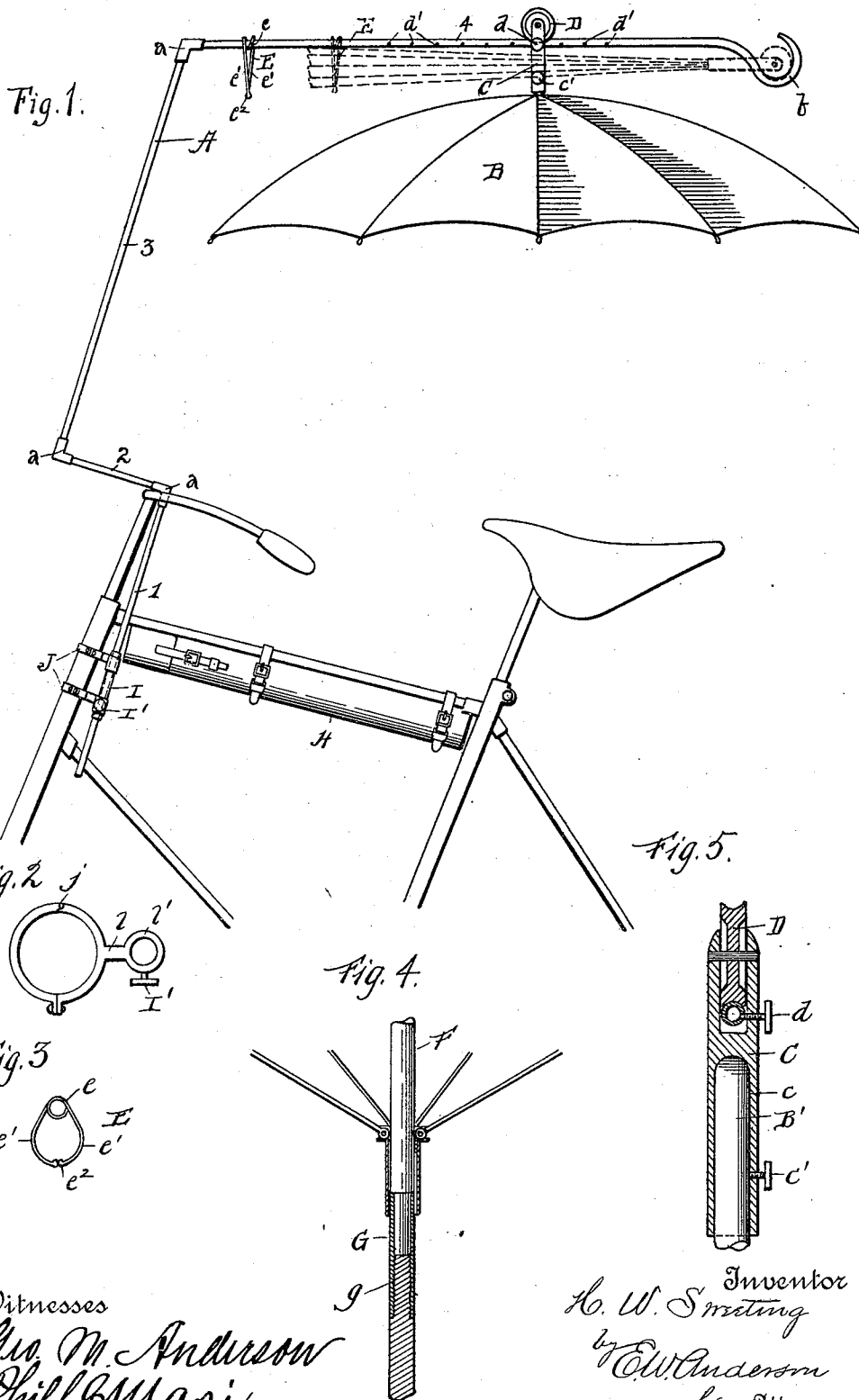


(No Model.)

H. W. SWEETING.
BICYCLE UMBRELLA.

No. 544,632.

Patented Aug. 13, 1895.



UNITED STATES PATENT OFFICE.

HARRY W. SWEETING, OF AUBURN, NEW YORK, ASSIGNOR OF ONE-HALF
TO HARRY A. KERSLAKE, OF SAME PLACE.

BICYCLE-UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 544,632, dated August 13, 1895.

Application filed November 16, 1894. Serial No. 529,021. (No model.)

To all whom it may concern:

Be it known that I, HARRY W. SWEETING, a citizen of the United States, and a resident of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Bicycle-Umbrellas; and I do 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, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side elevation of the invention applied. Fig. 2 is a plan view of one of the clips J. Fig. 3 is a detail of clasp-loop. Fig. 4 is a sectional view showing ferrule G, which adapts the umbrella for ordinary use. Fig. 5 is a central vertical section through casting C and track, showing tip of umbrella.

One object of this invention is to provide an umbrella attachment for bicycles simple in its construction, and which will afford the rider effectual protection from sun or storm without in any manner interfering with his movements or the control of the machine.

A further object of this invention is to provide an attachment which can be easily and quickly applied to any of the various forms of bicycles, and which may be as readily removed therefrom when not desired for use, the umbrella when so removed being, by a simple combination of certain of the parts, available for use as an ordinary umbrella.

With these objects in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter A designates the frame of the attachment, which usually consists of a light bar or rod of steel of angular form. This bar or rod is preferably made of four sections 1 2 3 4 to secure compactness when not in use and packed for carriage on the machine. The lower section 1, which is attached to the machine in the manner presently described, is when in use in substantial vertical relation

to the machine, as is the upper section 3, the section 2, which connects 1 and 3, being substantially horizontal in a forward direction, in order to carry the section 3 sufficiently ahead to be out of the way of the rider. The section 4 is coupled to the upper portion of the section 3 and extends back some distance over the machine. Said sections are preferably united by elbow-couplings *a*, each of which is permanently attached to one of the sections which it unites in order that when the frame is disjointed the couplings may not work loose and become lost. The upper coupling, which unites the sections 3 and 4, is permanently attached to the section 3 in order that the section 4, when removed, may be free of the incumbrance thereof, for the purpose presently described. All of the sections, with the exception of No. 4, are preferably solid, the section 4 being hollow save at its free end portion, which forms a depressed crook *b*.

B designates the umbrella proper, which is arranged to open and close in the manner of an ordinary umbrella, and whose top ferrule or stick-extension *B'* is designed to be received in a socket *c* of a casting C, being removably held therein by a set-screw *c'*. Journalled in the bifurcated upper portion of said casting is a peripherally-grooved wheel D, which runs upon the section 4 of the frame, being secured at the desired point thereon by means of a set-screw *d*, which is designed to engage any one of a series of holes or depressions *d'* in said section. In this manner the umbrella is suspended at the desired point over the rider.

When the rider wishes to fold the umbrella out of the way, the screw *d* is loosened and the wheel D run along the section 4 into the depressed crook *b*, which permits said wheel to drop below the section and to be folded and swung back underneath said section in the manner indicated in dotted lines, Fig. 1, where it is secured by suitable means. The device which I prefer to employ for this purpose consists of a clasp-loop E, formed from a piece of wire bent at its central portion to form a coil *e*, which engages the section 4 and from which extend the two spring-arms *e'*, which constitute the clasp, said arms terminating each in

a knob or ball e^3 , which prevents the ends of the wire from catching the umbrella.

The umbrella is provided with a short stick-section F, which normally does not project below the lower edge of the covering. Said stick is provided at its lower end portion with a ferrule G, having an internally-threaded socket g . When the attachment is removed from the machine, the section No. 4 may be unscrewed from the coupling a and screwed into this ferrule, being thus made to constitute a handle for the umbrella, which may then be used in the manner of an ordinary umbrella, the ferrule B' being removed from the casting C. The remaining parts of the attachment may be placed in a suitable holder H and carried on the frame of the machine, as indicated in Fig. 1.

The attachment can be applied to the neck of any machine, as illustrated, by means of a suitable fastening device. That device for the purpose which I prefer to employ will now be described. A short tube I, through which passes the lower portion of section No. 1 of the frame, is attached to the neck P of the machine by means of two clips J. Said clips comprise each a ring formed into two sections connected at one end by a pin-hinge j and at the other by a screw which engages threaded bearings in corresponding lugs of the sections. By means of this screw the clips may be adjusted to necks of varying sizes. Said clips also have arms l and sockets l' , which secure them to the tube I. The section 1 is held in the tube I by a set-screw I'.

I do not wish to limit myself to the exact construction and combination of parts herein shown and described, as it is obvious that certain changes may be made without departing from the spirit and scope of my invention. The frame, for instance, may be composed of more or less sections and of different form.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. In an umbrella attachment for bicycles, the combination with a frame having a section arranged to extend back over the seat of the machine to which the attachment is applied, and terminating in a depressed crook, of a casting having a grooved wheel arranged to run on said section and to be received in said crook, an umbrella detachably supported by said casting, and adapted to fold back underneath said arm, means for securing the umbrella in its folded position, and a socket or ferrule carried by said umbrella, and designed to receive said section as a handle when the section is detached from the other parts of the attachment substantially as specified.

2. In an umbrella attachment for bicycles, the combination with the frame having the detachable overhanging section 4, terminating in a crook b , of the casting C having the socket c , and the grooved wheel D, an umbrella having its tip or ferrule arranged to be detachably secured in said socket, and a clasp carried by said section for securing the umbrella when folded, substantially as specified.

3. In an umbrella attachment for bicycles, the combination with the frame having the overhanging section 4, terminating in a depressed crook b , of the casting C having the umbrella holding socket c , and the grooved wheel D, which is arranged to run on said section 4, and means for securing said casting at the desired point on said section, substantially as specified.

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

HARRY W. SWEETING.

Witnesses:

HARRY ANDREW KERSLAKE,
ROBERT L. WAME, Jr.