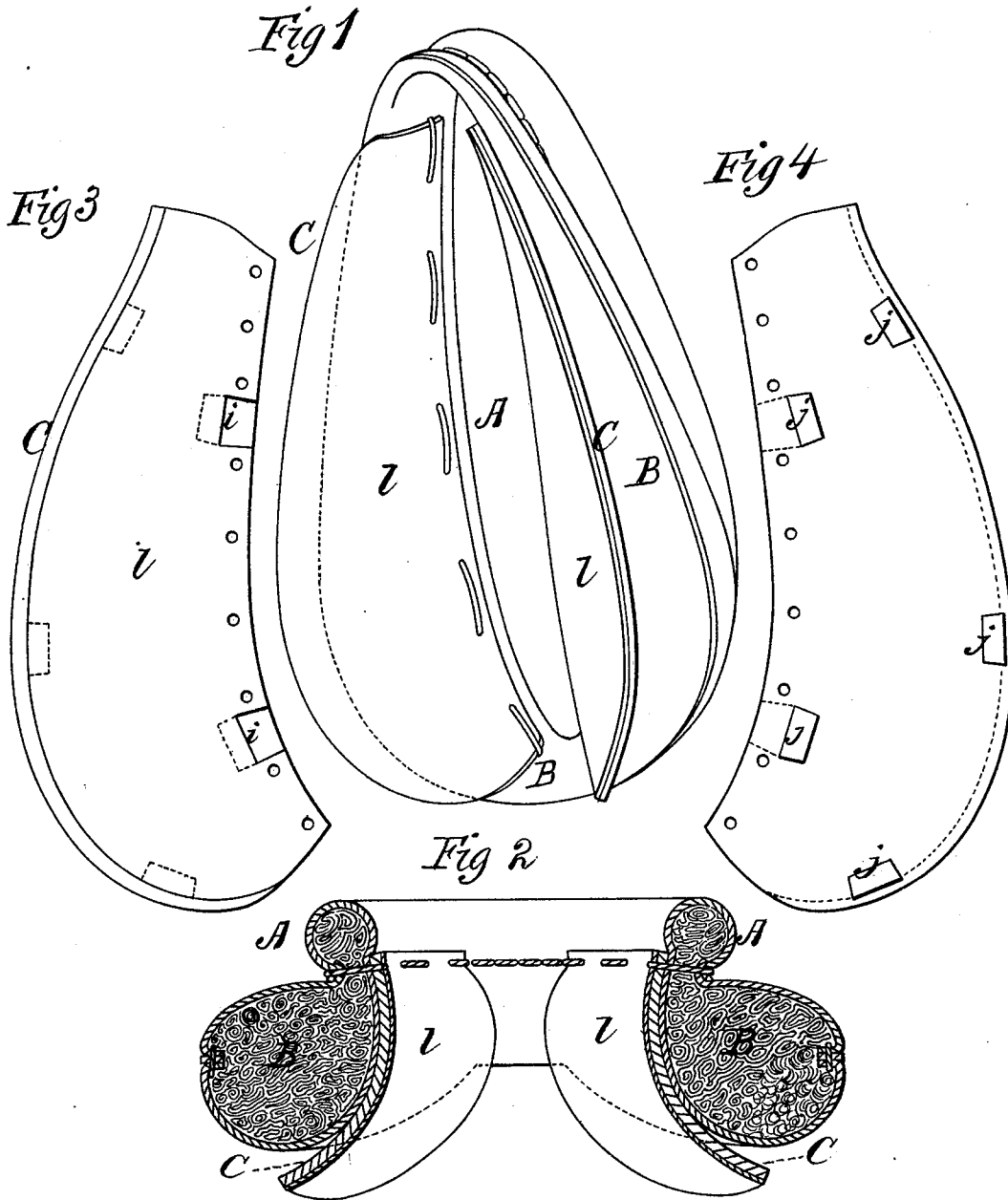


E. R. JONES.

SWEAT-PADS FOR HORSE-COLLARS.

No. 175,108.

Patented March 21, 1876.



Witnesses.
Villette Anderson.
F. J. Massi

Inventor.
Edward R. Jones
E. W. Anderson
Attorney

UNITED STATES PATENT OFFICE.

EDWARD R. JONES, OF WAVERLY, NEW YORK, ASSIGNOR TO ANNA W. JONES, OF SAME PLACE.

IMPROVEMENT IN SWEAT-PADS FOR HORSE-COLLARS, &c.

Specification forming part of Letters Patent No. **175,108**, dated March 21, 1876; application filed February 19, 1876.

To all whom it may concern:

Be it known that I, E. R. JONES, of Waverly, in the county of Tioga and State of New York, have invented a new and valuable Improvement in Sweat-Pads; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a rear view of my invention, attached to a horse-collar. Fig. 2 is a transverse section of the same. Figs. 3 and 4 are, respectively, front and rear views of a pad.

This invention has relation to improvements on horse-collars; and it consists, mainly, in a pad of any flexible material, which is secured to the interior of the collar, where it bears upon the neck or shoulders, which pad is provided with a sheet-lead facing glued or otherwise attached thereto, which, being coated with lead, paint, oil, and carbolic acid, and then varnished, will not only prevent sweating, but will also cure galls or sores already formed, all as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates an ordinary horse-collar, in connection with which I propose to illustrate my invention. The inner faces of the stuffed cushions B are provided with supplemental wings or pad-plates of leather C, covering all that portion thereof which bears against the shoulders and neck when the animal is moving or drawing a load. In practice this wing will be made of leather, but if I so elect I may use in lieu thereof canvas, felt, cloth, or any other flexible material. The bearing or outer surfaces of these wings will be provided with a facing, *l*, of thin sheet-lead, preferably of the description known as tea-lead, which, being exceedingly flexible and yielding, will readily adapt itself to the movements of the shoulders and muscles of the neck while the animal is in movement, and at the same time, by its cooling contact, prevent sweating and the consequent galling of the shoulders. In order to

render the outer surface of this leaden covering smoother and more healing than it would naturally be, it will be coated with a lead paint dissolved in oil, mixed with carbolic acid, which, having become dry, will in turn be given a good coat of varnish; or the oil, lead, varnish, and acid may be mixed together and applied simultaneously to the said surfaces with equally good results. Practical experiment has demonstrated that a collar supplied with the lead-covered pads or wings C above described will never gall the neck, and it has not infrequently occurred that the galls or sores already existing have been cured and healed without other treatment than the use of the said pads. In practice the lead covering will be glued to the pads, but I may sometimes cause slits *i* to be cut along the edges thereof, through which tongues *j*, in the same relative positions on the lead, will be passed, the said tongues being then clinched upon the under sides of the said pads, as shown in Figs. 3 and 4. I shall also, if I so elect, cause pads C to be extended over the top of the neck.

The lead facing is used, also, as a stiffening for the leather wings, and, while admirably serving this purpose, is sufficiently flexible to give to the movements of the shoulder and neck and to bend either way without cracking or breaking.

The neck-pad will be coated with the same curative compound as the wings, and I propose to apply the same covering of lead, coated, as above described, with oil, lead, paint, and carbolic acid, and then varnished, to the bearings of riding and gig saddles and to ordinary harness-pads, the varnish serving to prevent the escape by evaporation of the carbolic acid, as well as to give a smooth bearing-surface.

Lead, in its various combinations, is a sedative and astringent, and is frequently used externally as an abater of inflammation. The alterative, disinfectant and escharotic qualities of carbolic acid are too well known to require further mention herein.

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

1. The combination, with a horse collar, of the flexible lead-covered wings or pads C, substantially as specified.

2. The lead-covered wings or pads C, having a coating of lead, oil, carbolic acid, and varnish, substantially as specified.

3. In combination with a horse-collar, the wings or pads C, covered with lead provided with a coating of oil, lead, carbolic acid, and varnish on its outer surface, substantially as specified.

4. A flexible medicated sweat-pad, com-

posed of a leather or cloth back, and a lining of sheet or tea lead fastened thereto, and coated with lead and oil, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD RICHARDS JONES.

Witnesses:

P. S. DUNNING.

H. M. FERGUSON.