

(No Model.)

2 Sheets—Sheet 1.

H. HOHENSTEIN & B. J. APPLE.
BICYCLE CANOPY.

No. 490,229.

Patented Jan. 17, 1893.

Fig. 1 -

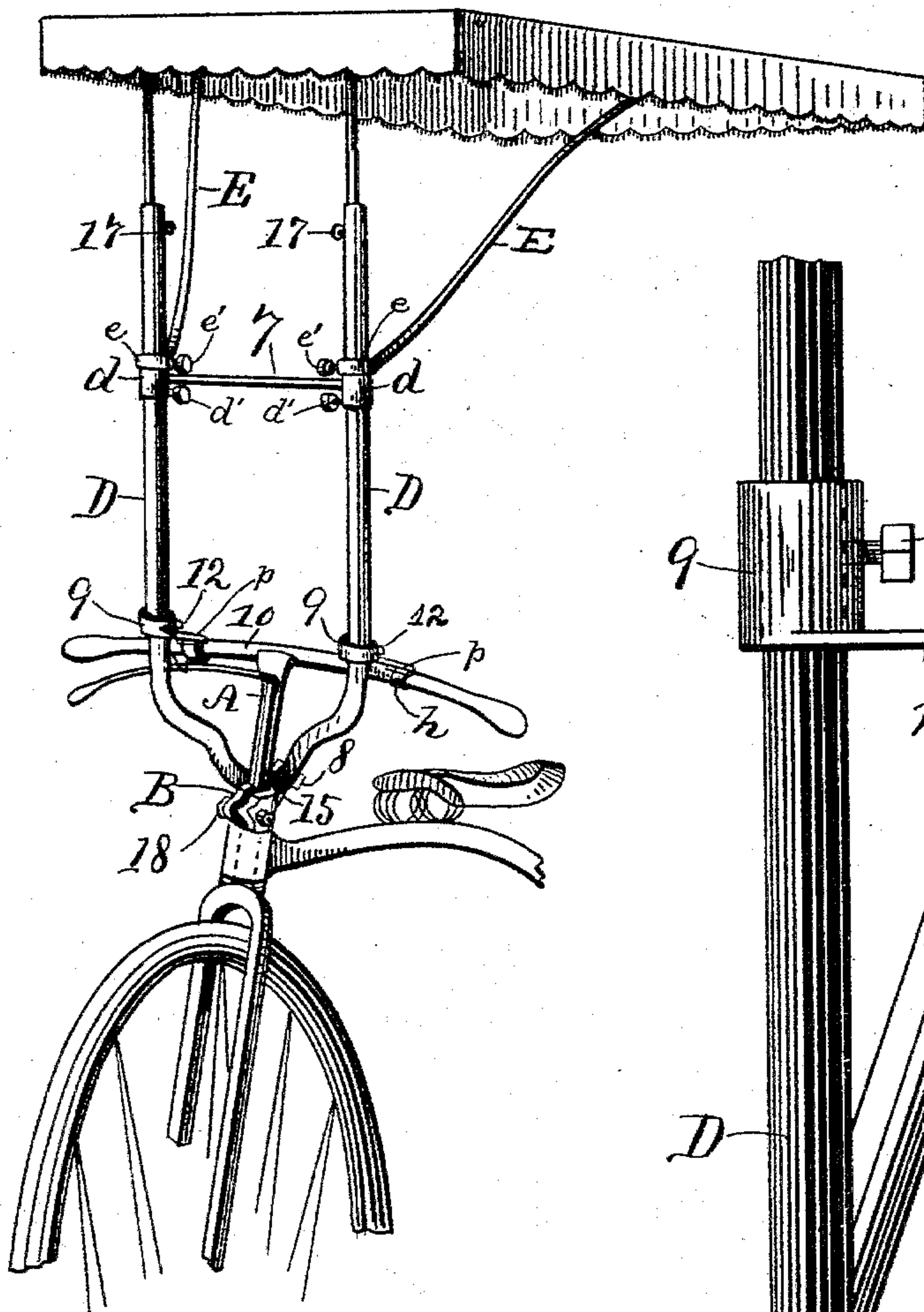
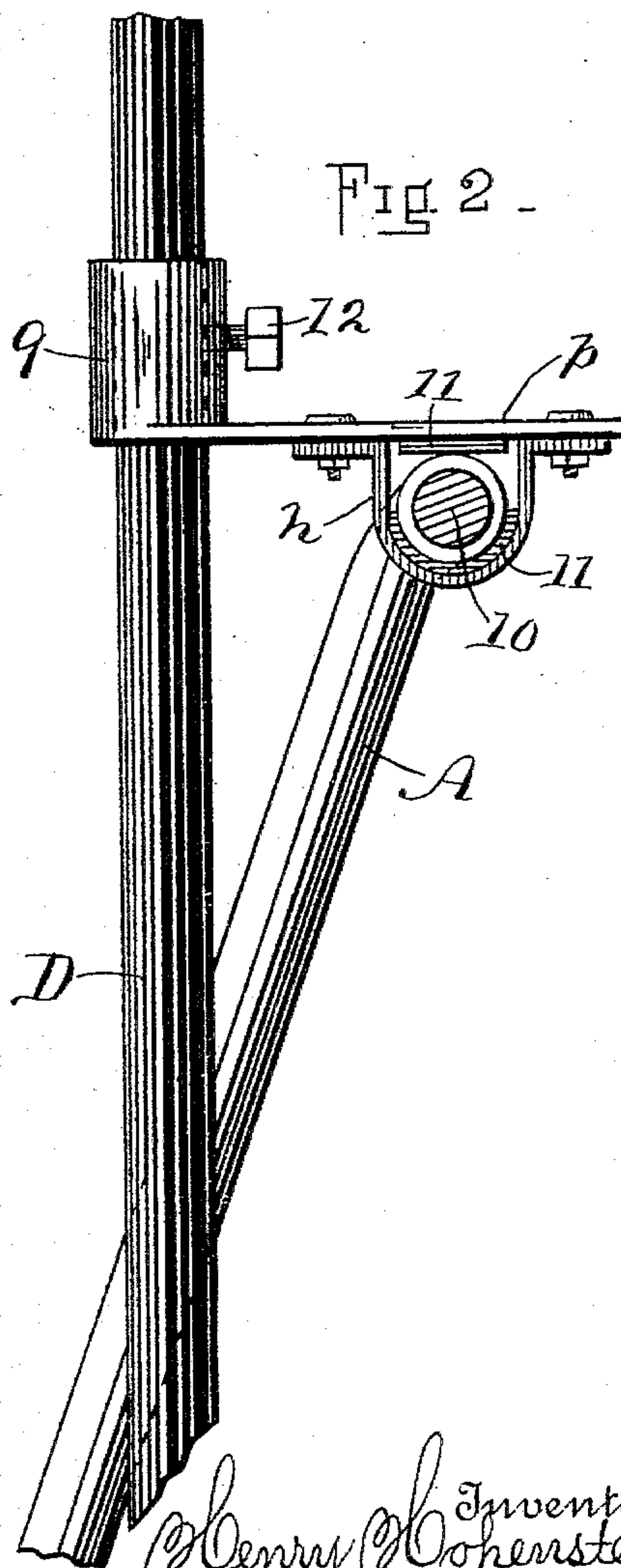


Fig. 2 -



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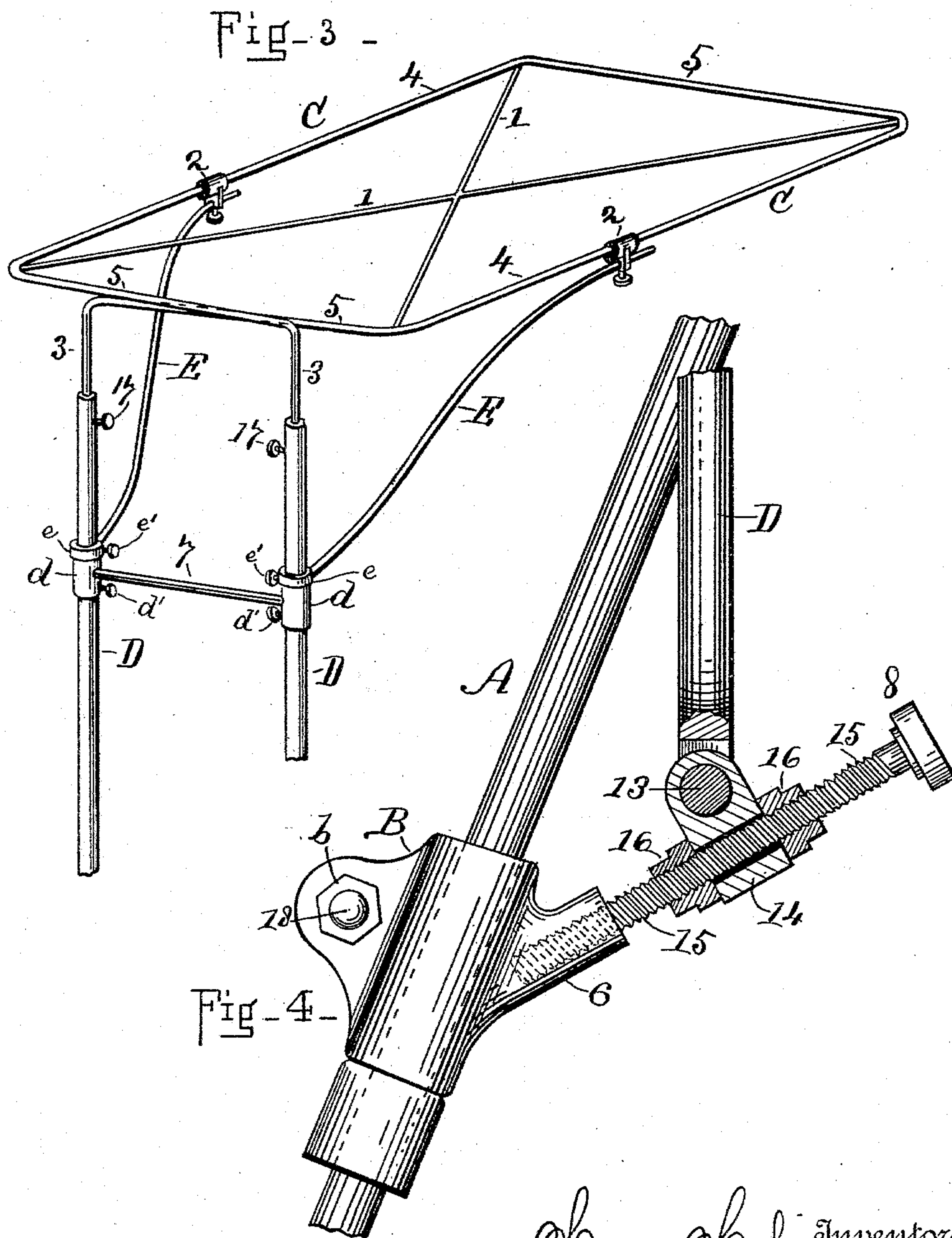
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UNITED STATES PATENT OFFICE.

HENRY HOHENSTEIN AND BENJAMIN J. APPLE, OF SAVANNAH, GEORGIA.

BICYCLE-CANOPY.

SPECIFICATION forming part of Letters Patent No. 490,229, dated January 17, 1893.

Application filed September 13, 1892. Serial No. 445,747. (No model.)

To all whom it may concern:

Be it known that we, HENRY HOHENSTEIN and BENJAMIN J. APPLE, citizens of the United States, residing at Savannah, in the county of Chatham and State of Georgia, have invented certain new and useful Improvements in Attachments for Bicycles; and we 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.

Our invention relates to bicycles, and consists in a canopy provided with means for attachment to such vehicles, of any conformation.

Our invention further consists in novel forms of clamping devices and connections thereof that support the canopy frame, said frame being adapted to be extended vertically and securely held at required elevations.

Our invention further consists in combinations of certain features of the device, all as hereinafter fully described, illustrated in the drawings and specifically pointed out in the claims.

Referring to the accompanying drawings wherein like letters of reference point out similar parts on each figure;—

Figure 1. is a perspective view of the upper portion of a bicycle, having our improved canopy attached thereto. Fig. 2. is an enlarged detail view of portions of the device the handle bar and connections being shown in section, also showing method of connecting the extensible uprights of the canopy frame through clamps to the handle rod. Fig. 3. is a perspective view of the canopy frame and the upper portion of the frame holder. Fig. 4. is an enlarged detail view of the lower portion of the bicycle neck, showing the surrounding neck clamp and the adjustable support that carries the uprights of the canopy frame.

In the drawings, A, is the neck of a bicycle, of the ordinary form, which in carrying out our invention is provided at its lower end with a main clamp, B. Said clamp is adjustable to a neck of any size by operation of the bolt, 18, and nut, b, as it will be readily understood that the bore of the clamp can be thereby regulated in diameter. In practice said clamp must tightly clasp the neck so as

to turn therewith. In Fig. 4, the outer circumference of the neck and bore of clamp are illustrated of diverse diameters, but said clamp can be firmly tightened over the neck by means of bolt, 18, as plainly shown in Fig. 1. Rearward from clamp, B there extends an upwardly inclined branch, 6, internally screw threaded for a purpose presently pointed out.

C, is the canopy frame. It is shown as quadrangular but may be of any exterior configuration that taste and convenience may dictate.

1,—1,—represent brace rods, extending diagonally from the corners of the frame, C, and crossing each other centrally thereof.

3, 3, are perpendicular legs of the frame which after extending upwardly a given height are bent laterally in opposite directions and turned to form the sides, 4, and ends, 5, of the frame, C. The lower ends of the legs, 3, are inserted respectively within tubular supports, D, of the frame and said legs can be lowered or extended telescopically within said supports and held securely at required elevations by thumb-screws, 17. The supports, D, are held apart by transverse brace, 7, the opposite ends of which, for strengthening the frame, are fastened to a projecting collar, d. Said collars are made adjustable at any required point of the supports, D, by means of thumb-screws, d'. Above said collars, d, surrounding each support is a ring, e, movable upon said supports and maintained elevated at any point thereof by thumb-screw, e'. Extending from rings, e, at both sides of the device are upwardly inclined braces, E, which support the canopy frame as plainly shown in Figs. 1, and, 3, an adjustable clamp, 2, at the terminal of each brace, holding said brace to side, 4, of the canopy frame.

15, is an outwardly screw-threaded rod having disk head 8, which may be milled or of outward polygonal conformation for convenience of operation, the opposite end of said rod is in practice inserted within branch, 6, of clamp, B, and intermeshes with the female thread thereof. Before this connection is made, said rod is passed through smooth bore of the adjustable base 14, which carries the downwardly bent ends of supports, D, said base being maintained in position on the

threaded rod by lock nuts, 16. The branch, 6, of the clamps, B, extends forwardly as plainly shown in the drawings, whereby the tubes, D, are vertically supported a given distance outside of the handle rod, thereby allowing any form of brake to be freely operated without contact with any of the described connections.

In describing our invention we employ the word, "bicycle" in order to plainly illustrate operation of the device, but we do not desire to limit its application solely to such vehicles, it being equally adaptable for connection to tricycles, unicycles or any form of an analogous traction character.

10, is the handle bar of usual form, it is connected to the supports, D, by clamp, 9, which at one end composes a simple collar surrounding the supports and held thereon by set screws, 12; extending outwardly from each of said collars is a plate, *p*, under which is suspended a hanger, *h*, through which the handle bar passes, an upper and lower packing, 11, made of rubber or any suitable elastic material being inserted inside the hanger to prevent friction.

From the foregoing description, in connection with the drawings, the nature and object and practice of our invention will be readily understood by all familiar with analogous devices.

Its advantages and operation may be thus briefly stated;—A canopy such as illustrated and described, made with connections according to our invention, may be attached to any style of bicycle, or like vehicle, the main frame by moving the legs, 3 within supports D, to a desired height can be thereat held firmly by means of setscrews, 17, whereby the canopy frame, C, will be maintained at any desired elevation, the tubular clamps, 2, on side 4, of the frame, it will be readily understood, will be guided along said rods as the legs are moved telescopically, as set forth, and follow their movements, whereby the brace, E, will be adjusted as the legs, 3, are moved within the tubular supports, D, and at the same time the opposite ends of said braces will be adjusted on said tubular supports by operation of rings, *e*, and thumbscrews, *e'*. The handle bar which passes through hangers *h*, pendent from plates *p*, the latter extending from and integral with, clamp 9, surrounding tubular supports D, and connecting said supports to the handles but as before set forth, a

slight distance therefrom, can be freely operated in the usual manner and will turn the supports D, and all connections thereto, and there will be no risk of the canopy being moved out of alignment with the track that is being traversed by the vehicle. At the same time there will be no danger of friction or sudden jolt during the operation as the elastic cushion packing 11, will overcome sudden tension or strain.

Having thus fully described our invention and the manner of its operation, what we claim and desire to secure by Letters Patent of the United States of America is;—

1. A canopy for bicycles or like vehicles, the frame of which has downwardly extending legs, inserted within opposite tubular supports, D, telescopically movable therein, and held in position by thumb screws, *d*, in combination with braces, E, extending from movable rings, *e*, surrounding said supports, their opposite ends adjustable upon sides, 4, of canopy frame, substantially as described.

2. In a canopy for bicycles and like vehicles, supporting tubes, D, the lower ends of which are convergently bent to a common central point and pivotally supported thereat, said tubes each having a surrounding adjustable ring clamp, 9, provided with integral extending plate, *p*, carrying orificed hanger, *h*, through which the handle bar is inserted, said hangers supplied with interior elastic packing, all in combination substantially as described.

3. In a canopy for bicycles and like vehicles, the adjustable clamp, B, said clamp having outwardly extending hollow threaded branch, 6, screw rod, 15, carrying apertured base, 14, adjustable thereon at any point of its length by nuts, 16, said base, having inserted within bore of its upper end, converging bent rods, from the upper ends of which extend vertical tubular supports, D, each connected to the handle rod forwardly thereof, by plates, *p*, extending from clamps, 9, substantially as described.

In testimony that we claim the invention above set forth we affix our signatures in presence of two witnesses.

HENRY HOHENSTEIN.
BEN. J. APPLE.

Witnesses:

J. WEICHELBAUM,
J. H. MORGAN.