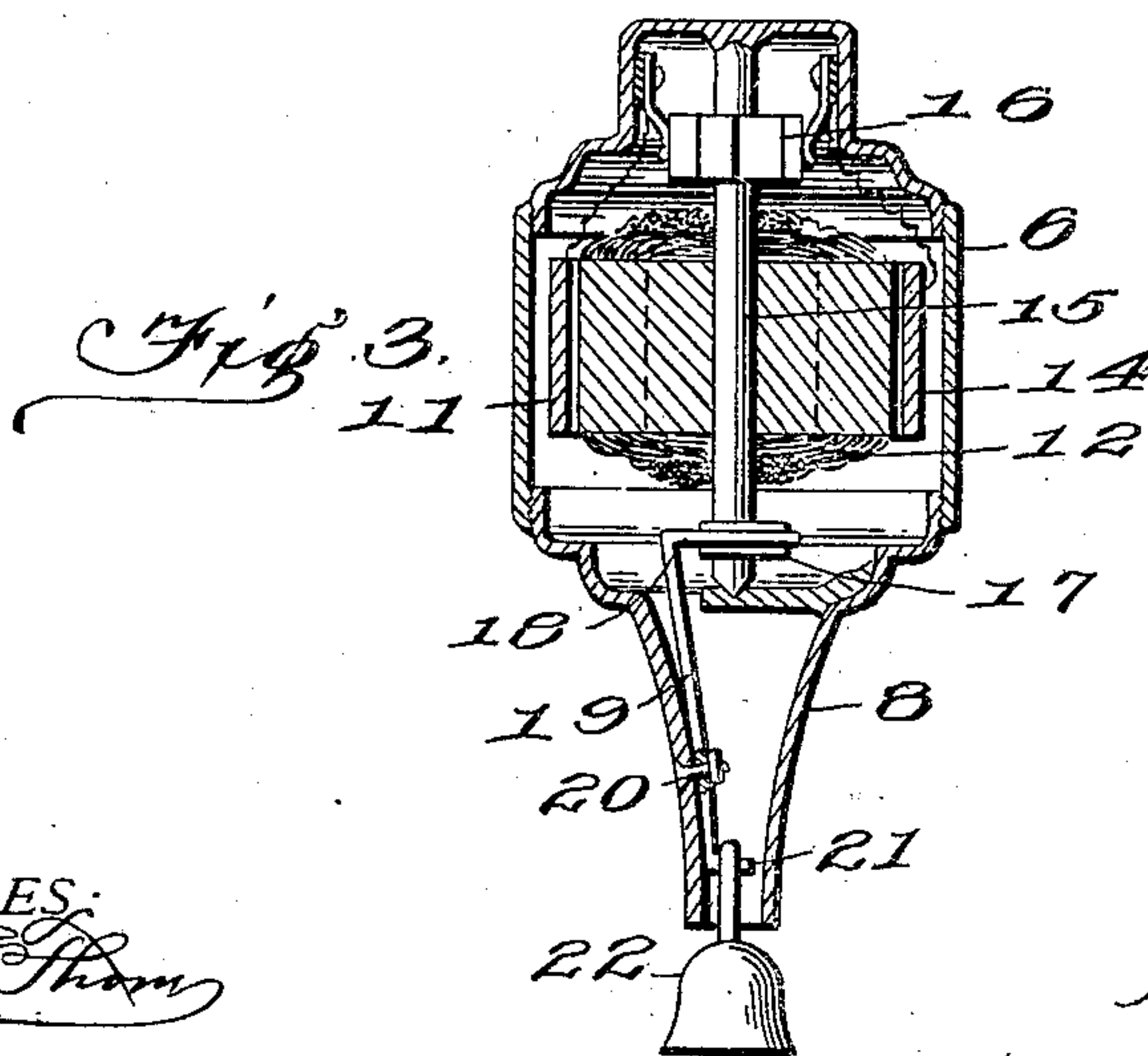
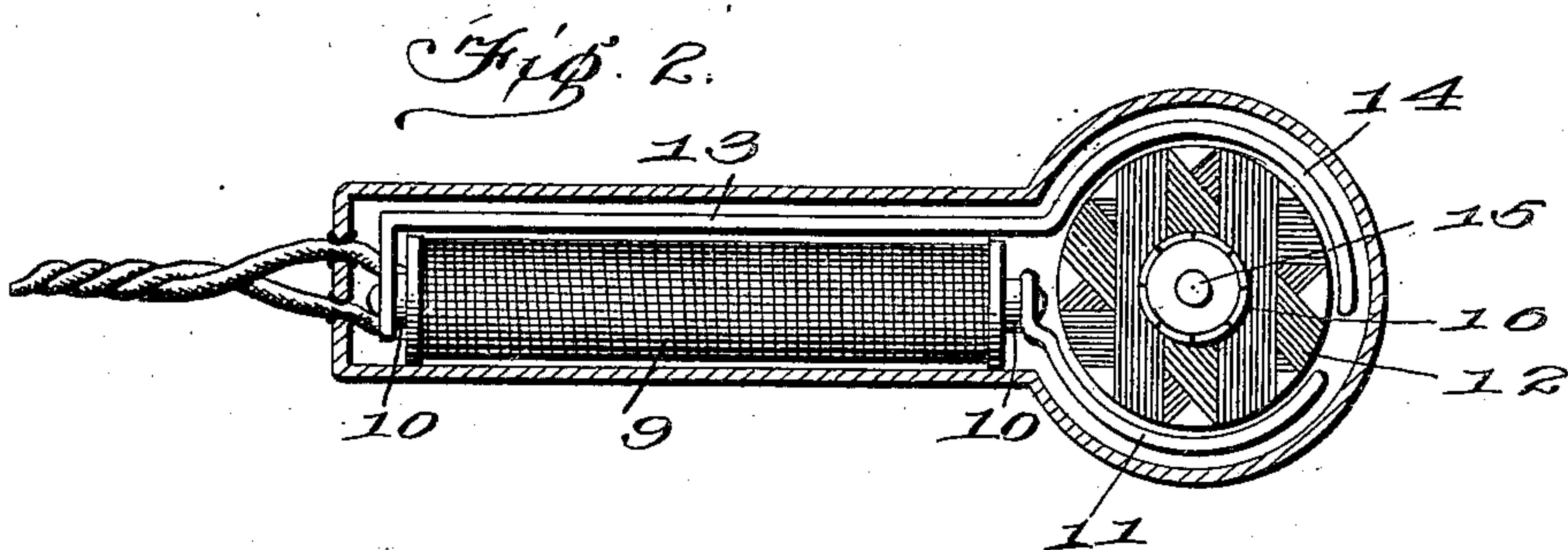
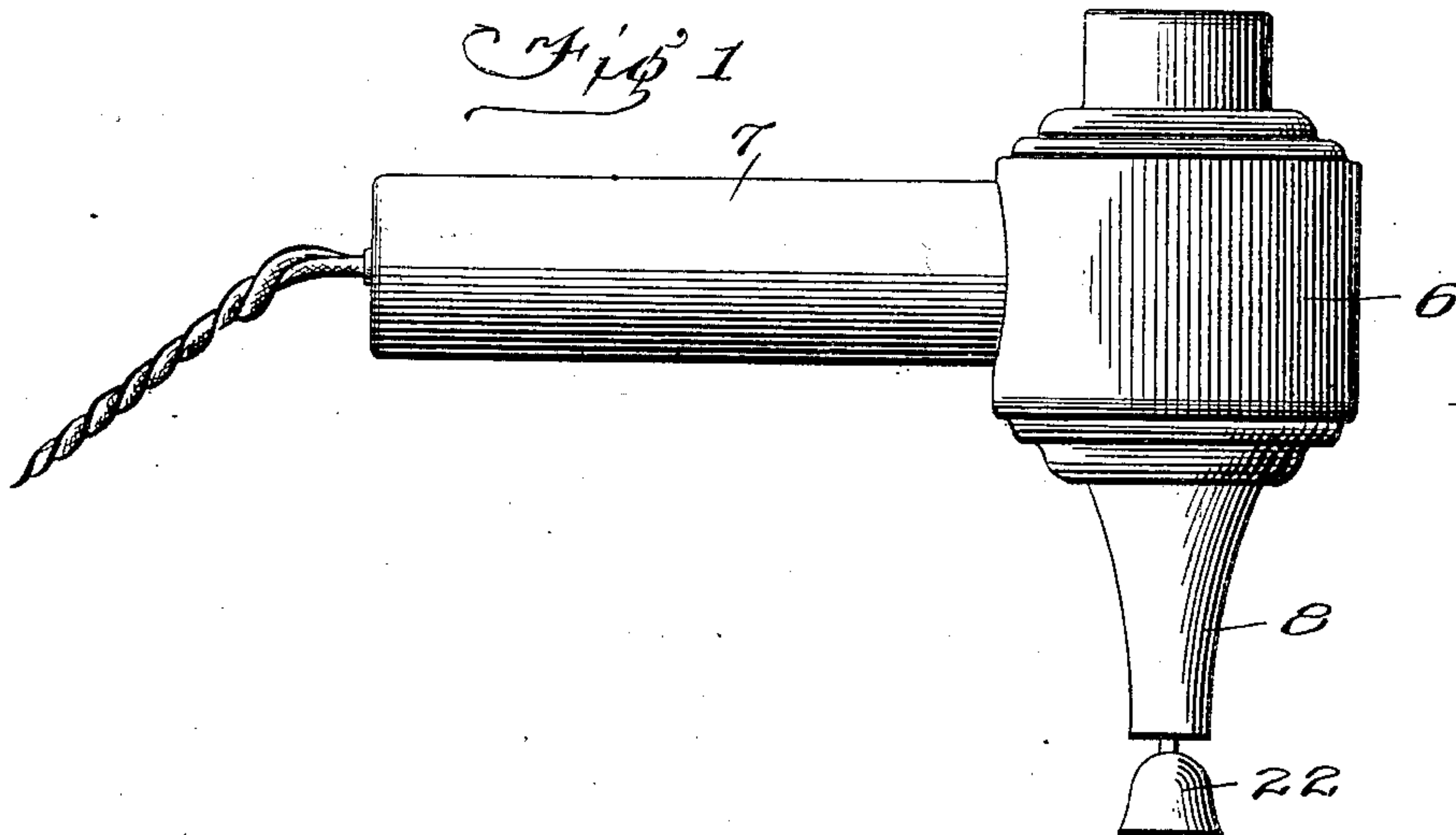


H. C. BROWN.
VIBRATORY MASSAGE APPARATUS.
APPLICATION FILED MAY 23, 1908.

921,671.

Patented May 18, 1909.



WITNESSES:
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HOWARD C. BROWN, OF CHICAGO, ILLINOIS.

VIBRATORY MASSAGE APPARATUS.

No. 921,671.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed May 23, 1908. Serial No. 434,559.

To all whom it may concern:

Be it known that I, HOWARD C. BROWN, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Vibratory Massage Apparatus, of which the following is a specification.

This invention relates to electric vibratory massage apparatus, and especially to that class of implements which are held in the hand while being manipulated or operated.

Common appliances of this kind have the coils of the magnet placed on opposite sides of the rotary armature, and this causes the entire weight of the coils and magnet to be placed at the end of the handle, which makes the apparatus cumbersome and heavy and tiresome to handle.

The object of the present invention is to remedy this condition by a novel construction characterized by the fact that the coil and magnet extend lengthwise in the hollow handle, and so the weight is balanced or evenly distributed, and the implement can be used without fatigue and generally more conveniently.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the implement. Fig. 2 is a horizontal section. Fig. 3 is a vertical section.

The implement has a suitable inclosing casing or cover, consisting of a hollow head 6 and a tubular handle 7, the former having a tapered extension 8 on the under side. The motor coil is indicated at 9 and its core at 10. These are located or extend lengthwise within the tubular handle 7. The field or pole piece 11 at the front end is attached to the core at one end and is curved in substantially semi-circular form around one side of the armature 12, and the other pole or field piece 13 is connected to the rear end of the core and extends thence along the side of the magnet to the front end thereof, and is curved around the opposite side of the armature, as shown at 14, the curved ends 11 and 14 fitting within the circular part of the head 6. The armature is mounted upon a spindle 15 which also carries the commutator 16 on its upper end, and on its lower end it has an

eccentric 17 which works within a yoke 18 offset from the upper end of a lever 19 which is pivoted on a screw 20 to the side of the tubular extension 8, and at the lower end the lever has an offset arm 21 which carries the applicator or pad 22 which is applied to the surface to be massaged.

By the construction shown the heavier parts of the device are contained in or extend along within the handle, instead of being grouped at one end thereof. This enables the instrument to be handled with much more facility than would otherwise be the case, and enables the pressure applied to the applicator to be nicely controlled. The rotation of the armature vibrates the lever 19 and so vibrates the pad or applicator in an obvious manner, the eccentric 17 working between the arms of the yoke 18 and so causing the lever to vibrate on its pivot 20.

I claim:

1. A vibratory massage implement, having an outer casing comprising a hollow head and handle arranged at an angle to each other, and an electric motor the core and field coil of which extend lengthwise in the handle, and having pole pieces extending from opposite ends of the core and around opposite sides of the head, and an armature and its shaft within the head and between the pole pieces, with its axis at an angle to that of the coil.

2. A vibratory massage implement having a casing comprising a hollow handle and head, an electric motor field coil and core extending lengthwise in the handle and having pole pieces at opposite ends extending into the head, the pole pieces connected to the rear end being bent around and extending along beside the coil to the front end thereof, and an armature and its shaft located between said pole pieces, in the head of the casing with its axis at an angle to that of the coil.

In testimony whereof I affix my signature, in presence of two witnesses.

HOWARD C. BROWN.

Witnesses:

WM. J. ROBINSON,
NELLIE FELTSKOG.