

No. 880,416.

PATENTED FEB. 25, 1908.

H. E. STEVENS.
WIRE SUSPENDING DEVICE.
APPLICATION FILED NOV. 9, 1906.

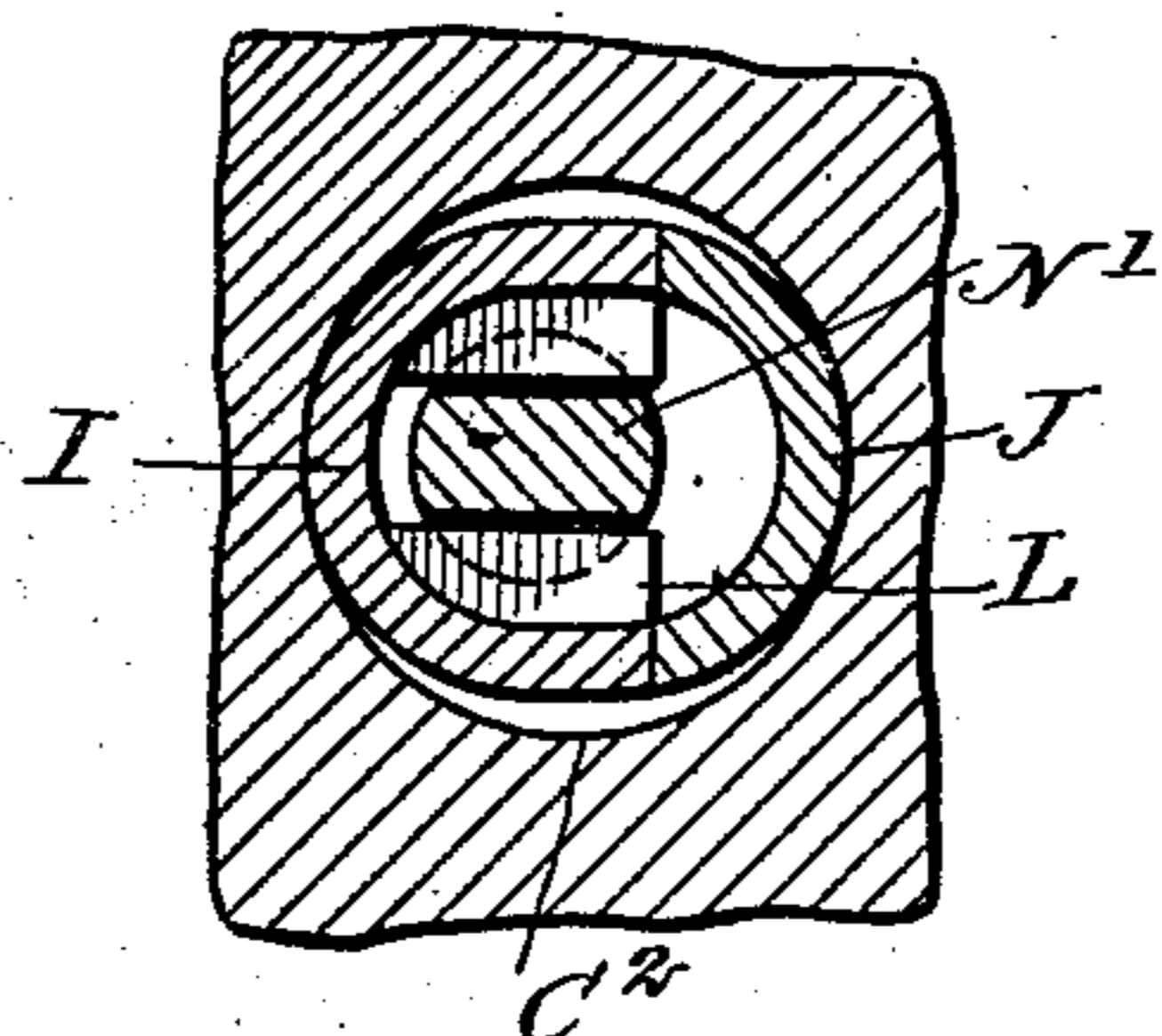
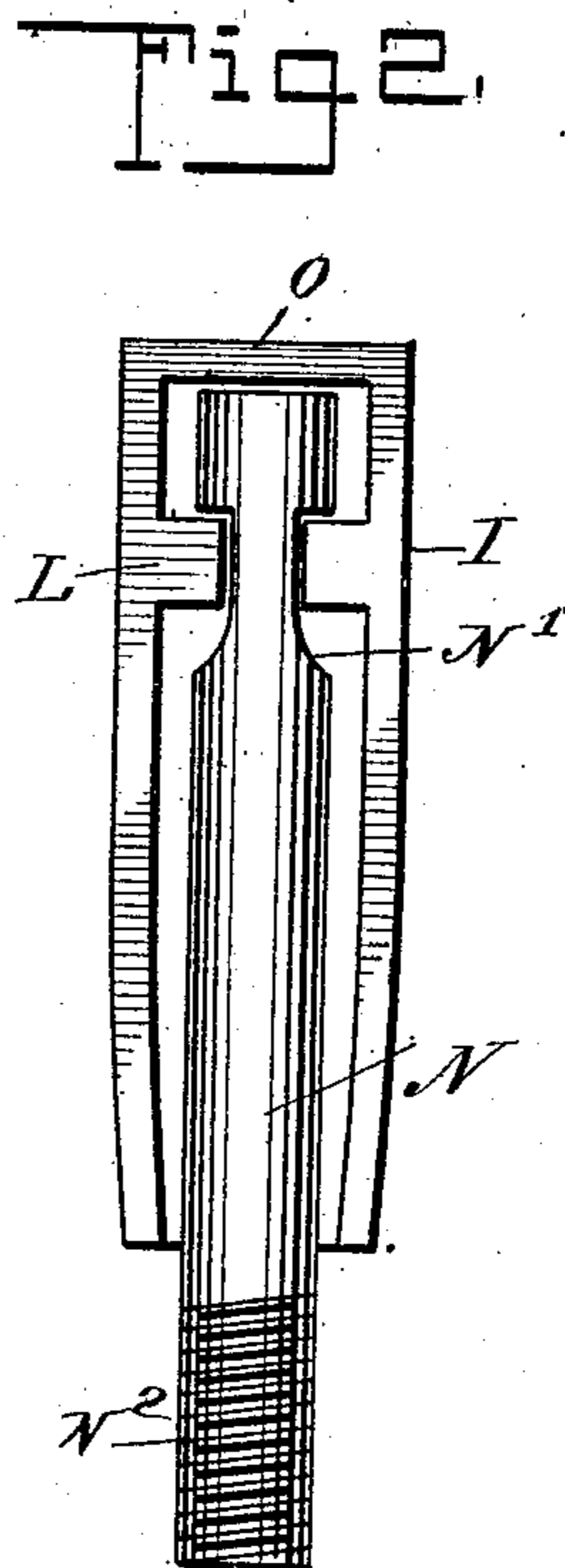
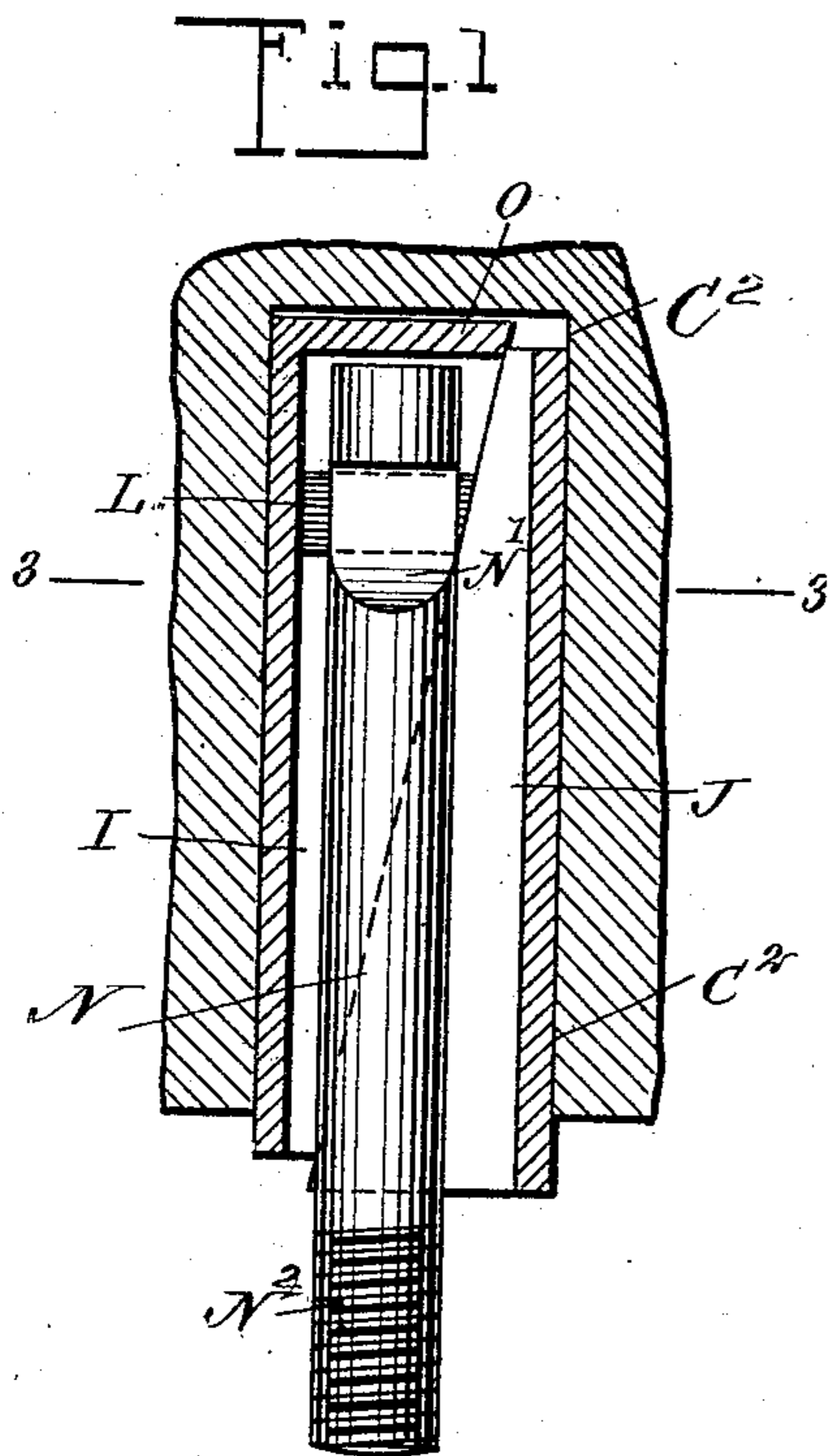


Fig. 3

WITNESSES
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UNITED STATES PATENT OFFICE.

HERBERT E. STEVENS, OF MACDONALDTON, PENNSYLVANIA.

WIRE-SUSPENDING DEVICE.

No. 880,416.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed November 9, 1906. Serial No. 342,614.

To all whom it may concern:

Be it known that I, HERBERT E. STEVENS, a citizen of the United States, and a resident of Macdonaldton, in the county of Somerset and State of Pennsylvania, have invented a new and Improved Wire-Suspending Device, of which the following is a full, clear, and exact description.

The invention relates to wire suspending devices such as shown and described in the Letters Patent of the United States, No. 741,563, granted to Herbert E. Stevens and Burt Gellatly, on October 13, 1903.

The object of the present invention is to provide a new and improved wire suspending device which is simple and durable in construction, easily applied, and more especially designed for use in mine and other places, for suspending and securely retaining in position the feeder or trolley wire of an electric haulage device or the like.

The invention consists of novel features and parts and combinations of the same, which will be more fully described herein after and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional side elevation of the improvement as applied to a mine roof shown in section; Fig. 2 is a face view of the member carrying the bolt, and Fig. 3 is an inverted sectional plan view of the improvement on the line 3—3 of Fig. 1.

The members I and J of the wire suspending device shown in the drawing are made half tubular and wedge-shaped, to allow of sliding the member J on the member I, both members being adapted to engage a socket C² bored, cut or otherwise formed in the roof of a mine or other place on which the device is to be used. The member I is provided near its upper base end with a recessed lug L for engagement by the notched portion N' of a bolt N. The bolt N is provided at its lower end with a screw thread N² for engaging the insulated support or hanger for the trolley or feed wire with a view to suspend the same below the roof of the mine.

In using the device the member I, with the bolt N suspended therefrom, is placed in position in the socket C² and then the member J

is moved lengthwise along the member I into the socket C², so as to engage one side of the wall thereof and by its wedge shape force the other member I against the opposite wall of the socket while it securely clamps the members I and J in position in the socket C². By reference to the drawings it will be seen that the bolt N depends from the lower apex end of the member I, so that any desired pull on the bolt N causes a tightening of the members I and J in the socket C², and consequently there is no danger of the wire suspending device becoming loose in the socket.

From the foregoing it will be seen that by the arrangement described the wire suspending device is exceedingly serviceable for trolley lines having sharp curves and in which the strain against the trolley wire is considerable during the travel of a car around the curve.

It will also be noticed that by the arrangement described comparatively small holes or sockets have to be formed in the roof of the mine for the reception of the members I and J, and when it is desired to remove the wire suspending device from the line it is only necessary to tap the lower end of the bolt N, or member I so as to release the member I from the member J and allow of sliding the latter out of the socket C², and then the member I carrying the bolt N.

By the arrangement described the bolt N is suspended from the member I, and the latter is securely locked in place in the socket C² by driving up the member J. The base or upper end of the member I is preferably closed as at O (see Figs. 1 and 2.)

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A wire suspending device comprising a wedge-shaped half tubular member, having a recessed lug at the inside near the upper or base end, a separable bolt held on and depending from said lug, a second wedge-shaped half tubular member capable of sliding on the first mentioned member, the said members being adapted to be inserted in a socket, and the said second member when in position on the first member partly surrounding the bolt but out of engagement therewith.

2. A wire suspending device comprising a pair of wedge-shaped tubular members adapted to be inserted in a socket and capable to slide one on the other, one of the mem-

bers having a recessed lug, and a bolt having its shank recessed near the upper end for engagement with the said recessed lug.

3. A wire suspending device comprising a
5 pair of wedge-shaped tubular members adapted to be inserted in a socket, and capable to slide one on the other, one of the members being closed at its base end and provided near this end with a recessed lug, and a
10 bolt having its shank recessed near the upper end for engagement with the said recessed lug.

4. A wire suspending device comprising a pair of wedge-shaped half tubular members adapted to be inserted in a socket and capa-

ble of sliding one on the other, one of said 15 members being provided near its upper or base end with a lug having a recess open at one end, and a bolt having its shank adapted for engagement with said recessed lug, the said bolt when in position in the lug extending 20 below the lower or apex end of said member.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERBERT E. STEVENS.

Witnesses:

BENJ. F. HOFFACKER,

J. B. McCABE.