(No Model.) 2 Sheets—Sheet 1.

T. A. LONG.

HORSE COVER.

No. 302,506. Patented July 22, 1884.

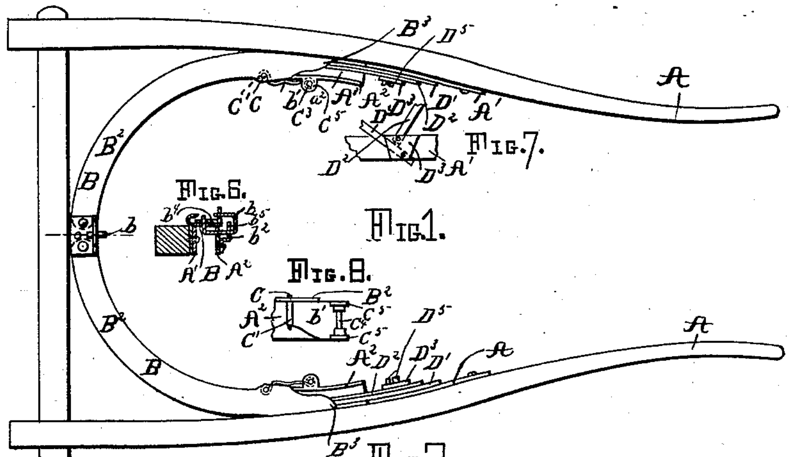


Fig.2.

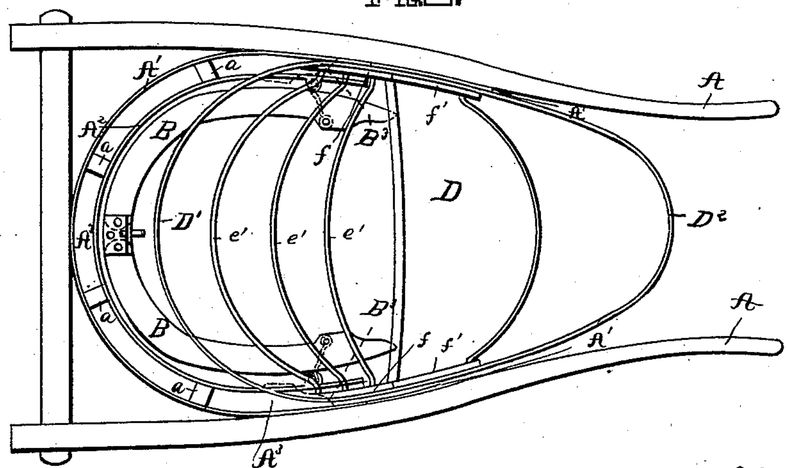
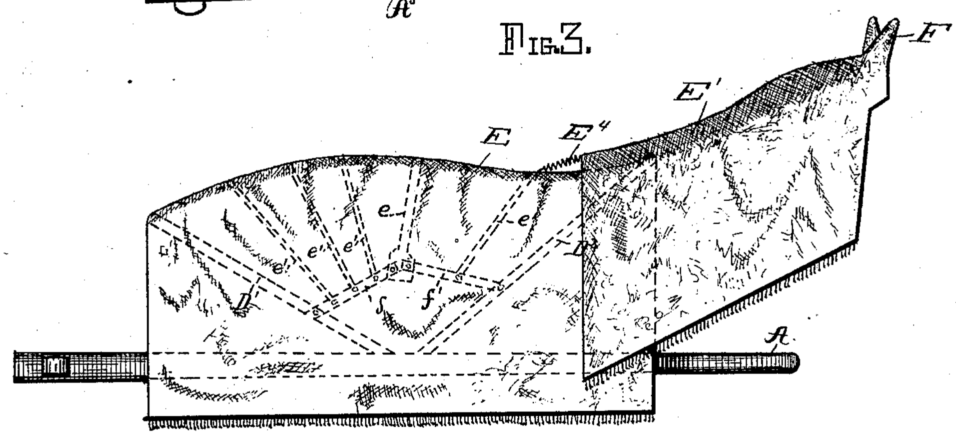


Fig.3.



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(No Model.) 2 Sheets—Sheet 2.

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HORSE COVER.

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FIG 4

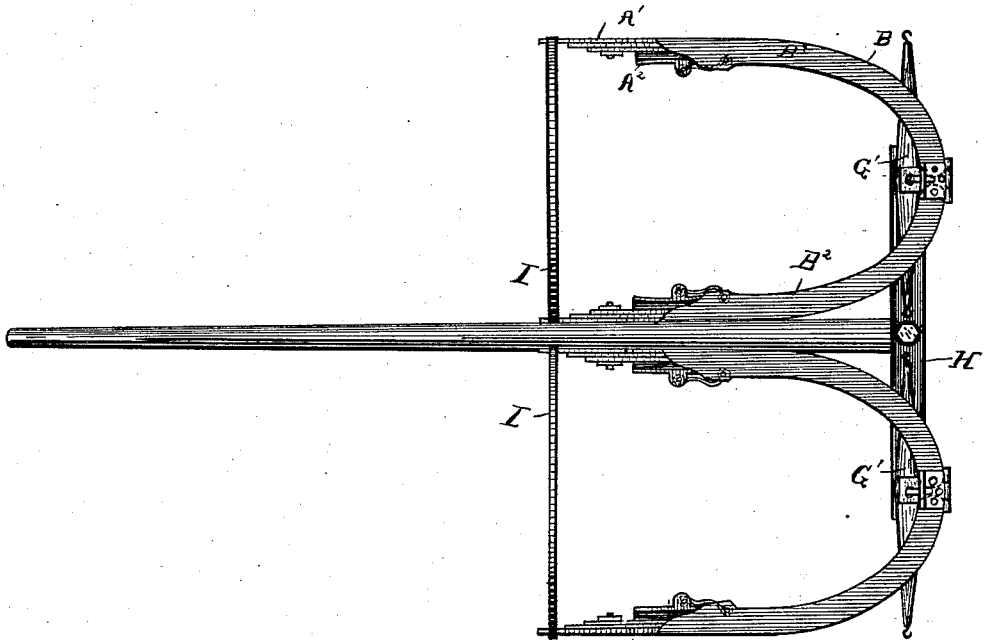
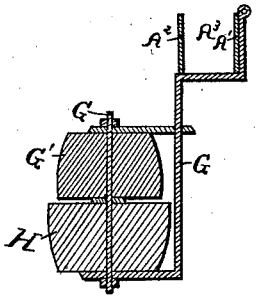


FIG. 5.



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UNITED STATES PATENT OFFICE.

THOMAS A. LONG, OF SWEET VALLEY, PENNSYLVANIA.

HORSE-COVER.

SPECIFICATION forming part of Letters Patent No. 302,506, dated July 22, 1884.

Application filed March 20, 1884. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. LONG, a citizen of the United States, residing at Sweet Valley, in the county of Luzerne and State of Pennsylvania, have invented and produced a new and original apparatus for covering horses when they are in active service, either single or double, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

The object of my invention is to furnish an adjustable weather shield or cover to protect horses from extreme heat and cold; and it consists in the peculiar construction and arrangement of the parts, substantially as hereinafter more fully shown and described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of my horse cover or shield as folded and incased. Fig. 2 is a plan view of the shield-frame unfolded. Fig. 3 is a side elevation thereof with the cover applied. Fig. 4 is a plan view incased as applied to double harness. Figs. 5, 6, 7, and 8 are detail views of my invention.

In the construction of my horse cover or sheld I rigidly secure to the shafts A the outer metallic strip, A′, and connect the smaller or inner band, A^2, by the metallic loops *a* to metallic strip A′, the loops *a* being riveted to the coincident inner band and strip. The union of the inner band, A^2, and the outer metallic strip or band, A′, forms the walls of case A^3, for reception of the weather-shield, which is folded down and lodged therein and then covered over by the hinged cover B, to protect the same when unused. The hinged cover B is composed of corresponding sections, B^2, pivoted together, adjustably connected to the inner band, A^2, by means of the staple or crooked guide *b*, and the two corresponding hinge-guides *b′*, the former guiding the cover in a horizontal plane as it is slid forward from over the semicircular case A^3, and the latter directing the metallic strips or plates hinged at a^2 toward each other and out from case A^3, to admit the folding down of shield D, as hereinafter referred to. The metallic bracket b^2, as shown in Fig. 6, is riveted to band A^2 on the inner side, at a central point thereof, and has projecting through an orifice formed in its vertical projection b^3 the crook or staple *b*, which is riveted in the upper face of the bracket-guide b^4, and this crook or staple *b* also projects through the coincident bracket-guide b^4, thus forming guide *b*. The coincident vertical pins C, projecting from the under side of the inner band, A^2, each project in corresponding sockets, C′, of the plates C^2, and form, in connection with the corresponding eyes, C^3, of the brackets C^5 and the hinged bar C^4, the hinged guides *b′*, for projecting toward each other, the metallic strips or plate forming the pivoted sections B^2. These sections also form supports for the pivoted shield D when thrown up into position, as shown in Fig. 2, as the shouldered ends B^3 thereof abut against the adjoining one of the hoops, forming shield D.

The shield D comprises the inner hoop, D′, and an outer hoop, D^2, both of which are pivoted to the metallic strip A′, and their ends are inclasped by the metallic plate D^3, through which the pivotal pins D^5 project, and as the hoop D^2 is pivotal at D^4, and above the hoop D′, the plate D^3, which serves as a guide for the hoops, directs the inner hoop, D′, against the pivotal pins D^5, and thus holds the shield steadfast as against being projected too far forward, while the shoulders B^3 of the sections B^2 prevent its being thrown backward, as shown in Fig. 2. The hoop *e* of the shield D is enlarged at either end, in order to jointly pivot thereto the inclined bars *f* and *f′*, which form its bearings, these bars being in turn pivoted at their opposite ends to the inner and outer hoops of the shield, and the hoops *e′* are pivoted to the inclined bars, as shown. These pivoted bars conjointly form the framework of a shield, which projects a distance above the horse's back sufficient to admit circulation of air, as hereinafter referred to.

The cloth or canvas cover E of the shield D is secured at top to the several hoops forming the shield-frame by ordinary means, and its front ends are slightly overlapped by the annex-cover E′. The annex shield-cover E′ is adapted as to size and contour, as shown, to protect the horse's neck, and it is provided with the ears F, which are fitted to inclasp the horse's ears in such manner as to form a support for the annex-screen at its upper end, its lower end having secured thereto the spi-

ral spring E^4, terminating in a hook, which is hooked to one of the hoops forming the screen or awning, as shown, and thus constructed it is an adjunct of the main screen or awning, and when desirable it may be dispensed with.

In order to adapt my weather-screen to double harness, I provide the bracket G, one for each single-tree G′, and secure it, by means of the nutted bolt G^2, to the cross-bar H of the vehicle, and then attach by ordinary means the screen-case (shown open in Fig. 5) upon the bracket, at its rear end, and secure its front ends by the strap I.

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

1. A horse cover or shield consisting of the shield-frame D, having the cover E and annex-cover E′, and case A^3, constructed and arranged as and for the purpose described.

2. The combination of the case A^3, the mechanism, substantially as described, for removing or adjusting its cover, and the cover B, substantially as shown, and for the purpose described.

3. The combination of the shield D, the plate D^3, and the pivotal pins B^5, substantially as shown, and for the purpose described.

4. The combination of the hinged cover B, having the shoulders B^3, and the shield D, substantially as shown and described.

5. The combination of the inner and outer hoops, D′ and D^2, the inclined bars *f* and *f′*, hoop *e*, and hoops *e′*, substantially as shown, and for the purpose described.

6. The combination of the shield-frame D, the cover E, and the annex-cover E′, having the spring E^4, substantially as shown, and for the purpose described.

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Witnesses:
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