

(No Model.)

A. B. STEVENS.
UMBRELLA SUPPORT.

No. 358,497.

Patented Mar. 1, 1887.

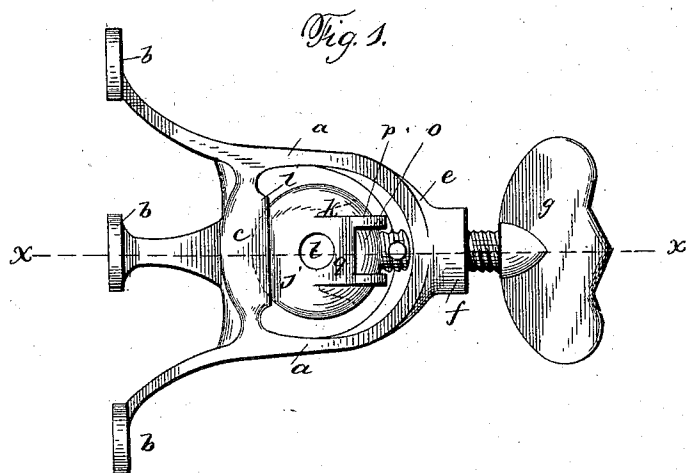


Fig. 2.

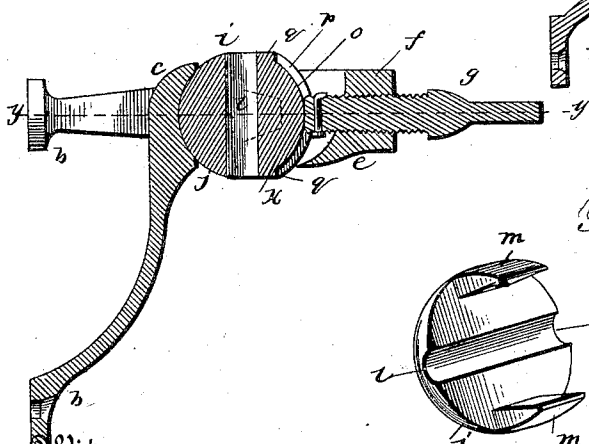
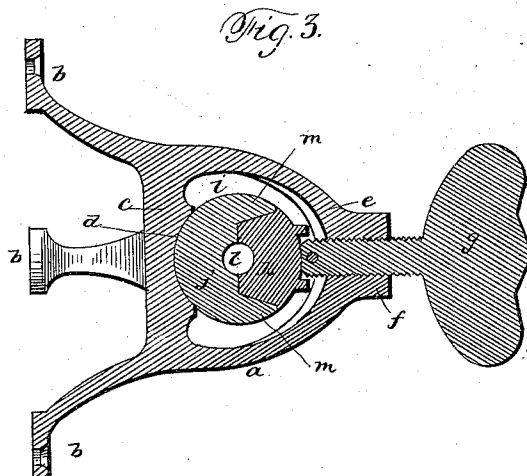
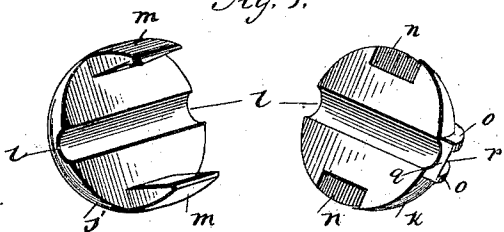


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

ASHER B. STEVENS, OF NEW BRIDGE, NEW JERSEY, ASSIGNOR TO HEYWOOD BROS. & CO., OF GARDNER, MASSACHUSETTS.

UMBRELLA-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 358,497, dated March 1, 1887.

Application filed December 28, 1886. Serial No. 222,770. (No model.)

To all whom it may concern:

Be it known that I, ASHER B. STEVENS, a citizen of the United States, residing at New Bridge, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Umbrella-Supports, of which the following is a full, clear, and exact description.

This invention relates to that class of devices technically denominated "umbrella-supports," the same being used more particularly for supporting umbrellas on baby-carriages.

The invention consists in an "umbrella-support," so called, in which the "stick" or rod of the umbrella is clamped at any desired vertical adjustment, and at the same time may be given any lateral and any backward and forward adjustment to bring the umbrella in desired position to shield the occupant of the carriage, the construction and operation of the device being substantially as hereinafter particularly set forth and claimed.

In the accompanying drawings, in the several figures of which like parts are similarly designated, Figure 1 is a top plan view; Fig. 2, a vertical section taken in the plane of line *x x*, Fig. 1. Fig. 3 is a horizontal section taken in the plane of line *y y*, Fig. 2; and Fig. 4 is a perspective view of the halves of the clamping and adjusting device detached and separated.

Without thereby limiting my invention to such use, but, on the contrary, expressly claiming that the main features of the invention are applicable to holding umbrellas when arranged upon other vehicles than baby-carriages, I will now proceed to describe my said invention as adapted for use on a baby-carriage. I may here say, however, by way of explanation, that the main difference in the device, when used upon other than baby-carriages, will reside in the construction of the frame, hereinafter described, especially with reference to its mode of attachment to the vehicle or other thing to which it is to be applied. In the device shown the frame *a* is provided with a number of feet, *b*, (three being here shown,) whereby it may be attached by screws or otherwise to the back of a baby-carriage. This frame is also provided with a cross-bar, *c*, which is constructed with a cup or socket, *d*, of the shape of a sec-

tion of a hollow sphere. The head *e* of this frame is hollowed out inside substantially concentric with the spherical socket *d*. Said head is also provided with the screw-threaded boss *f*, in which is applied the thumb-screw *g*, extended into the frame between the head and the socket *d*. The head *e* has its lower portion, *h*, extended toward the cross-bar *c* sufficiently far to prevent the escape in that direction from the frame of the clamping device, which I will now proceed to describe; but the opposite side of the frame is wide enough to permit the insertion and removal of the clamping device.

The clamping device *i* consists of a sphere divided into halves *j k*, with a central opening, *l*, to receive the stick or rod which supports the umbrella, this opening being of the size and shape of the stick or rod. The half *j* of the clamping device is provided with lugs *m*, projecting from its sides, which engage recesses or notches *n* in the half *k*, so that when the halves of the clamping device are placed together these lugs *m* will engage the notches or recesses *n* and prevent the separation of the halves of the clamping device, while at the same time allowing movement of the halves toward and from one another, so as to compensate for any variation in thickness or diameter of the umbrella stick or rod. The half *k* is provided in the plane of the rod-opening *l* with projecting parallel ribs or flanges *o*, which form a guideway, *p*, to receive the point of the set-screw *g*, the said ribs or flanges preventing the clamping device from escaping laterally from said screw, while at the same time they permit the said clamping device to move axially in any and every direction.

Now, it will be seen that when an umbrella stick or rod is inserted in the opening *l* the halves of the clamping device yield to permit its being placed therein, and thereafter the screw *g* is turned up until it bears hard against the said clamping device, to thereby insure the retention of the rod in the desired position within said clamping device. When it is desired to change the vertical adjustment of said umbrella stick or rod, so as to take the umbrella closer to or farther from the occupant of the carriage, the screw is loosened, and the hold of the halves of the clamping device upon

the rod being thereby slacked, said rod may be freely removed to a desired position. Again, when it is desired to change the adjustment of the umbrella laterally or backward and forward with relation to the occupant of the carriage, the screw is loosened and then the clamping device may be rotated axially in any direction whatever to gain such adjustment. The axes of the clamping device are between the point of said screw and the socket *d*, and it is obvious that these are limited only by all the possible adjustments that can be given to the umbrella with respect to the occupant of the carriage.

As a further safeguard against the escape of the clamping device, and also as a means of limiting the adjustment of said clamping device to only its useful purposes, the ribs or flanges *e* may be united at their ends by cross flanges or abutments *g*.

The various parts of my device may be most readily produced by casting.

The clamping device may be inserted in the frame by running out the screw *g* until its point is within the hub *f*.

It will be noticed that the socket in the cross-bar *c* forms the main bearing for the clamping device and receives the thrust of the screw *g* upon said clamping device.

What I claim is—

1. An umbrella-support comprising a frame having a cup or socket, a spherical clamping device provided with an opening to receive the stick or rod of the umbrella, and a set-screw to bind the said clamping device upon the cup or socket and at the same time bind the stick in the clamping device, substantially as described.

2. A spherical clamping device provided with an opening to receive the thing to be clamped and divided into halves movable toward and from one another, combined with a frame having a socket to receive the clamping device, and a set-screw to retain said clamping device therein, substantially as described.

3. A clamping device consisting of a sphere divided into halves provided with matching lugs and notches and an opening to receive the thing to be held, combined with a frame having a socket and a set-screw, substantially as described.

4. A clamping device consisting of a diametrically-divided sphere provided with matching lugs and notches and a central opening, and a guideway on one side of one of the halves, combined with a frame having a socket and a set-screw, the said set-screw engaging the said clamping device in its guideway, substantially as and for the purpose set forth.

5. In an umbrella-support, a frame provided with attaching feet and a socket and having its lower portion substantially closed against the escape of the clamping device, combined with a clamping device consisting of a diametrically-divided sphere having an opening to receive the thing to be clamped, and held in the socket by a set-screw, and adapted to be inserted in and removed from the frame from above only, substantially as set forth.

6. An umbrella-support consisting of a frame adapted to receive a spherical clamping device, and provided with a set-screw for engaging said clamping device, and a clamping device consisting of a diametrically-divided sphere provided with an opening between the meeting faces of the halves of said clamping device, the said clamping device being movable axially within the frame to permit the lateral and backward and forward movement of the umbrella, and also adapted to permit the vertical adjustment of the umbrella, substantially as described.

In testimony whereof I have hereunto set my hand this 27th day of December, A. D. 1886.

ASHER B. STEVENS.

Witnesses:

JNO. S. O'BRIEN,
W. W. BRICK.