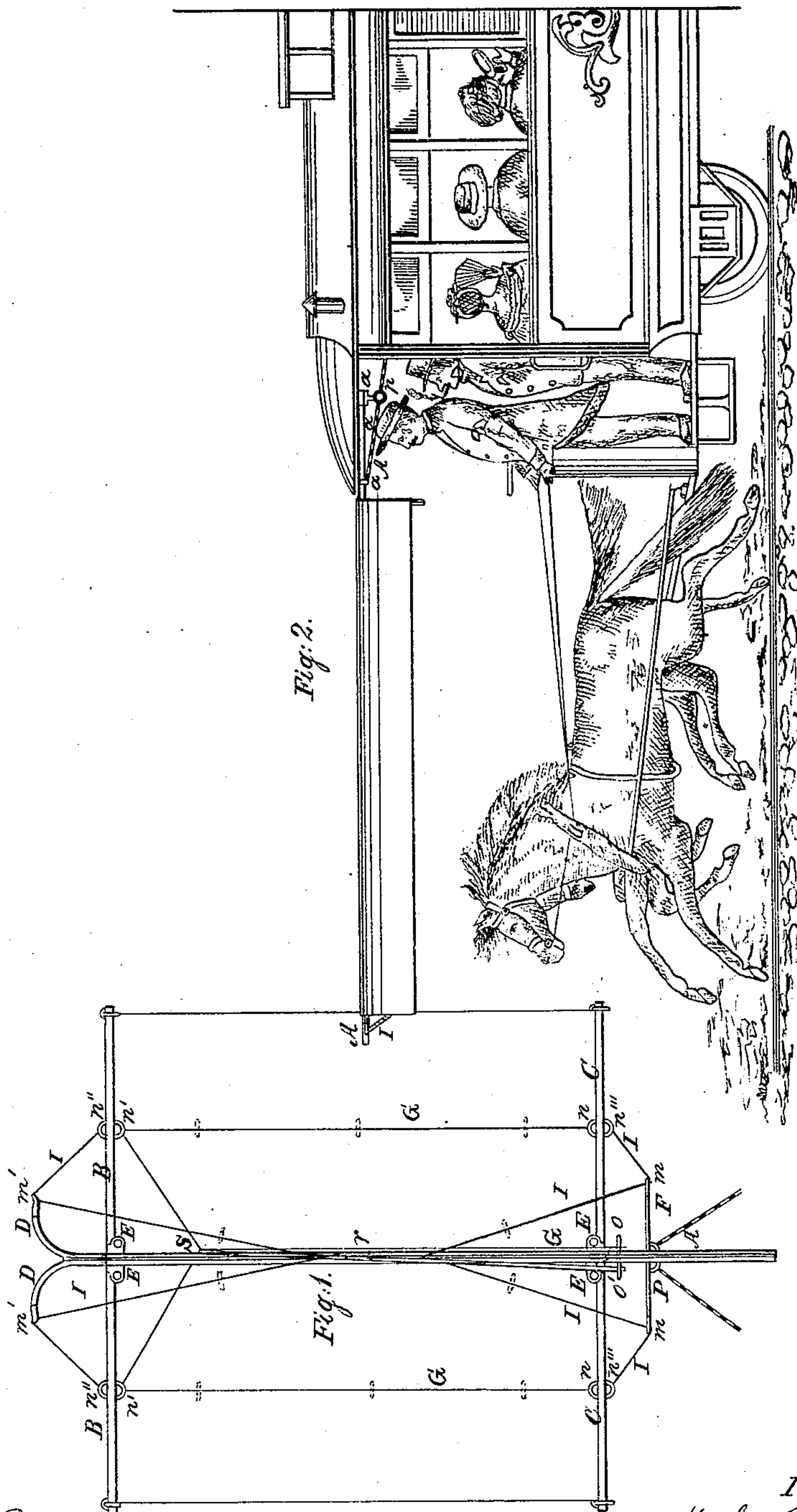


M. C. BATTEY.
Horse-Car Awning.

No. 84,160.

Patented Nov. 17, 1868.



Witnesses.
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MANFRED C. BATTEY, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 84,160, dated November 17, 1868.

AWNING FOR HORSE-CARS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, MANFRED C. BATTEY, of the city and county of Washington, in the District of Columbia, have invented a new and improved Awning for Horse-Cars; 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 accompanying drawings, making a part of this specification, in which—

Figure 1 is a top view of the frame without the canvas.

Figure 2 is a side view of the awning in use upon a car.

The object of this invention is to provide a neat, light, strong, and cheap attachable and removable awning, to be used in connection with horse-cars on street-railways, for the purpose of protecting the horses from the excessive heat of the sun.

The awning is supported by a pole, A, the rear end of which is fitted to be inserted into a socket or eye-bolts, *a a*, in the projecting roof of the car, as represented in fig. 2, and which may be kept from working out, if necessary, by means of a pin, *p*, set-screw, or other suitable device.

The ridge-pole A is provided with two downward-inclined arms or rafters, B B, near its forward end, and two more, C C, near its rear end, hinged to the pole, or to lugs on its sides, as shown at *e e*, and capable of being folded in against the pole, when not in use, or of being thrown out to the position shown in fig. 1, when it is desired to spread the awning to protect the horses.

The canvas, oil-cloth, or other material, D, is attached to the upper side of the pole A and ribs or rafters B C, as shown in fig. 2, suitable hooks, eyes, or other fastenings, being fixed to the several parts, to enable the cloth to be conveniently connected with or removed from the frame.

The parts being thus constructed, it is only further necessary to provide a simple and effective arrangement whereby the driver can readily fold the arms B C in against the pole A, or throw them out from it, as he may desire to spread or fold up the awning. This object is attained by fixing to the pole two arms, D D, at its forward end, and two more, F F, or a cross-bar, near its rear end, each fixed arm having an eye or pulley, *m m'*, through which a cord may be rove, and providing the hinged arms B C with suitable eyes or pulleys, *n n' n'' n'''*, for the same purpose, and attaching to the said arms two cords, one for folding the arms inward, and the other for throwing them out.

In fig. 1 the cord G, which folds the arms, is shown

in blue, and the other, I, which opens them, is represented in brown.

The ends of cord G are fixed to eye *n* on each arm C; thence the cord extends directly to the arms B B, as shown in fig. 1, where it passes through eye or pulley *n'*; thence the two ends are brought together and tied or spliced at *s*; and thence the cord extends back to a point just in front of the driver, and above him, where it passes through an eye or pulley, *o*, its loose end hanging within his reach.

The cord I has four branches, two having their ends affixed to eyes *n'' n'''* of arms B B, thence passing through pulleys *m' m'* on arms D D, and extending back towards the middle of the pole A, where they come together, and are tied or spliced, and thence extend in a single line through pulley *o'*, above the driver's head; the other two having their ends affixed to eyes *n'' n'''* of arms C C, thence passing through pulleys *n n* of arms F F, and extending forward towards the middle of said pole, where they are spliced or tied, whence they extend in a single cord through a pulley, *r*, and then back through the pulley *o'*, where they are fastened to the other end of the same cord I that has been just described as passing through said pulley. If desired, the end of rope I, where the two parts are thus joined together, after passing through pulley *o'*, can be fastened to the loose end of cord G, hanging from pulley *o*.

By drawing down upon the ends of cord I, hanging from pulley *o'*, the arms B C will be thrown out, and the awning spread, while by pulling upon the end of cord G, hanging from pulley *o*, the said arms are shut together against the pole A, and the awning is folded.

The operation of spreading or folding the awning is thus only the work of an instant, and can at any moment be performed by the driver, without stopping the team, or in any way interfering with its progress, or with his own work.

Having thus described my invention,

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

1. The combination of the pole A, and hinged arms B C, with a system of ropes and pulleys capable of folding or expanding said hinged arms in the manner described.

2. The arrangement of pole A, hinged arms B C, fixed arms D F, and ropes G I, substantially as described and shown.

M. C. BATTEY.

Witnesses:

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