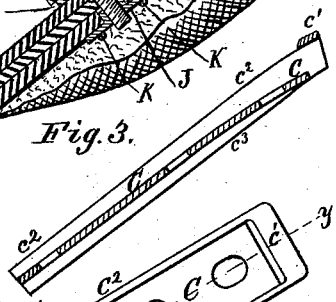


Fig. 4.

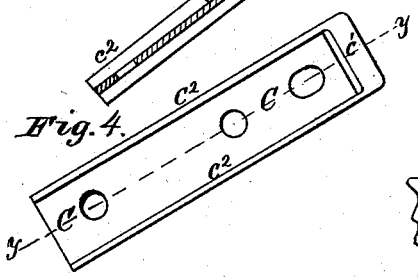


Fig. 5.

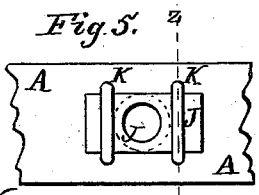
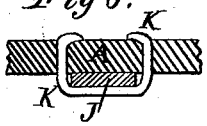


Fig 6.



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UNITED STATES PATENT OFFICE.

ALFRED L. JOHNS, OF FORT WAYNE, INDIANA.

IMPROVEMENT IN HARNESS-PADS.

Specification forming part of Letters Patent No. **209,403**, dated October 29, 1878; application filed April 10, 1878.

To all whom it may concern:

Be it known that I, ALFRED LEE JOHNS, of Fort Wayne, in the county of Allen and State of Indiana, have invented a new and useful Improvement in Harness-Pads, of which the following is a specification:

Figure 1 is a top view of a harness-pad to which my improvement has been applied. Fig. 2 is a longitudinal section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a detail longitudinal section of one of the pad-plates, taken through the line *y y*, Fig. 4. Fig. 4 is a detail top view of one of the pad-plates. Fig. 5 is a detail under-side view of a terret or pad screw nut and the strap to which it is attached. Fig. 6 is a cross-section of the same, taken through the line *z z*, Fig. 5.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish improved harness-pads which shall be so constructed as to make the pads simple in construction, more durable in use, and less expensive in manufacture, while at the same time being neat in appearance, strong, and compact.

A represents the pad, which is made in the ordinary shape and manner, and over which passes the pad-strap B, to the ends of which the belly-band is buckled, in the usual way. C C are the pad-plates, one of which is used upon each side, and upon their upper ends are formed loops c^1, through which the strap or layer D is passed. Upon the side edges of the plates C are formed upwardly-projecting flanges c^2, which increase in height gradually toward the upper ends of the said plates C, which form a cavity to receive the strap D and keep it from lateral movement. Upon the side edges of the plate C are formed downwardly-projecting flanges c^3, to form a space to receive the straps or skirt E, when used.

F is a clip or short strip of metal bent together at its center to form an eye to receive the ring G to support the traces and thill-strap. The straps D B, the plates C, and the pads A are secured together by the pad-screws H and the screws of the terrets I, which pass through the said straps D B, the plate C, and the top leather of the pads A, and screw into nuts J, secured to the under side of the said top leather of the pad.

These nuts have heretofore been secured in place by threads passed around their ends, and through the said top leather of the pads, which threads were liable to be weakened by the rust upon the said nuts J and cut by the working of the said nuts, so that after a time the nuts became loose, so as to turn with the screws H I, rendering it difficult to withdraw the said screws when desired. To remedy this difficulty, I pass the metallic staples K around the ends of the nuts J, pass their arms through the top leather of the pad A, and bend or clinch them upon the upper side of the said leather, as shown in Figs. 5 and 6. By this construction the nuts J will be held securely in place for any length of time.

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

1. The metal pad-plates C, made with loops c^1 upon the outer sides of their upper ends, and with the inwardly-projecting flanges c^3 upon their side edges, the said flanges c^3 gradually increasing in height from their upper to their lower ends, substantially as herein shown and described.

2. The burrs fastened to body of pad by means of staple, as and for the purpose specified.

ALFRED L. JOHNS.

Witnesses:
WM. A. STEIN,
CONRAD MAHRT.