(No Model.)

# H. EICHLING.

## CANOPY HOLDER FOR VEHICLES.

No. 299,630. Patented June 3, 1884.

Fig. 1.

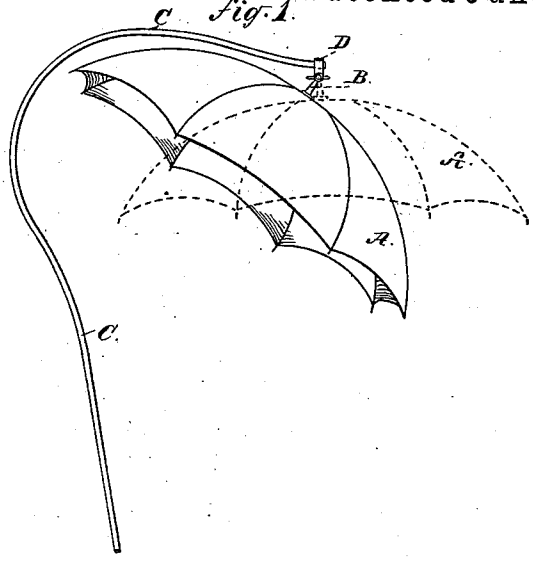



Fig. 2.

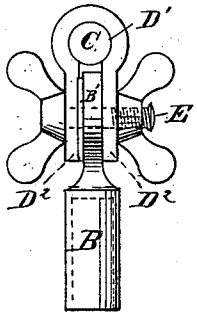



Fig. 3.

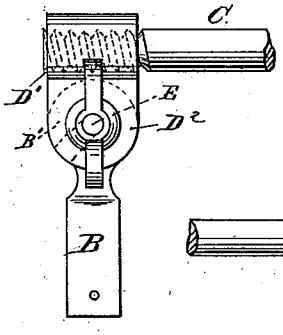



Fig. 5.

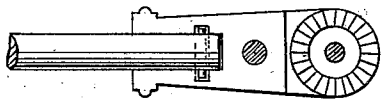


Fig. 4.

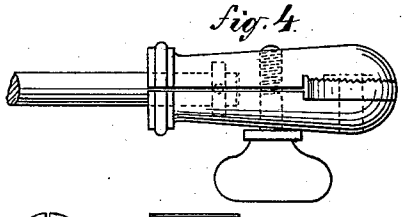


Fig. 6.

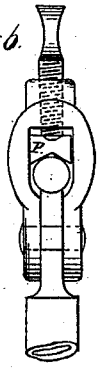



Fig. 7.

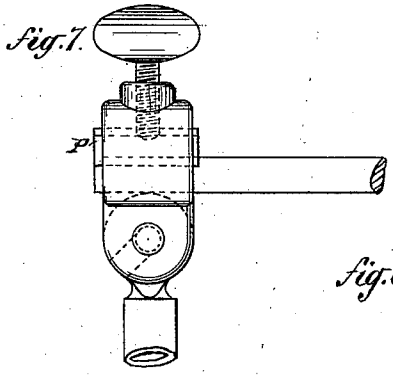



Fig. 8.

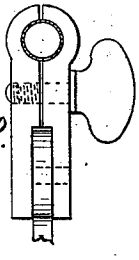
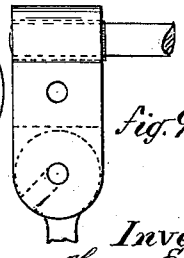


Fig. 9.



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C. Augustus Burgess.

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N. PETERS. Photo-Lithographer, Washington, D. C.

# UNITED STATES PATENT OFFICE.

HENRY EICHLING, OF NEW YORK, N. Y.

## CANOPY-HOLDER FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 299,630, dated June 3, 1884.

Application filed July 14, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY EICHLING, of the city, county, and State of New York, have invented certain new and useful Improvements in Shade-Device Attachments; and I declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings of the same.

My invention relates to attachments which are employed to fasten parasols, canopies, or other shade devices to the rods or bars designed to support them, and which also permit such shades to be adjusted and fixed in various positions relatively to their supports, particularly as adapted to be used on a child's carriage; and my improvements consist, first, of a novel and simplified form of clamp or clasp, which is provided with an operating-screw or other like device for operating it, and is adapted to simultaneously and rigidly grasp the supporting-rod and the ferrule or similar part of a parasol or canopy, and be adjustable upon such rod and ferrule; second, in constructing these parts so that the bar and ferrule may engage with the clamp in such manner as not to be separated therefrom when the clamp is loosened for purpose of adjusting the shade.

In the accompanying drawings, Figure 1 is a side view of my improved connecting device as arranged to secure the parasol of a child's carriage to its supporting-rod, another position of the parasol being represented by dotted lines. Figs. 2 and 3 are enlarged front and side views of the clamp and a portion of the supporting-rod. Figs. 4 and 5 are respectively a side view of a modified form of the clamp and a view of the same with one of the parts removed; and Figs. 6, 7 and 8, 9 are respectively side and front views of a second and a third modified form.

Referring to these views in detail, and particularly to the first three figures, the letter A indicates the parasol, canopy, or other shade device of a child's carriage; B, the ferrule on the outer end of the stick which carries the frame, and C the supporting-rod which usually rises from the body of the carriage, and from the upper end of which the shade is suspended.

D is a clasp or clamp—in this case of a U shape, and made from a single piece of elastic flat or strap metal. It is constructed so as to have a grasp, D′, adapted to receive the end of the supporting-rod C, and also to have wings $D^2$ $D^2$, adapted to grasp the ferrule B of the parasol or canopy A. It is also provided with an operating-screw, E, the thumb-piece of which bears upon one of the wings $D^2$, and the shank of which passes through the other wing of the clamp and into a thumb-nut, as shown; or its shank may engage with a thread in the wing. This screw constitutes the means by which the halves of the clamp are closed upon the rod C and ferrule B, the elasticity of the metal being sufficient to permit all requisite deflection of the wings when closing together or opening. To preserve the union of the parts when the clamp is loosened for the purpose of adjusting the shade, I provide the grasp with a screw-thread, which meshes with a corresponding screw-thread on the end of the supporting-rod, and I also fit the ferrule of the shade with a flat hook or eye, B′, which passes around a lug, $D^3$, on one or both of the wings of the clamp. By such means the parts are held together when the clamp is open, and any desired adjustment of the shade relatively to its support can be easily and quickly made without the parts becoming disconnected. Furthermore, the spirally-threaded grasp of the clamp—constituting, as it does, the most effective form of grasp—enables me to materially reduce the size of the clamp and make it cheaper and more shapely. The clamping action is furthermore augmented by serrating, grooving, or otherwise roughening the sides of the hook B′ and the corresponding inner faces of the wings of the clamp. Although this form of clamp is preferred, it is manifest that various modifications thereof can be made, and accordingly I show two such modified forms. In Figs. 4 and 5 and 8 and 9 the halves of the clamp are shown as separate pieces adapted to conjointly grasp the rod and shade to be united. They are provided with a single operating-screw, as in the former case, and are similarly constructed to maintain positive engagement with the parts they unite, when loosened for the purpose of altering the relative position of such parts.

The modified form of clamp shown in Figs. 6 and 7 is constructed to draw the united

parts together and effect the pinch or bite directly between them, thus causing each to assist in grasping the other. Here the operating-screw is placed to bear upon the rod, and the wings of the clamp are connected by a rivet, around which the hooked ferrule of the shade passes. Preferably a friction-block is placed between the supporting-rod and its ferrule-hook, and, if desired, it may be movably connected to either of the parts as a follower, P. It is to be understood that these connecting parts may be provided with suitable washers, and may be serrated, toothed, or in any like manner made to have more effective action.

It is plain that various different forms of shade devices may be used, and when a form is used differing in structure from that shown corresponding changes may become necessary in the ferrule or other device by which the shade is suspended; hence I do not limit myself to the exact construction of the ferrule. It is also plain that a cam or wedge may be arranged to close and open the halves of the clamp; but while I am aware of the applicability of all such devices I regard them as but modifications or equivalent forms of the screw I have shown and described, and which is the preferable operating device. It is also plain that the ferrule could be made ball-shaped, in which case the two halves or wings of the clamp will have to be made hemispherical to grasp the ball of the ferrule.

What is claimed as new is—

In combination with a shade device and support therefor, an adjustable clamp provided with a binding-screw, and adapted to simultaneously and rigidly grasp the said support and the ferrule or similar part of said shade device, for the purpose set forth.

HENRY EICHLING.

Witnesses:
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