

April 24, 1928.

1,666,980

J. E. SHARP

CABLE HEAD

Filed April 1, 1927

Fig. 1.

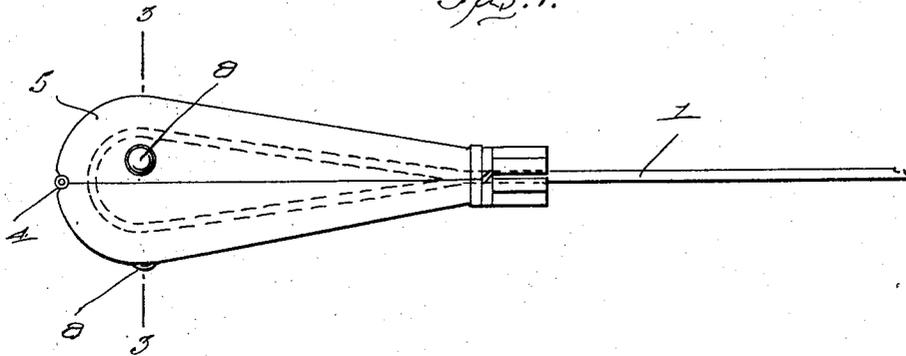


Fig. 2.

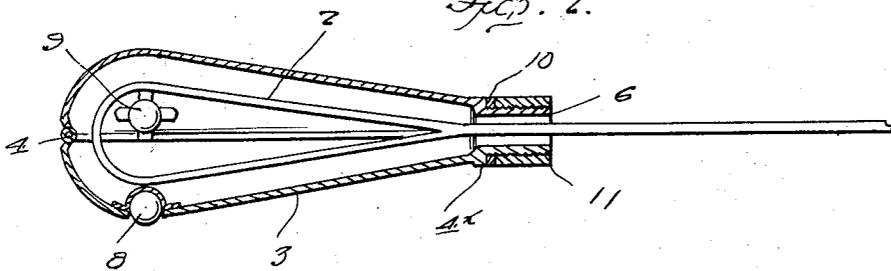
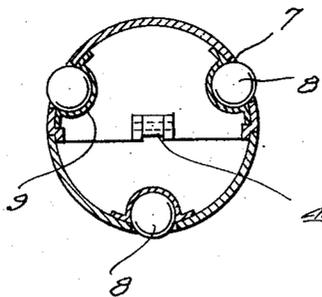


Fig. 3.



Inventor

John Ellsworth Sharp

By *Clarence A. O'Brien*
Attorney

UNITED STATES PATENT OFFICE.

JOHN E. SHARP, OF WHEELING, WEST VIRGINIA.

CABLE HEAD.

Application filed April 1, 1927. Serial No. 180,207.

The object of my said invention is the provision of a peculiar and advantageous head designed to be fastened over the eye in a steel snake with a view to enabling electricians or electrical workers to push the snake with facility through long stretches of conduit with forty five degree and ninety degree bends and so that there will be no liability of the snake being caught in bends, collars and couplings.

To the attainment of the foregoing, the invention consists in the improvement as hereinafter described and definitely claimed.

In the accompanying drawing forming part of this specification:

Figure 1 is a side elevation showing my novel head as properly applied to a steel snake.

Figure 2 is a vertical longitudinal section of the same with the snake in elevation.

Figure 3 is an enlarged cross section taken through the forward portion of the head per se in the plane indicated by the line 3—3 of Figure 1.

Similar numerals of reference designate corresponding parts in all the views of the drawing.

I show in Figures 1 and 2 a conventional steel snake 1 which may be and preferably is provided at its forward end with an eye 2.

My invention resides in the head and by a comparison of Figures 1, 2 and 3, the said head will be understood as comprising two sections 3 of steel or any other appropriate material, hingedly connected at their forward ends as designated by 4. The said sections 3 are shaped as illustrated so that when the head is closed as appears in the drawings, the head will have a forward rounded end 5, and the head will be tapered or gradually reduced in diameter toward its rear end.

The sections 3 are provided with shoulders 4* adjacent to their rear ends, and in rear of the said shoulders 4* the sections 3 are provided with semi-circular exteriorly threaded end portions 6. At 7 the sections 3 are apertured, and it will be noted that the said sections are equipped with balls 8, preferably of steel portions of which extend through the apertures 7. It will also be noticed that I equip the lower section 3 with a single ball 8, and the upper section 3 with two balls 8, and that I provide the sections 3 with interior cups 9 for the retention and maintenance of the balls 8 in proper working po-

sition. I would further have it understood in this connection that the major portions of the balls 8 are within the sections 3, and hence there is no liability of the said balls being casually displaced.

The sections 3 being hinged as described at the point 4, the said sections 3 are adapted to be sprung apart so as to permit of the ready placing of the head over the eye 2 of the snake 1, after the manner brought out clearly in Figures 1 and 2. After the head is closed over the eye 2 as stated, the sections 3 are secured in closed state over the eye 2 through the medium of a washer 10 and a nut 11. Both washer 10 and nut 11 are slotted or split for the ready lateral placing of the same over the snake 1, and it will be noticed that the washer 10 is adapted to abut against the shoulders 4*, and that the nut 11 which is preferably of angular form exteriorly is adapted to be positioned on and to engage the threads of the end portions 6 of the section 3 so as to strong hold the said end portions 6 together with a view to preventing casual displacement of the novel head from the eye portion 2 of the snake.

It will be gathered from the foregoing that by virtue of the head having the rounded forward portion and being tapered from said portion toward its rear end, the head may be moved with great facility through a conduit irrespective of any bends that may occur in the conduit. It will also be appreciated that the balls 8 render easy the pushing of the snake equipped with my novel head, and that while there is no liability of the head being casually depressed from the snake, yet when removal of the head is desirable, the same may be expeditiously and easily accomplished by displacing the nut 11 and washer 10 and then swinging the rear end portion of the sections 3 apart whereupon the eye 2 may be withdrawn from the head.

Notwithstanding the practical advantages of my novel head, the said head is simple and inexpensive in construction and in general is well adapted to withstand usage to which devices used in electric conduit are ordinarily subjected.

I have described the preferred embodiment of my invention in detail in order to impart a full, clear and exact understanding of the said embodiment. I do not desire, however, to be understood as limiting myself to the precise construction disclosed,

my invention being defined by my appended claims within the scope of which modifications may be made without departure from my invention.

6 Having thus described the invention, what I claim is:—

1. A head for snakes and other cables, comprising two sections of concavo-convex form in cross section, said sections being 10 hingedly connected together at their forward ends and being provided with comparatively large forward portions and tapered from said portions toward their rear ends and having adjacent to said ends shoulders and exteriorly threaded portions, a 15 split washer mounted on the end portions of the sections and adapted to abut against the shoulders thereof, and a split nut mounted on the threaded end portions of the sections. 20

2. A head for snakes and other cables, comprising sections of concavo-convex cross section hingedly connected at their forward ends and tapered from their forward portions toward their rear ends and having 25 apertures in their forward portions, cups on their inner sides opposite the said apertures, and balls disposed in said cups and

protruding through said apertures and having their major portions arranged within the sections, whereby casual displacement of the 30 balls is prevented, and means removably mounted on the rear portions of the sections for holding the sections together and the head in closed state on an eye or the 35 like at the forward end of a snake or other cable.

3. A head for snakes and other cables comprising sections of concavo-convex cross section hingedly connected together at their 40 forward ends and having rounded forward portions and tapered from said rounded forward portions toward their rear ends, and means for detachably holding the rear end portions of the sections together. 45

4. A snake head comprising concavo-convex sections hingedly connected together at their forward ends and having a comparatively large forward portion and anti-friction devices carried by and protruding 50 from said portions, and means for detachably holding the rear end portions of said sections together.

In testimony whereof I affix my signature.

JOHN E. SHARP.