

F. HAITZ.
UMBRELLA SUPPORT.

No. 347,343.

Patented Aug. 17, 1886.

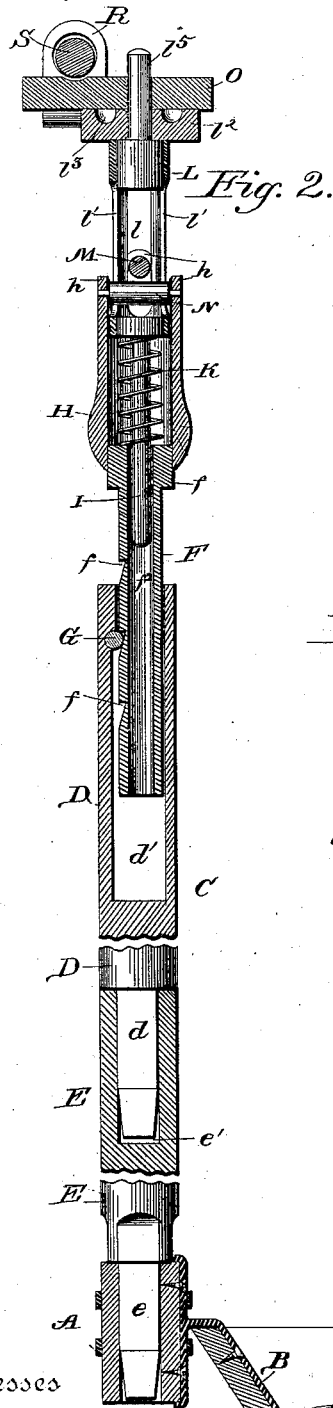


Fig. 1.

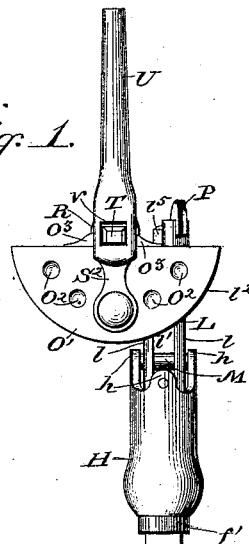
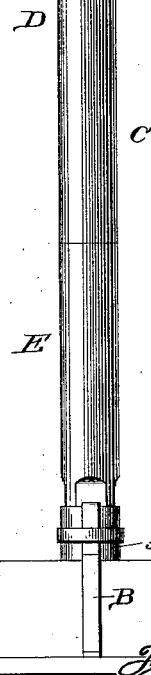
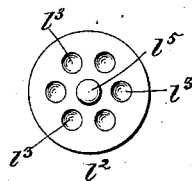


Fig. 6.



Witnesses

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By his Attorneys

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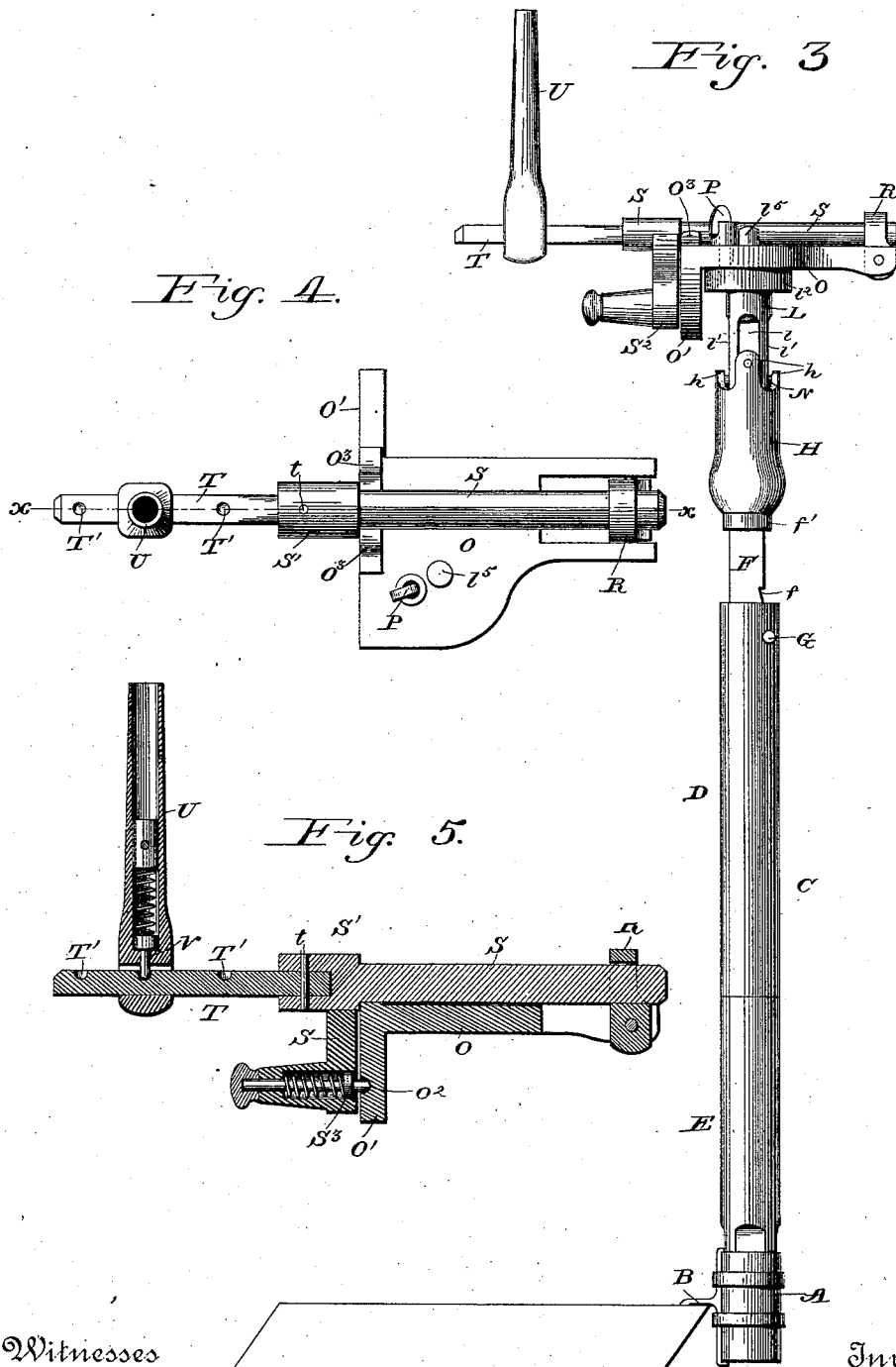
Inventor,

Fredrick Hartz.

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Witnesses

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UNITED STATES PATENT OFFICE.

FREDRICK HAITZ, OF TOWANDA, ILLINOIS.

UMBRELLA-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 347,343, dated August 17, 1886.

Application filed June 26, 1886. Serial No. 206,351. (No model.)

To all whom it may concern:

Be it known that I, FREDRICK HAITZ, a citizen of the United States, residing at Towanda, in the county of McLean and State of Illinois, have invented a new and useful Improvement in Umbrella-Supports, of which the following is a specification.

My invention relates to an improvement in umbrella-supports; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

The object of my invention is to provide an umbrella-support that is adapted to attach an umbrella to a wagon or other vehicle or to an agricultural machine—such as a mowing-machine, a grain-binder, or corn-planter, &c.—said support being provided with means by which the umbrella may be adjusted vertically or horizontally or inclined to any desired angle.

In the drawings, Figure 1 is an elevation of an umbrella-support embodying my invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is an elevation at right angles to Fig. 1. Fig. 4 is a top plan view. Fig. 5 is a detail sectional view on the line *xx* of Fig. 4. Fig. 6 is a detail view.

This invention is an improvement on Letters Patent of the United States No. 314,290, granted to me March 24, 1885, and No. 326,214, granted to me September 15, 1885.

A represents the socket, which is secured to the seat of the vehicle or machine by means of an arm, B.

C represents the standard or rod, which is made of two sections, D and E. The lower section, E, is provided at its lower end with a reduced shank, *e*, that fits in the socket A, and the upper end of the said section E has a socket, *e'*, to receive a similar shank, *d*, on the lower end of the section D. The upper end of the section D has a socket, *d'*, of considerable depth.

F represents a rod, which fits in the socket *d'*, and is provided on one side with a vertical series of notches, *f*. A pin, G, passes through an opening made in the upper end of the section D, and is adapted to engage either of the notches *f*, and thereby support the rod F in the section D at any desired vertical adjustment. The upper end of the rod F is enlarged and

provided with a head, *f'*, and in the upper end of the rod F is made a vertical socket, *f''*.

H represents a vertical hollow cylindrical sleeve, which is fitted on the head *f'*, and is provided at its upper end with ears *h*.

I represents a piston-rod, which fits in the socket *f''* of the rod F, and has on its upper end an enlarged head or piston that works in the sleeve H. A coiled extensile spring, K, is placed around the piston-rod, the lower end of the said spring bearing against the upper end of the rod F, and the upper end of the said spring bearing against the lower side of the piston.

L represents a vertical standard, the lower end of which is provided with vertical slots *l* and *l'*, which are arranged at right angles to and intercept each other. The lower end of this standard fits in the sleeve H, and is secured therein by a horizontal roller, M, which is journaled in two of the ears *h* and extends through the slot *l*, and a roller, N, which is journaled between the remaining pair of ears *h*, at right angles to the roller M and below the same, and passes through the slot *l'*.

From the foregoing description it will be understood that the standard L is free to move vertically in the sleeve H, and that the said standard is supported upon the spring K. The upper end of the standard has a horizontal circular head, *l''*, which is provided with a series of vertical recesses, *l'''*, near its outer edge. From the upper side of the head *l''*, at the center thereof, projects a vertical stud, *l''''*.

O represents a horizontal platform, which is journaled on the stud *l''''* and is free to turn thereon. This platform is provided with a vertically-movable stop-pin, P, which is adapted to engage either of the openings *l'''*, and thereby secure the platform on the head *l''* at any desired point. From one side of the platform depends a vertical segmental plate, O', near the outer edge of which is made a series of horizontal recesses, O''. Ears O³ project upwardly from the front side of the platform O, at the center thereof, and in the rear end of the said platform is hinged a link, R.

S represents a horizontal arm or shaft having one end journaled in the link R and extending across the platform O, and resting thereon and bearing between the ears O³.

The front end of this arm is provided with an enlarged head, S', the outer end of which is socketed, and from the lower side of the said head depends a sweep-arm, S'', which bears
 5 against the face of the segment-plate O', and is provided with a spring-actuated pin or bolt, S'', that is adapted to engage either of the openings O'', so as to secure the arm or shaft S on the platform at any desired angle.

10 T represents a horizontal rod, the inner end of which is secured in the socketed head S' by means of a transverse pin, t. That portion of the rod T which extends outwardly from the head S' is square, and on the upper side of
 15 the same is made a series of notches, T'. On the outer end of the rod T is secured a vertical handle, U, of an umbrella. The said handle is provided at its lower end with an opening, which fits over the rod T, and has a spring-
 20 actuated bolt, V, which engages with one of the notches T', and thus secures the umbrella to the rod T and permits the umbrella to be adjusted longitudinally on the said rod. This
 25 umbrella should preferably be constructed as described in my application for Letters Patent of the United States filed herewith, but may be of the ordinary construction.

The operation of my invention will be very readily understood from the foregoing description in connection with the accompanying
 30 drawings.

Having thus described my invention, I claim—

35 1. The combination, in an umbrella-support, of the standard C, the rod F, attached thereto, and having the head f', provided with the vertical socket f'', the sleeve H, fitted in the head f', the spring bearing under the said sleeve,

the platform supported on the upper end of the sleeve, and having means for turning the
 40 same and securing the platform at any desired point, and the horizontal arm hinged to the platform and adapted to partly rotate thereon, the said arm having the rod T to secure the umbrella-handle, substantially as de-
 45 scribed.

2. The combination, with the standard C, of the rod F, attached thereto and vertically adjustable, the said rod having the socketed head
 50 f', provided at its upper end with the transverse rollers M and N, arranged at right angles to each other, the sleeve H, fitting in the socketed head and having the transverse vertical
 55 slots l and l', in which the rollers work, the said sleeve carrying the platform provided with the horizontal arm, and the spring located in the lower end of the socketed head f' and bearing under the sleeve H, substantially as described.

3. The combination, in an umbrella-support, 60 of the horizontal arm S, having the socketed head S', the horizontal rod T, secured in the said socketed head, and having the recesses T' in its upper side, and the umbrella stick or
 65 handle fitted on the said rod, and having the bolt to engage either of the said recesses, and thereby lock the umbrella stick or handle to the rod T at any desired adjustment, substantially as described.

In testimony that I claim the foregoing as my
 70 own I have hereto affixed my signature in presence of two witnesses.

FREDRICK HAITZ.

Witnesses:

WILLIAM B. CARLOCK,
 STEPHEN CASEY.