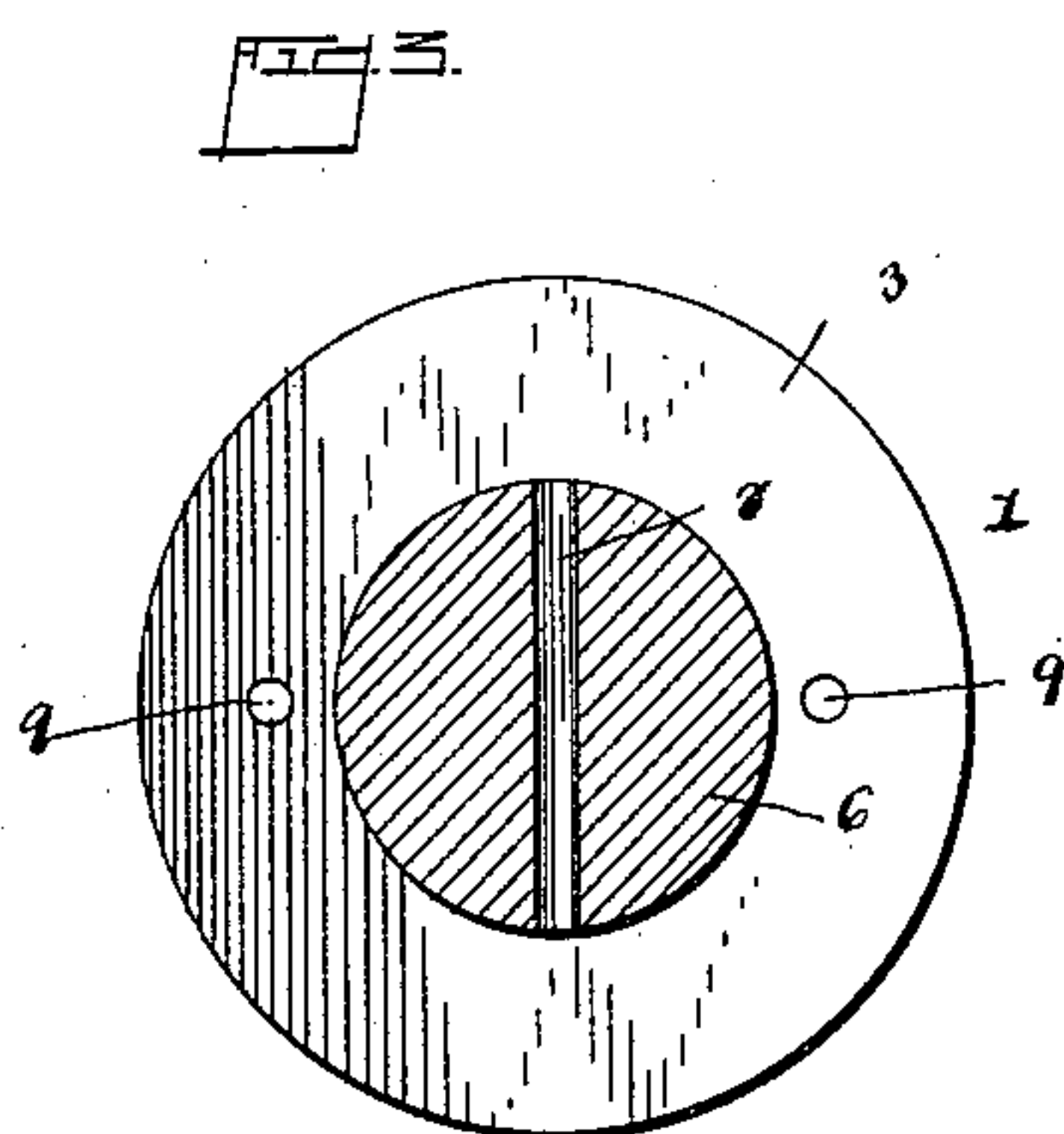
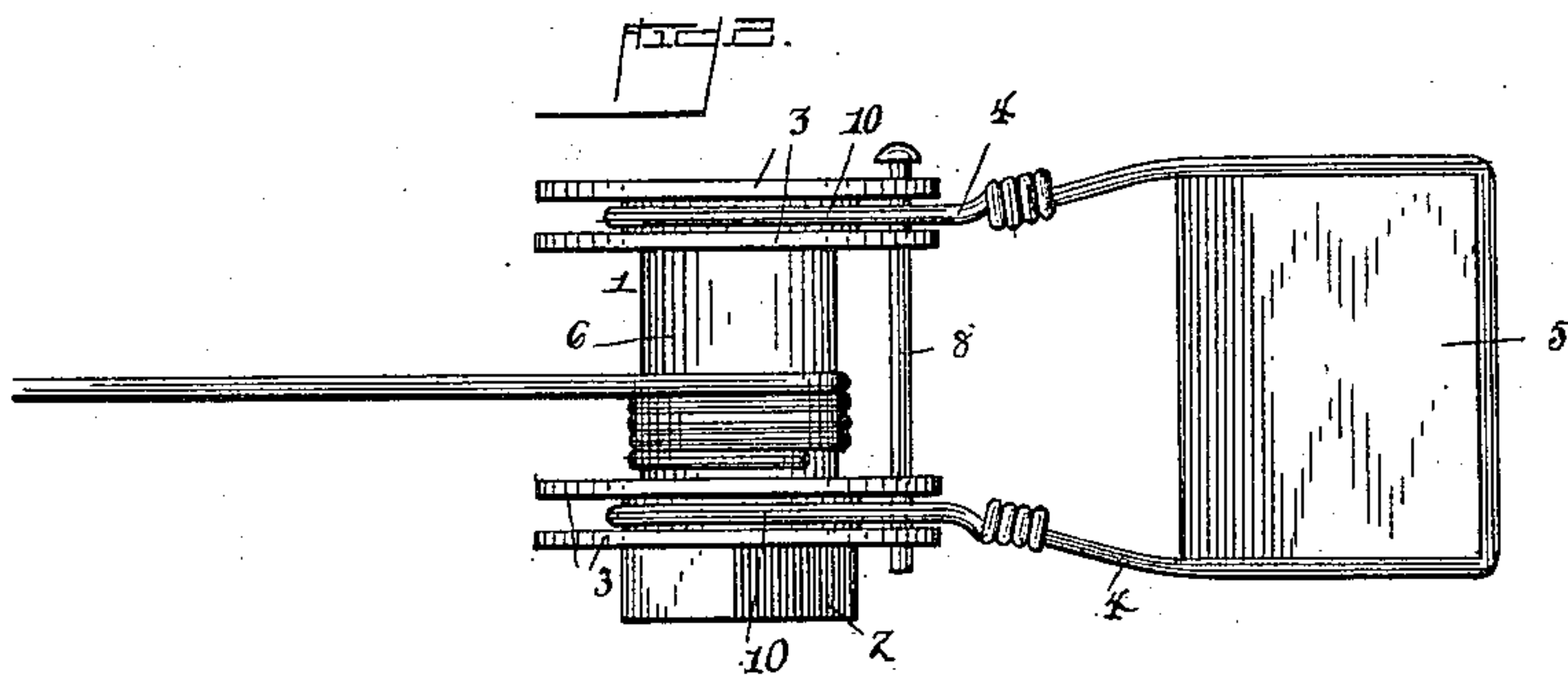
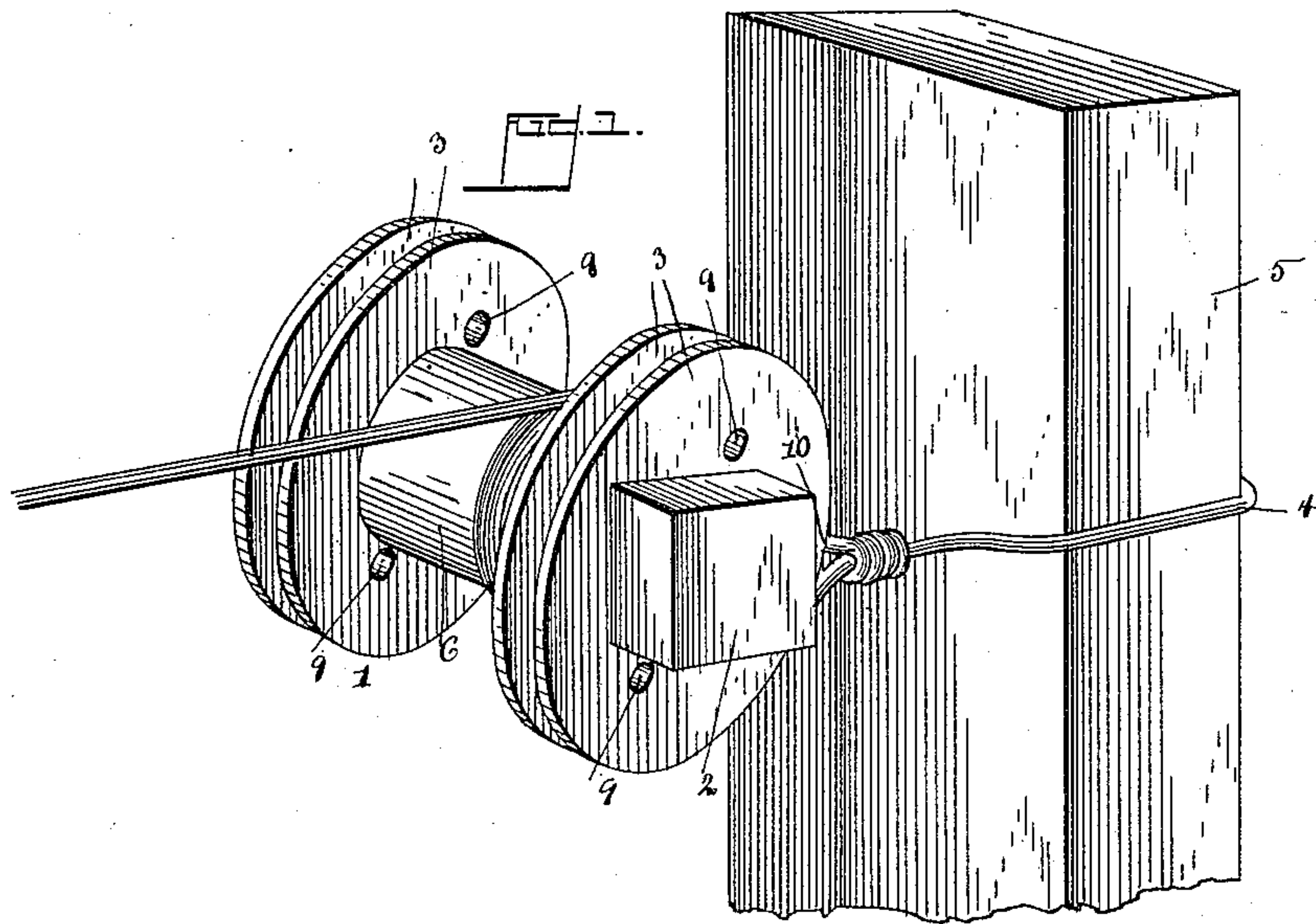


(No Model.)

C. H. BLACK.  
WIRE STRETCHER.

No. 463,475.

Patented Nov. 17, 1891.



Witnesses

Chas A Ford  
H. J. Riley

Inventor

Chas. H. Black.

By his Attorneys,

C. A. Snow & Co.

# UNITED STATES PATENT OFFICE.

CHARLES H. BLACK, OF ROANN, INDIANA.

## WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 463,475, dated November 17, 1891.

Application filed June 9, 1891. Serial No. 395,680. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. BLACK, a citizen of the United States, residing at Roann, in the county of Wabash and State of Indiana, have invented a new and useful Wire-Stretcher, of which the following is a specification.

The invention relates to improvements in wire-stretchers.

The object of the present invention is to provide a simple and inexpensive wire-stretcher adapted to be readily attached to a post and capable of being conveniently operated to secure a strand of wire at any desired tension.

This invention consists of the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a wire-stretcher constructed in accordance with this invention and shown applied to a fence-post. Fig. 2 is a plan view of the same. Fig. 3 is a detail sectional view of the stretcher.

Referring to the accompanying drawings, 1 designates a spindle, constructed of suitable material and having its end 2 squared and adapted to be engaged by a wrench to wind a wire upon the central portion of the spindle. The spindle is provided with two pairs of parallel annular flanges 3, which are arranged at one end of the spindle and near the other end 2, and the flanges of each pair form between them an annular groove to receive a securing-wire 4, which attaches and journals the spindle to a post 5. The inner flanges of each pair bound a central portion 6, upon which a wire is wound by turning the spindle, and the adjacent end of the wire is secured in an opening 7, extending through the spindle. The spindle is secured in its adjustment by a nail or pin 8, which is adapted to be arranged in perforations 9 of the flanges 3. The securing-wire 4 extends around the post and has

its ends provided with loops 10, which are arranged in the annular grooves of the spindle and form eyes or journal-bearings for the spindle. In attaching the spindle to the post one end of the wire is wound around the spindle in the annular groove between a pair of the flanges 3, and the end of the wire is twisted around the adjacent portion. The wire is then passed around the post, and the other end is secured similarly to that already described.

It will be seen that the wire-stretcher is simple and inexpensive in construction, adapted to be readily secured to a post, and is capable of maintaining a wire at any desired tension.

What I claim as new is—

1. A wire-stretcher comprising a spindle having one end squared or made angular, and annular flanges arranged in pairs and provided with registering perforations 9 and having between the pairs a central portion adapted to receive a wire to be stretched, the flanges of each pair being arranged parallel to each other and forming an annular groove, and a locking-pin 8, arranged in the perforations 9, substantially as and for the purpose described.

2. In a wire-stretcher, the combination of the securing-wire passed around a post and provided at its ends with eyes or loops, the spindle having one end squared and provided with parallel annular flanges arranged in pairs and provided with registering perforations 9 and having between the pairs a central portion to receive the wire to be stretched, the flanges of each pair forming an annular groove receiving an eye or loop of the securing-wire, and a locking-pin 8, arranged in the perforations 9, substantially as described.

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

CHARLES H. BLACK.

Witnesses:

J. M. BOWMAN,  
SHELLY ARTHUR.