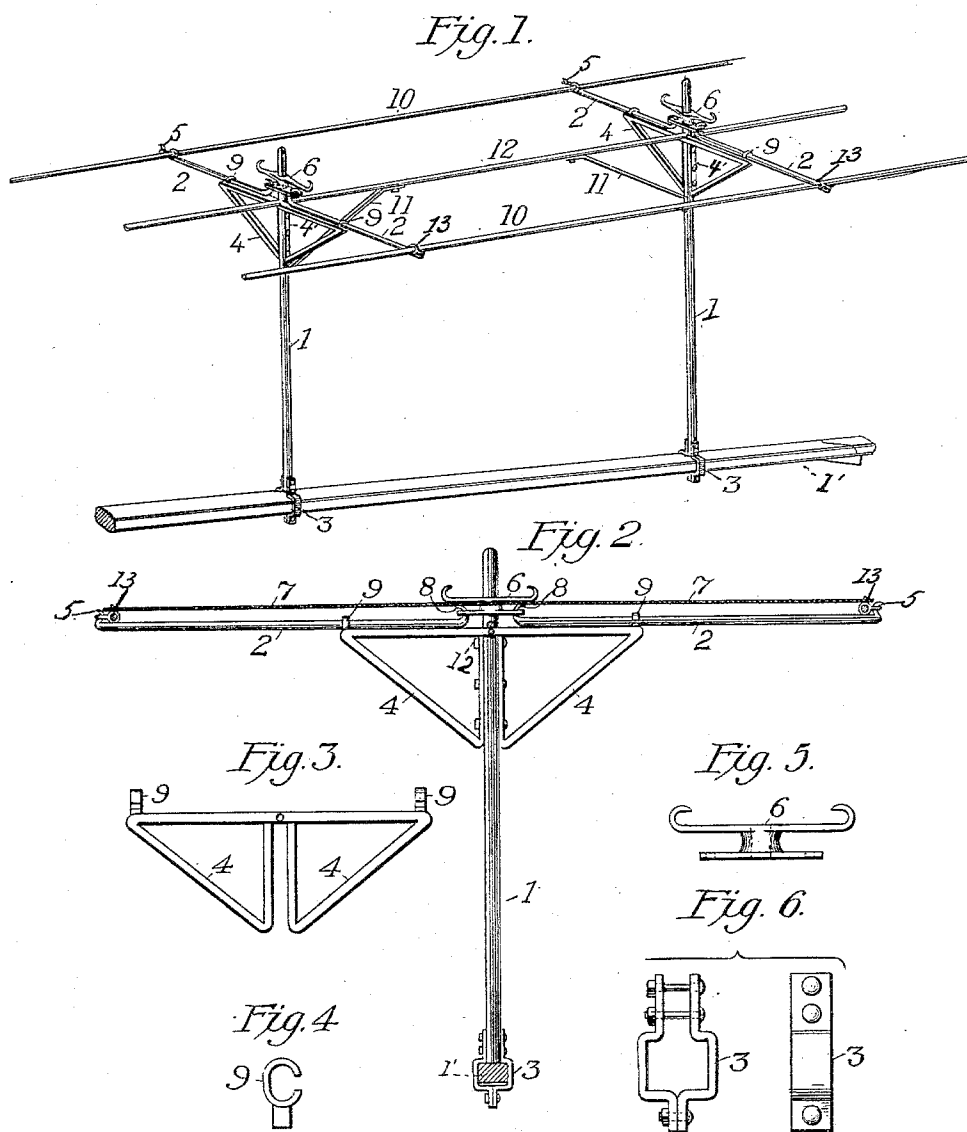


(No Model.)

H. A. MELVILLE.
HORSE SHADE.

No. 566,783.

Patented Sept. 1, 1896.



Witnesses.
Noel R. Byron
Warden G. Smith

Inventor.
Herrian Andrew Melville,

UNITED STATES PATENT OFFICE.

HERMAN A. MELVILLE, OF MILWAUKEE, WISCONSIN.

HORSE-SHADE.

SPECIFICATION forming part of Letters Patent No. 566,783, dated September 1, 1896.

Application filed May 11, 1895. Serial No. 549,017. (No model.)

To all whom it may concern:

Be it known that I, HERMAN ANDREW MELVILLE, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee, in the State of Wisconsin, have invented a Horse-Shade, of which the following is a specification.

My invention is for the protection of horses and harness from the fierce heat of the sun and the inclemencies of the weather while in service. I attain this result through the mechanism shown in the accompanying drawings and described in the following specification.

Figure 1 is an illustration showing the frame as adjusted to the tongue of a wagon. Fig. 2 is an end view of the machine, showing the parts as connected and the covering of canvas. Fig. 3 shows the double triangular brace with the arm-holders in position; Fig. 4, a view of an arm-holder. Fig. 5 shows the hook-and-ring plate. Fig. 6 is a side and end view of a clamp for the tongue.

The numerals 1 1 indicate standards or uprights which are adapted to be secured to the tongue 1' of a vehicle. These uprights or standards are preferably attached to the tongue by means of clamps 3 3, each of said clamps composed of two similar sections adapted to embrace the tongue and provided with upwardly-projecting extensions between which the lower end of each standard passes, being secured therebetween by means of transverse rivets or bolts, as clearly shown in Fig. 6.

Arranged near the upper ends of the standards are supports 4 4. Each of these supports consists of a horizontal arm, downwardly-extending inwardly-inclined braces, and upwardly-extending parallel arms 4' 4'. The uprights extend between the vertical parallel arms 4' 4', said arms being held thereto by means of transverse rivets passing through the arms and through the standards.

Upon the uprights 1, above the supports 4, are hook-and-ring plates 6. These parts 6 are each formed with a bottom ring, upper laterally-extending hooked arms, and a central tubular connection through which the upright passes.

The numerals 2 2 indicate sets of transverse arms which rest upon the tops of the

horizontal arms of the supports 4 and are provided at their inner ends with hooks 8, adapted to engage openings in the bottom ring portion of the part 6. By this connection the arms 2 are made fast to the uprights or supports, and at the same time rest upon the horizontal arms of the supports 4, being held to said supports by means of the holders 9, formed or provided at the corners of the horizontal arms. These holders are advisably of substantial C shape, and are placed upon the supports 4 with their openings toward the space between the uprights 1. The outer ends of the transverse arms 2 are provided with small hooks 5, which are adapted to engage horizontal eyes or rings 13, extending laterally from outer longitudinal rods 10 10.

The numeral 12 indicates a central longitudinal ridge-rod. This rod is preferably somewhat greater in diameter than the diameter of the outer rods 10 and passes through the uprights 1 above the supports 4 and just below the hook-and-ring plate 6. There are two braces 11 11, which fasten to the ridge-rod 12 and the uprights 1. These braces prevent the frame from swaying to and fro. Inasmuch as the ridge-rod 12 is greater in diameter than the tubes 10, it will support the weight of the canvas easier and make the frame stronger when braced to the uprights 1. The rods 10, 10, and 12 are of the same length and are encircled by small rings which are fastened to a canvas covering 7, thereby securing said covering fast to the frame.

When the shade or covering is not in use, the outer rods 10 can be rolled in the canvas 7 and the rolls placed upon the laterally-extending hooked arms of the parts 6. The arms 2 can also be taken out of the holders 9 and left suspended in the rings of the parts 6. In adjusting the frame together, all that is necessary to be done is to swing the arms 2 upwardly, so as to rest upon the horizontal portions of the supports 4 and to engage the holders 9 thereof. The rings 13 of the outer rods 10 are then made to engage the hooks 5 at the outer ends of the arms 2. It is evident that when the rods 10 are made to engage the hooks 5 the transverse or cross arms 2 are kept against the closed sides of the holders 9. The canvas in practice will be provided

with edge extensions to hang over the frame and will be advisably scalloped in order to add to the appearance.

It is obvious that by changing the uprights 5 or supports the device can be used for one or more horses and adjusted to any vehicle or rolling-stock.

Its advantages reside more particularly in the ease and facility with which the several 10 parts can be adjusted together or taken apart. When the parts are disassembled and not in use, by reason of the capability of the parts 6 to support the outer rods 10 and the cover rolled thereon the device will occupy a compact and small space.

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

1. In a horse-shade, the combination, of uprights or standards, a part engaging each 20 upright, said part provided with openings and with laterally-extending hooked arms, transverse arms having their inner ends provided with hooks to engage the above-mentioned openings, and outer longitudinal rods detach- 25 ably connected to the outer ends of the transverse arms.

2. In a horse-shade, the combination, of standards or uprights, supports, each provided with a horizontal arm, and with up-

wardly-extending parallel arms between 30 which the standards or uprights are secured, the horizontal arms provided with holding devices, transverse arms resting upon the horizontal arms of the supports, and releasably engaging the holding devices thereof, 35 and outer rods detachably connected to the outer ends of the transverse arms.

3. In a horse-shade, the combination, of standards or uprights, horizontal arms projecting therefrom and provided with holding 40 devices, transverse arms resting upon said horizontal arms and releasably engaging the holding devices thereof, said transverse arms provided at their opposite ends with hooks, a three-part device engaging each standard 45 or upright, the lower part being a plate provided with openings for engagement therewith of the hooked inner ends of the transverse arms, the central part being a tube or sleeve through which the standard passes, 50 and the upper part being laterally-extending hooked arms, and outer rods engaging the hooked outer ends of the transverse arms.

HERMAN A. MELVILLE.

Witnesses:

NOEL R. BYRON,

WORDEN G. SMITH.