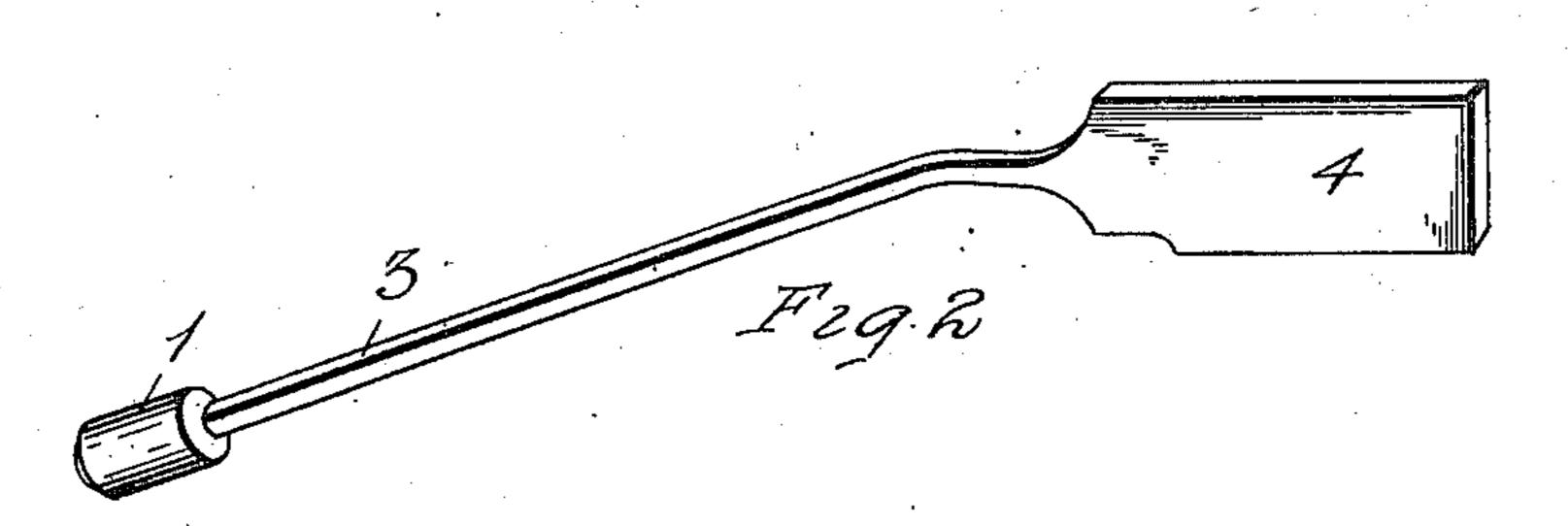
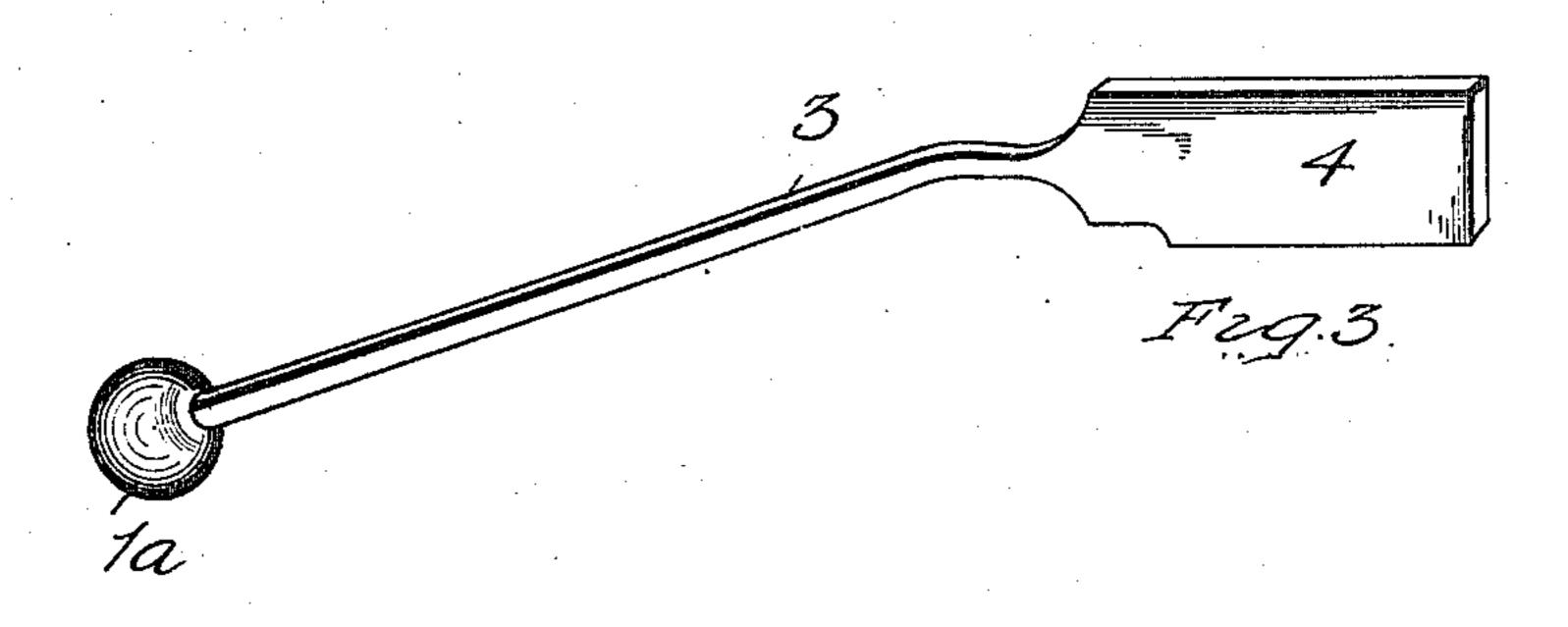
H. W. EDEN.

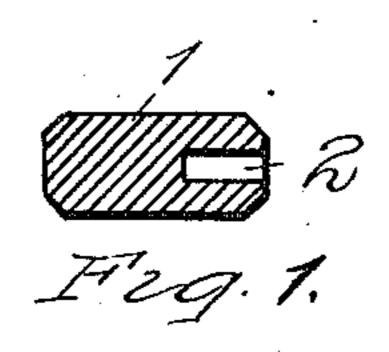
CONSTRUCTION OF BELL HAMMERS. APPLICATION FILED JAN. 9, 1908.

948,970.

Patented Feb. 8, 1910.







WITNESSES

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CONSTRUCTION OF BELL-HAMMERS.

948,970.

Specification of Letters Patent. Patented Feb. 8, 1910. Application filed January 9, 1908. Serial No. 409,914.

To all whom it may concern:

Be it known that I, Harold W. Eden, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Construction of Bell-Hammers, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to the construction

15 of bell hammers.

It has for its object an improved process of constructing the hammer used in connection with a signal bell, and this process consists in forming up a metal which is used 20 for the handle or stem of the bell hammer, preferably in a form which is rectangular in cross section, forming up the metal that is used as the head of the hammer from a short piece of rod, in which there is drilled 25 along the axis of the rod a hole into which the rectangular stem may be easily inserted, then pressing or swaging the section of rod into the form of a hammer head by heavy pressure which changes the external shape from a cylindrical shape to a spherical or nearly spherical shape, and at the same time causes the metal to contract so firmly on the end of the handle that it cannot be removed therefrom by any force that is not sufficient 35 to disrupt or break the metal.

In the drawing:—Figure 1, shows a section of rod prepared to be used for the for-

mation of a hammer head. Fig. 2, shows the section of rod prepared for a hammer head, with the end of a handle inserted in 40 the hole in said rod. Fig. 3, shows the finished bell hammer.

1 indicates a short section of rod pro-

vided with a drilled hole 2.

3 indicates the hammer handle made 45 prismatic in cross section, and shaped to the desired form to combine the hammer handle 3 and the armature 4, by means of which it is electrically actuated.

1ª indicates the head after it has been 50 pressed and swaged into the form which it is finally to take, spherical, or nearly spherical, with the metal forced into intimate contact with the end of the handle 3, the pressure being sufficient to change the shape 55 of the end of the handle.

What I claim is:—

The process of producing a signal bell hammer, consisting in inserting over the prismatic end of a unitary armature and 60 hammer handle stamped from a sheet of metal the centrally bored portion of a cylindrical mass of malleable metal, and swaging the same into spherical shape about said prismatic handle end, and thereby forcing 65 portions of the metal mass into binding engagement thereabout, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

HAROLD W. EDEN.

Witnesses:

CHARLES F. BURTON, VIRGINIA C. SPRATT.