

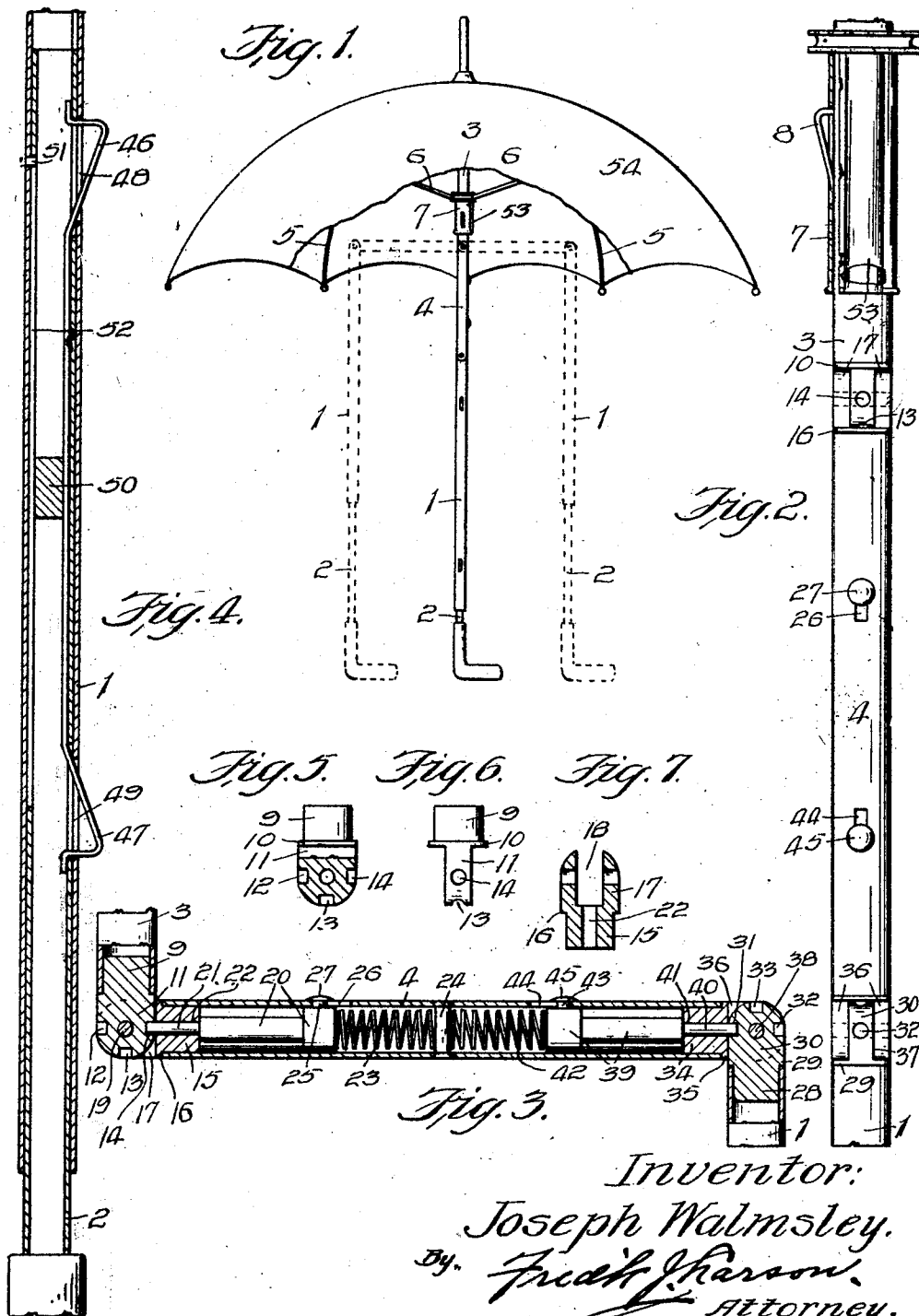
April 21, 1925.

J. WALMSLEY

1,534,820

UMBRELLA

Filed April 28, 1921



Inventor:
Joseph Walmsley.
By *Frank J. Harrison*
Attorney.

UNITED STATES PATENT OFFICE.

JOSEPH WALMSLEY, OF ST. LOUIS, MISSOURI.

UMBRELLA.

Application filed April 28, 1921. Serial No. 465,099.

To all whom it may concern:

Be it known that I, JOSEPH WALMSLEY, a citizen of the United States, residing in the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Umbrellas, of which the following is a specification.

My invention relates to improvements in umbrellas, and, more particularly to umbrella rods formed of pivoted sections so that the sections may be relatively positioned to cause the tip section carrying the umbrella cover to be centrally disposed over the person carrying the umbrella.

A further object of the invention is the provision of a simple joint connection between the several sections of the rod and locking means therefor.

A still further object of the invention is to provide the rod with a lower extensible section for lengthening the rod when used in an offset position.

With the above and other objects in view, the invention consists in the novel features of construction, arrangement and combination of parts hereinafter more fully described and finally pointed out in the claim hereto appended.

Referring to the accompanying drawings forming a part of this specification wherein like characters of reference denote similar parts throughout the several views:

Fig. 1, is a side elevation of an umbrella provided with a rod constructed in accordance with my invention and shown in dotted lines in two offset positions.

Fig. 2, is a detail in side elevation of the rod sections in longitudinal alignment.

Fig. 3, is a longitudinal sectional view showing the rod sections in one of the offset positions.

Fig. 4, is a detail in sectional elevation of the extensible end of the handle section in its closed position.

Fig. 5, is a detail of one of the joint members.

Fig. 6, is a detail showing the same joint member from the edge.

Fig. 7, is a detail of the bifurcated joint member.

In forming an umbrella in accordance with my invention, I employ a rod made up of four sections, namely, a handle section 1 provided with an extensible section 2, an intermediate section 4 and a tip, or upper section 3. The tip section 3 carries the usual

ribs 5 and braces 6, the latter being connected with a suitable runner 7 adapted to be sustained in an elevated position by a suitable spring catch 8.

The tip section 3 is provided at its lower end with a joint member 9 which is suitably fixed thereto. Joint member 9 is provided with a stop flange 10 and a narrow tongue 11 having a curved outer end provided with the three peripheral sockets 12, 13 and 14. The intermediate section 4 is provided at its upper end with a joint member 15 which is suitably fixed thereto. Joint member 15 is provided with a stop flange 16 and a head 17 having the slot 18. The tongue 11 is receivable in the slot 18 and loosely mounted upon the pin 19 carried by the head 17 of joint member 15. A slidable member 20 is mounted within the upper end of the intermediate section 4 and provided with a locking stem 21 of less diameter than member 20 to provide a stop or shoulder and which stem passes through an opening 22 of the joint member 15 and receivable at its end in one of the sockets 11 or 12 when section 4 is disposed at a right angle to the tip section 3 and receivable in socket 13 when in longitudinal alignment with the tip section 3. A coiled spring 23 is disposed between the pin 24 and the inner end of the slidable member 20 for normally holding the locking pin in one of the sockets of the tongue 11 of the joint member 9, as clearly shown in Fig. 3. The slidable member 20 is provided with a pin 25 which passes through a slotted opening 26 of the intermediate section 4 and provided with a suitable head 27, so the member 20 may be retracted by the finger of the operator when offsetting or straightening the umbrella rod.

The tubular handle section 1 is provided at its upper end with a joint member 28 similar to joint member 9 and which is suitably fixed to the handle section 1. Joint member 28 is provided with stop flange 29 and a narrow tongue 30 having a curved outer end provided with the three peripheral sockets 31, 32 and 33. The intermediate section 4 is provided at its lower end with a joint member 34 which is suitably fixed thereto. Joint member 34 is provided with a stop flange 35 and a head 36 having the slot 37. The tongue 30 is receivable in the slot 37 and loosely mounted upon the cross pin 38 carried by the head 36 of the joint member 34. A slidable member 39 is mount-

ed within the lower end of the intermediate section 4 and provided with a locking tongue 40 which passes through an opening 41 of the joint member 34 and receivable at its end in one of the sockets 31 or 32 when section 3 is disposed at a right angle to the handle section 1 and receivable in socket 33 when in longitudinal alignment with the handle section 1. A coil spring 42 is disposed within section 4 between the pin 24 and the inner end of the slidable member 39 for normally holding the locking pin 40 in one of the sockets of the tongue 30 of the joint member 28, as clearly shown in Fig. 3. The slidable member 39 is provided with a pin 43 which passes through a slotted opening 44 in the wall of the intermediate section 4 and is provided with a suitable head 45, so the member 39 may be retracted by the finger of the operator when offsetting or straightening the umbrella rod.

The extension handle 2 is provided with two catches 46 and 47 receivable in the slotted openings 48 and 49, respectively, when the extension handle is in its closed position, as shown in Fig. 4.

The spring catches 46 and 47 are held in position by means of the plug 50.

The tubular handle 1 is provided with an inwardly projecting pin 51 which is receivable in a slotted opening 52 of the extension handle 2. This pin 51 limits the movement of the extension handle 2 by coming in contact with the ends of the slot 52 and also prevents rotary movement thereof within handle 1. When the handle 2 is in its extended position, the catch 46 is receivable in the slotted opening 49.

The wall of runner 7 is provided with a longitudinal or channel groove 53 formed by pressing the wall outwardly so as to receive the heads of the pins 19 and 25 when raising or lowering the runner 7 to raise and lower the umbrella ribs. 54 represents the covering for the ribs.

From the foregoing description, it is evident that the structure and operation of the device is simple, and, that the locking means employed for holding the several rod sections in the desired positions with relation to each other is effective.

The many advantages of the herein-

described invention will readily suggest themselves to those skilled in the art to which it appertains.

I do not desire to be understood as limiting myself to the exact details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made without departing from the spirit and scope of my invention and the terms of the following claim, hence I wish it to be understood that I reserve the right to make any such changes, or modifications as may fairly fall within the scope of the appended claim when fairly construed.

What I claim is:

In an umbrella rod structure, an upper rod section, a handle rod section, an intermediate section, a hinge joint connecting one end of the intermediate section with the upper section, a hinge joint connecting the other end of said intermediate section with the lower handle section, each of said hinge joints consisting of a joint member fixed to both the upper and lower sections, said joint members each being provided with a stop flange and a narrow tongue having a curved outer end provided with a plurality of peripheral sockets, a joint member fixed to each end of the intermediate section, said joint members each being provided with a stop flange and a bifurcated head having a curved outer end, a pin for hingedly uniting each pair of joint members, a pair of opposed oppositely directed slidable members disposed within the intermediate section, a pin fixed to and passing through the intermediate section midway its ends, a coiled spring disposed between said pin and each slidable member, a pin and slot connection to manipulate said slidable members, a locking tongue extending from each slidable member and said locking tongues passing through openings in the joint members of the intermediate section and their outer ends receivable in the peripheral sockets of the joint members of the upper and lower sections.

In testimony whereof, I have hereunto signed my name to the specification.

JOSEPH WALMSLEY.