No. 614,364. Patented Nov. 15, 1898.

A. S. BURNHAM.

FOLDING CANOPY FOR BICYCLES OR VEHICLES.

(Application filed Jan. 10, 1898.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

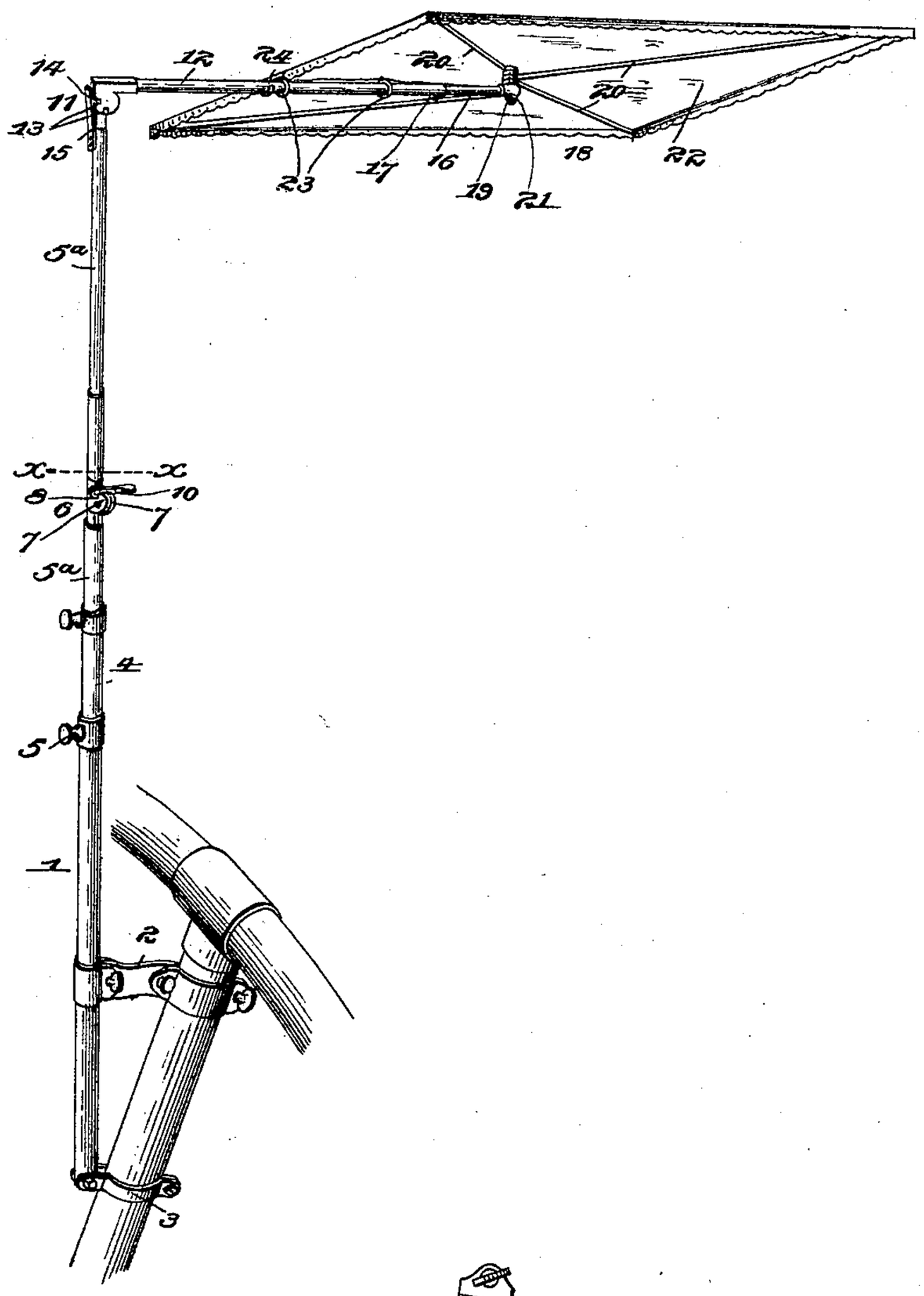
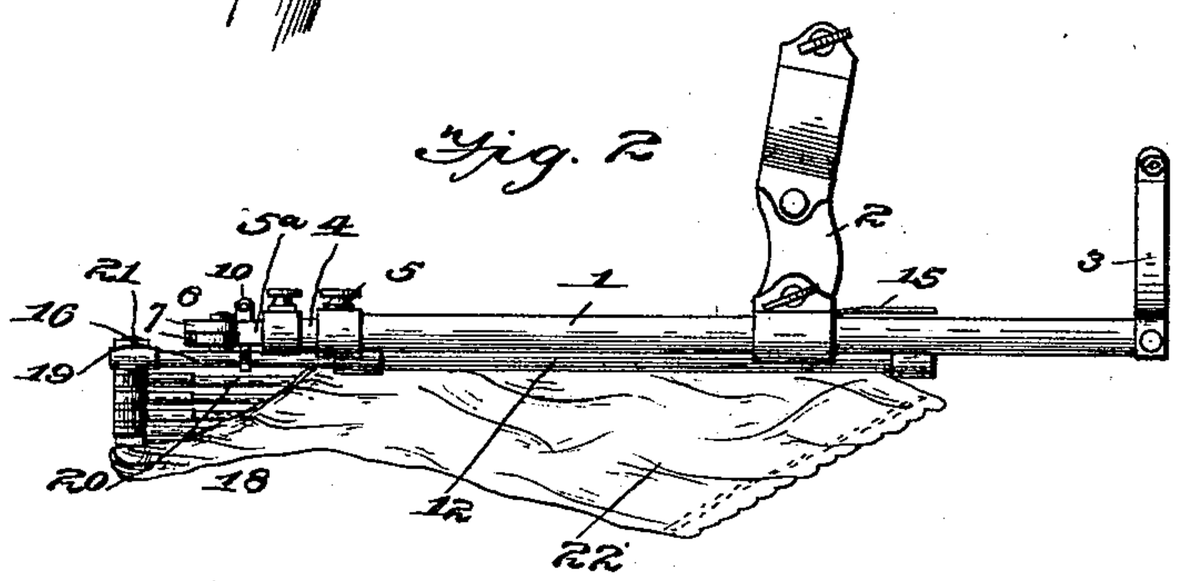


Fig. 2.



Witnesses
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Inventor
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(No Model.) 2 Sheets—Sheet 2.

Fig. 3.

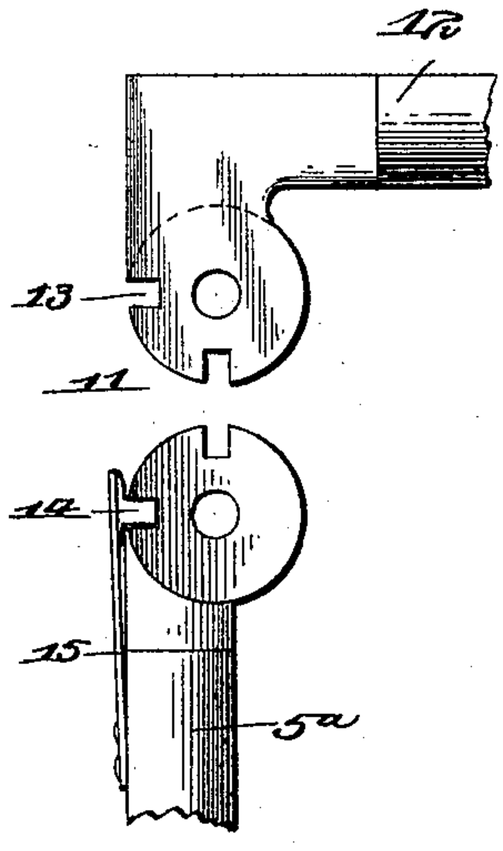


Fig. 4.

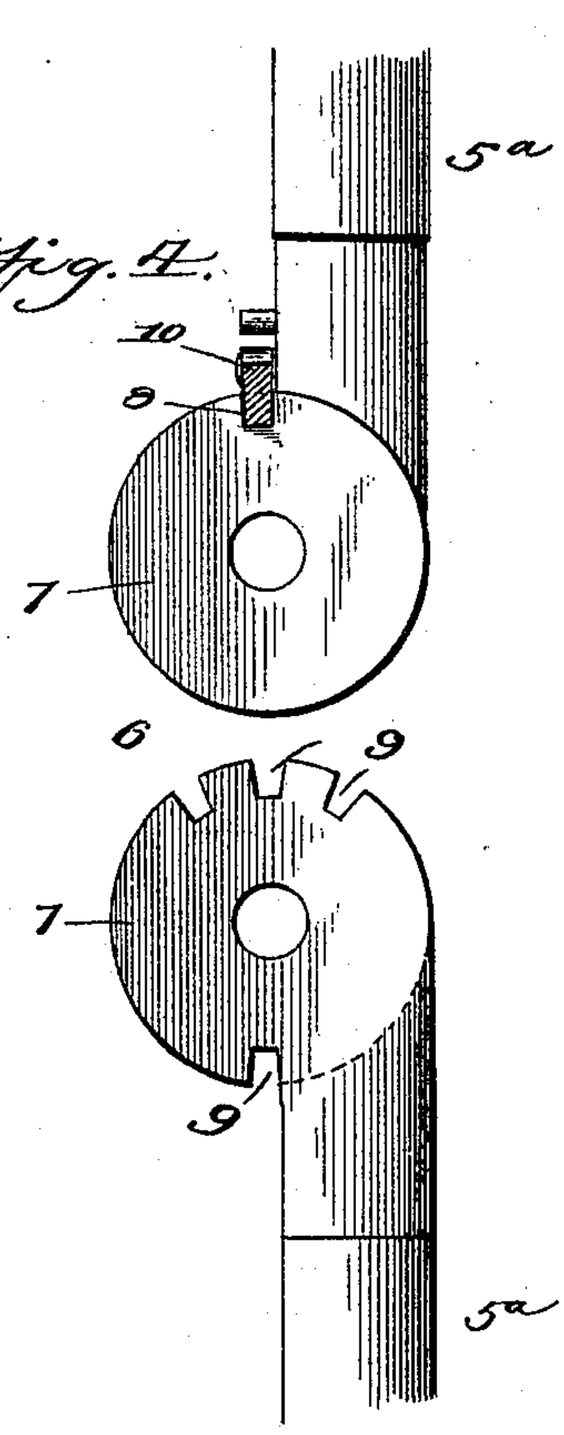
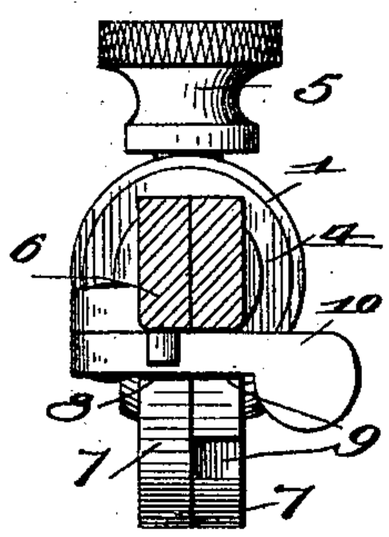


Fig. 5.



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UNITED STATES PATENT OFFICE.

ALFRED S. BURNHAM, OF WILDOMAR, CALIFORNIA.

FOLDING CANOPY FOR BICYCLES OR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 614,364, dated November 15, 1898.

Application filed January 10, 1898. Serial No. 666,211. (No model.)

To all whom it may concern:

Be it known that I, ALFRED S. BURNHAM, a citizen of the United States, residing at Wildomar, in the county of Riverside and State of California, have invented certain new and useful Improvements in Folding Canopies for Bicycles or Vehicles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a bicycle shade or canopy; and it consists, essentially, of an adjustable telescopic support having attaching devices thereon for connection with the frame of a bicycle and also an adjustable telescopic arm with folding ribs on a portion thereof, a covering of suitable fabric being attached to said ribs and adapted to be expanded by the latter.

The invention further consists of the details of construction and arrangement of the several parts, which will be fully hereinafter described and claimed.

The object of the invention is to provide a device of this character which may be adjusted vertically when open and arranged laterally to screen the rider at any angle and when folded may be held in compact form on the machine and be readily arranged for use, the parts being simple and effective in their construction and operation, strong and durable, easily and readily operated and applied, and comparatively inexpensive in the cost of manufacture.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a bicycle, showing the improved shade or canopy attached thereto and arranged in operative position. Fig. 2 is a detail view of the device, shown folded. Fig. 3 is a detail view of the top joint, shown disconnected. Fig. 4 is a similar view of the break-joint. Fig. 5 is a horizontal section on line $x\,x$, Fig. 1.

Referring to the drawings, wherein similar numerals of reference are employed to indicate corresponding parts in the several views, the numeral 1 designates the lower member of a support or upright, which is tubular and has attached thereto an upper clamp 2 and a lower clamp 3. The upper clamp 2 is stationary on the said lower member 1, and the lower clamp is pivotally connected, both of said clamps being adapted to be secured or applied to different parts of the frame of a bicycle at the front of the latter, and preferably on the steering-post and handle-bars, and hold the entire device relatively to the seat of the rider. Within the lower member 1 is telescopically mounted a second member 4 which is adapted to be held relatively to said lower member in its adjusted position by a set-screw 5. A third member 5^a is adjustably mounted in the second member 4 and has a break-joint 6 therein, which is provided by two contiguously-arranged disks 7 on opposite parts and pivotally connected, the one disk having a single notch 8 at the upper portion thereof and the other disk a series of notches 9, adapted to be engaged by a pivoted latch 10, carried adjacent to one of the disks and extending over the other. The said latch acts to sustain the disks in adjusted position relatively to each other and regulates the angle of the uppermost vertical or third member 5^a. On the upper end of the third member another joint is located, as at 11, being in part carried by a horizontal supporting-arm 12 and having notches 13 therein, which are engaged by a nose 14, projecting from a spring-arm 15. This latter adjustment is to regulate the position of the arm 12 to place the shade or canopy supported thereby at any angle desired. The said arm 12 is tubular, and therein is telescopically fitted an extension 16, which is held in adjustable position by a set-screw 17, carried at the outer end of said arm 12. Upon the rear end of the extension 16 a canopy-frame 18 is adjustably positioned and comprises a supporting-bolt 19, on which are fitted the inner apertured ends of ribs 20, being clamped in place by a thumb or analogous screw-head 21, engaging the upper end of said bolt. The said ribs have their inner ends alternately arranged and are four in number and at their outer ends are secured to the opposite corners of a fabric covering 22, forming a shade or canopy. The said ribs hold the fabric distended, and at the front the latter is slitted and has on one side rings 23, movable on the arm 12, and at the opposite side a hook 24, which is detachably secured to the arm 12.

The canopy or shade is adapted to be ad-

justed at any angle to screen the rider from the sun or from rain, if desired, and the upright, composed of the parts heretofore set forth, can also be regulated to elevate or lower the arm 12, and consequently the canopy or shade carried thereby, and when not in use the hook 24 is disconnected from the arm 12 and the ribs 20 folded closely adjacent to said arm. The arm 12 is then closed down parallel with the third member of the standard and the latter in turn, with the other parts, also moved down parallel with the first or lower member 1. When the canopy or shade is not in use, however, it can be turned to one side or let down without adjusting the parts of the standard, and it will then be in convenient position for immediate use without rearrangement of all the parts, as in the first instance.

From the foregoing description it will be seen that the improved device is universal in its adjustment, and in view of the changes which can be readily made the several parts are reduced in number as much as possible and of a strong and durable nature. This makes the cost of manufacture very small, and consequently reduces the selling price. The covering over the ribs may be of any design and have applied thereto fanciful embellishments to make a pleasing appearance.

The proportion of the canopy or shade can be increased or decreased, as desired, and it is obviously apparent that many minor changes in the details of construction of the entire device might be made and substituted for those shown and described without in the least departing from the nature or spirit of the invention.

Having thus described the invention, what is claimed as new is—

1. In a bicycle canopy, or shade, the combination of a support, an arm movably mounted thereon, pivoted ribs carried by said arm, a covering attached to the ribs and having a slit extending from the pivotal center outward to the edge of the canopy, rings along one side of the slit embracing said arm, and a hook on the opposite side of the slit for engaging the arm for holding the covering distended, substantially as described.

2. In a bicycle canopy or shade, the combination of a support, an arm movable thereon, pivoted ribs adjustably carried by said arm and all pivoted on a common center, a covering attached to the ribs and having a slit extending from the pivotal center outward to the edge of the canopy, rings along one side of the slit embracing the arm, and a hook on the opposite side of the slit for engaging the arm and holding the covering distended, substantially as described.

3. In a bicycle canopy or shade, the combination with a longitudinally-extensible supporting-arm, of a longitudinally-extensible arm having a jointed connection therewith and extending normally at a right angle, a canopy adjustably secured to the end of said arm, and a break-joint intermediate the ends of the main support, consisting of disks connected to their respective members and having peripheral notches, and a spring-pressed catch for engaging said notches, substantially as described.

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

ALFRED S. BURNHAM.

Witnesses:
ED H. CURL,
J. H. HENDERSON.