SARAH RUTH.

Sun-Shades for Horses.

No. 134,564. Patented Jan. 7, 1873.

Fig. 1.

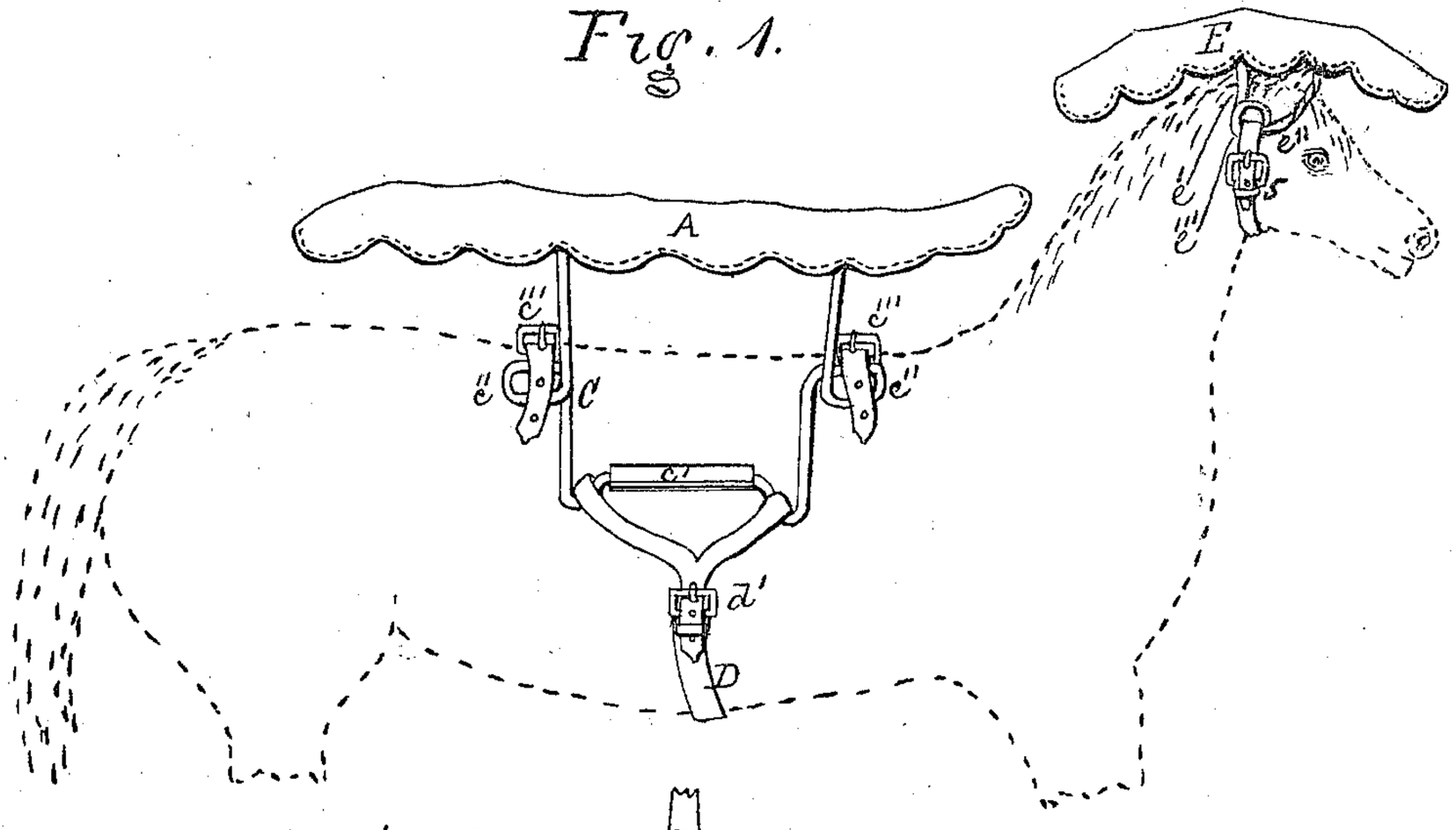
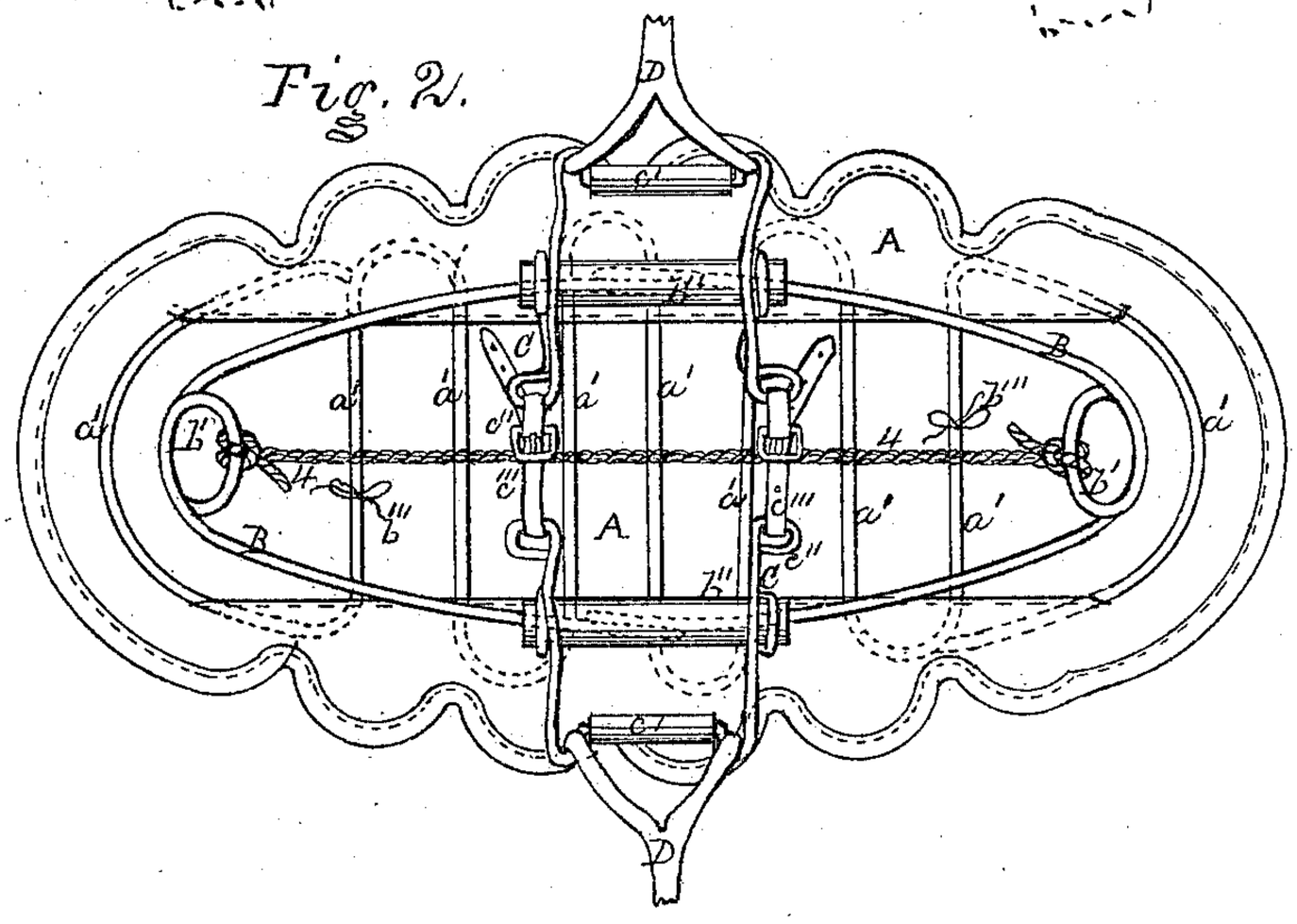


Fig. 2.



WITNESSES:

Benj Morison.

Wm H. Morison.

INVENTOR:

Sarah Ruth

UNITED STATES PATENT OFFICE.

SARAH RUTH, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SUN-SHADES FOR HORSES.

Specification forming part of Letters Patent No. 134,564, dated January 7, 1873.

To all whom it may concern:

Be it known that I, SARAH RUTH, of the city of Philadelphia, in the State of Pennsylvania, have invented certain Improvements in Adjustable Sun-Shades for Horses, of which the following is a specification:

My invention relates to the construction of the supporting-frame of the canopy for protecting the animal's back and sides from the direct rays of the sun, and to the devices for securing the same upon the body of the animal; the object of this part of my invention being to greatly lessen the cost of constructing sun-protectors, for which Letters Patent were granted to me, dated August 25, 1868; and also to allow the body-protector to be separate from and operated independently of the head-protector.

Figure 1 is a side view of the improved shade for the body of the animal, and of the shade for the head, both as when applied to the respective parts of the horse, represented by the dotted lines. Fig. 2 is a plan view of the under side of the body-shade.

A is the canopy of the body-shade, and is stiffened by a wire, *a'*, bent in a serpentine manner, and attached to the under side of A by an under lining of canvas. The wired canopy is supported directly upon two pieces of wire, B B, each bent into the form of the longitudinal section of a semi-ellipse, with the addition of a loop, *b'*, at its middle. These two pieces B B of wire have their free ends inserted in two respective hollow cylinders, *b'' b''*, of thin sheet metal, and secured to the canopy A by tie-strings *b''' b'''*; and a cord, 4, keeps them from slipping longitudinally in the tubes, and at any required distance apart to suit the length of the body of the animal, and the whole supported by two upright wires, C C, bent so as to form respective stays for retaining two respective hollow cylinders, *c' c'*, at their mid-lengths, to serve as friction-rollers, and with two loops, *c'' c''*, in the arms of each wire C C, and then the respective two ends of the said wire C secured tightly around the respective two ends of the two hollow cylinders *b'' b''*. The two wires C C are then adjustably connected together by two straps of leather, *c''' c'''*, and buckles attached thereto. These straps rest upon the horse's back, and thus keep the canopy A at a proper distance from the animal. Attached to the lower ends, respectively, of the said two wires C C, are two leather straps, D D, which connect together by a buckle, *d'*, and serve as a belly-band to secure the shade upon the body of the animal, either in a horizontal position across his back, or at any inclination to either side, as the slanting rays of the sun may render the adjustment of the canopy necessary, the friction-rollers *c' c'* permitting the supporting-wires C C to move freely during the said adjustment, and afterward to prevent any galling or fretting of the skin of the animal.

It will be understood, without any further explanation, that this shade can be readily applied and adjusted upon the body of the horse so as to protect the same from either the vertical or slanting rays of the sun, and that the same protection can be afforded thereby from rain; and, moreover, that the cost of construction, the frame being of common iron wire of sufficient stiffness, will be much less than that of the protector patented to me August 25, 1868, as before referred to.

The head-protecting canopy E, Fig. 1, is stiffened by a wire applied in the same serpentine manner as the wire *a'* in the body-canopy A, and is supported upon the head of the animal by means of a wire bent so as to form a bearing, *e'*, upon the top of the animal's head, and a bearing, *e''*, around the forehead, the bend of the said wire between the two bearings forming an eye or loop, *e'''*, to which are attached, respectively, the two parts of a "throat-latch" and a buckle, 5, for securing the said protector rigidly in place. The wire which forms the two bearings *e' e''* is continued along and around under the canopy E, and the latter secured thereto by tie-strings, thus together producing a more secure and substantial head-protector, and one entirely free from any interference from the body protector.

I claim as my invention—

A canopy for protecting the back and sides of the body of a horse or other animal from the direct and slanting rays of the sun, constructed substantially as described, and supported upon the animal by means of the supporting-wires B B C C, hollow cylinders *b'' b''* and *c' c'*, and the straps *c''' c'''* and D D, arranged and secured substantially as and for the purposes set forth.

SARAH RUTH.

Witnesses:

BENJ. MORISON,

WM. H. MORISON.