

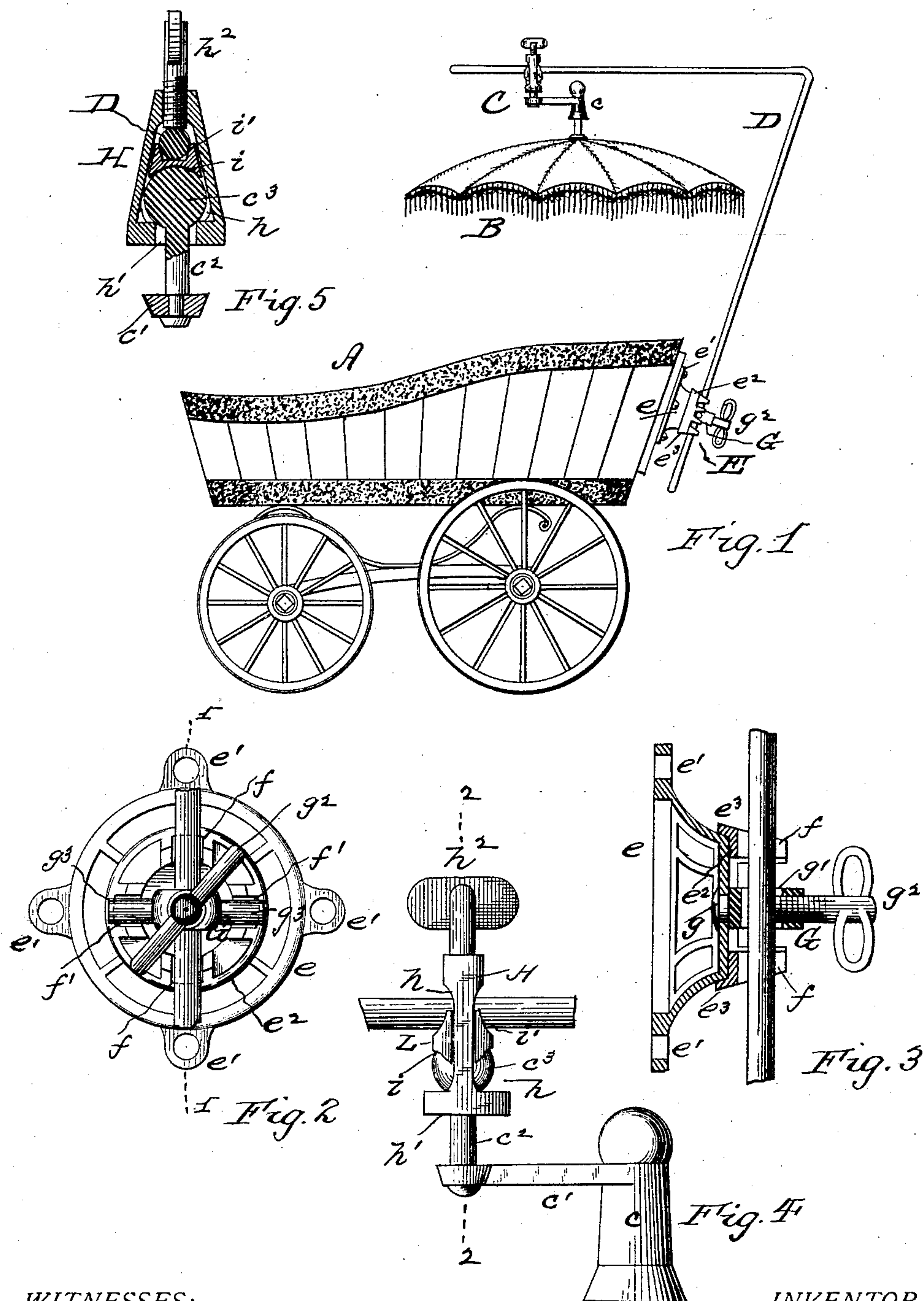
(No Model.)

G. W. PEARCE.

SHADE HOLDER CLAMP FOR CHILDREN'S CARRIAGES.

No. 341,272.

Patented May 4, 1886.



WITNESSES:
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GEORGE W. PEARCE, OF PHILADELPHIA, PENNSYLVANIA.

SHADE-HOLDER CLAMP FOR CHILDREN'S CARRIAGES.

SPECIFICATION forming part of Letters Patent No. 341,272, dated May 4, 1886.

Application filed December 30, 1885. Serial No. 187,168. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PEARCE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Clamping Devices for Shade-Holders for Carriages, of which the following is a specification, reference being had therein to the accompanying drawings, wherein—

Figure 1 is an elevation of a baby-carriage, showing a sun-shade, its holder, supporting-bar for the latter, and a clamp for said bar embodying my improvements. Fig. 2 is a face view of the clamp and set-screw for the shade-holder bar, a portion of the latter being shown. Fig. 3 is a section on line 1 1, Fig. 2. Fig. 4 is an elevation of the shade-holder and a part of the bar to which it is attached; and Fig. 5 is a section on the line 2 2, Fig. 4.

My invention has relation to clamps for the rod or bar supporting the sun-shade holders of baby-carriages or other vehicles and to the sun-shade holder; and it has for its object to provide a clamp for the shade-holder bar or rod in which the latter is vertically adjustable for either raising or lowering the shade, and by means of which said rod or bar can of itself be adjusted or oscillated laterally more or less to place the shade at different angular positions on either side of the carriage to protect the occupant.

My invention has for its further object to combine with said clamp and vertically adjustable and laterally moving rod or bar a shade-holder for placing the shade either to the front or back or to either side of the occupant of the carriage and at different angles in any of its adjusted positions independently of the adjustment afforded by the use of the clamp for the shade-holder rod.

My invention accordingly consists, first, of a clamp composed of a base-plate, a rotating ring, and a swiveled socket or frame engaging with the ring to hold it in place, and having an opening for the passage of the sun-shade holder bar, and a set-screw for the bar, which also engages with the ring, whereby when the set-screw is loosened the bar is adapted to be either adjusted vertically or oscillated from side to side, or both of these manipulations may be performed, and when the set-screw is

tightened it clamps the bar upon the ring and the latter upon the base-plate to firmly maintain the bar in its adjusted position.

My invention further consists in combination with said clamp and bar of a sun-shade holder composed of a socket attached to or depending from one end of a bar arranged at right angles to the socket, which bar has at its other end an upwardly-projecting pin terminating in a ball, a frame movable upon the shade-holder bar, into which passes said ball, a loose block in the frame shaped to conform to the ball, to provide a ball-and-socket joint between said frame and shade socket-bar, and a set screw for said frame to fasten it and clamp the shade socket or holder in position upon the shade-holder bar, whereby the shade may be moved to any side or end of the carriage and adjusted in different angular positions from a horizontal plane.

My invention still further consists of the combination, construction, and arrangement of detail parts, as hereinafter more particularly described and claimed.

In the drawings, A represents a baby-carriage, vehicle, or other fixture; B, the sun shade or umbrella; C, the shade-holder; D, the bent or bowed shade-holder bar, and E the clamp for said bar.

The clamp E consists of preferably a round skeleton or other base-plate, e , having lugs e' with openings for the passage of screws or other devices for fastening the same to a fixture, and of a loose ring or disk, e^2 , having preferably a downwardly-projecting edge flange, e^3 , to fit over the periphery of the outer surface of base-plate e , as more plainly shown in Fig. 3. Upon the outer face of ring e^2 are notches $f f'$, and at right angles to one another, the sides of each of these notches preferably converge or incline toward each other from above downward to make the notches more or less wedge shape, as illustrated.

To the center of plate e is swiveled in any suitable manner, or as shown at g , a socket or frame, G, having an elongated opening, g' , a set-screw, g^2 , and side lugs, g^3 , which enter notches f' in ring e^2 , as plainly shown in Figs. 1 and 2, to cause said socket or frame to engage with the ring and keep it in position upon base-plate e , so that it cannot fall off, be displaced, or lost when the clamp is not at-

tached to a fixture. The opening g' in socket G is in line with the other diametrical notches f , as shown, so that the bar D must engage with these last-named notches as it is passed through the socket-opening g' . When the set-screw g^2 is loosened, the rod or bar D slides loosely in the socket-opening g' and through the ring-notches f ; hence the bar may then be raised or lowered. At the same time the ring e^2 , bar D, and socket G may be rotated or oscillated from side to side across the back of the carriage to place the bar at an angle to the perpendicular, and, as a shade or umbrella attached to said bar partakes of said movements, it may therefore be raised or lowered and also adjusted to an angular position on either side of the carriage to protect the occupant thereof. When the set-screw g^2 is turned or screwed up, it impinges against rod D, which in turn impinges against the sides of the wedge-shaped notches f of ring e^2 , to firmly clamp the rod to the ring and the ring to the base-plate to maintain the rod and shade in their adjusted positions.

Any form of shade-holder may be used; but I have shown a described form of same as it can be manipulated to place the shade in an angular position without giving a lateral movement to bar D; but the latter coacts with said holder in so far that the height of the shade can only be varied by vertically adjusting bar D.

The holder C consists of a socket, c , depending from one end of a bar, c' , which has at its other end an upwardly-projecting pin, c^2 , terminating in a ball, c^3 .

H represents a socket or frame having elongated vertical slot or opening h , and a bottom opening, h' . Through the latter passes the pin c^2 of bar c' , so as to place ball c^3 within said frame. This is done before the pin c^2 is connected to bar c' in putting the parts of the holder together, and whereby said frame and holder are connected.

Through opening h passes rod D, and between it and the top of the ball c^3 is a loose block, L, having a concave or semispherical under side, to form a bearing, i , for the ball c^3 , and provide a ball-and-socket joint or connection between frame H and holder-bar c' . The top of block L is preferably grooved, as shown at i' , to fit around the bar D.

At the top of frame H is a set-screw, h^2 . By loosening screw h^2 and turning frame H about rod D the shade can be either adjusted to different angular positions on either side of the

carriage, or the bar c' may be rotated in its bearings to move the shade toward the front or to the back of the carriage, and be made to assume any angular position within the range of movement of the ball-and-socket joint of bar c . By tightening screw h^2 the frame H is drawn upwardly to clamp the ball c^3 between the lower end of frame H and block L, and the latter to the rod D, to fasten the frame to said rod and hold or firmly secure the rod c and shade in their adjusted positions.

What I claim is—

1. The clamp E, composed of a base-plate, a loose ring having notches or recesses on its outer face, and a swiveled socket, G, engaging with said ring, and having a set-screw, g , substantially as shown and described.

2. A clamp, E, composed of a base-plate, a loose ring, and a swiveled socket having a set-screw and engaging with said ring, in combination with a bar passing through said socket and engaging with said ring, whereby the bar is adapted to be raised or lowered and rotated or oscillated from side to side, as set forth.

3. The combination of plate e , loose ring e^2 , having right-angle notches $f f'$, socket G, swiveled or journaled to plate e , and having opening g' , set-screw g^2 , and lugs g^3 , for engagement with one set of the notches on ring e^2 , substantially as shown and described.

4. A clamp composed of a base-plate, a loose ring, and a socket swiveled to said base-plate, and having a set-screw, and engaging with the ring to retain it upon the base-plate, substantially as shown and described.

5. In combination with rod D and clamp E, of a frame, H, on rod D, and having a set-screw, h^2 , a loose block, L, in said frame, and a horizontally-rotating shade-holder bar, c' , having a ball-and-socket joint with said block and frame, as set forth.

6. In combination with rod D and clamp E, constructed substantially as shown and described, the holder C, composed of frame H, having set-screw h^2 , loose block L, bar c' , having at one end a shade-socket, c , and at the other a ball-and-socket connection with said frame and block, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. PEARCE.

Witnesses:

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