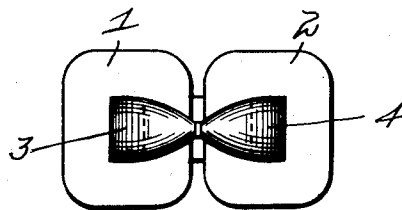
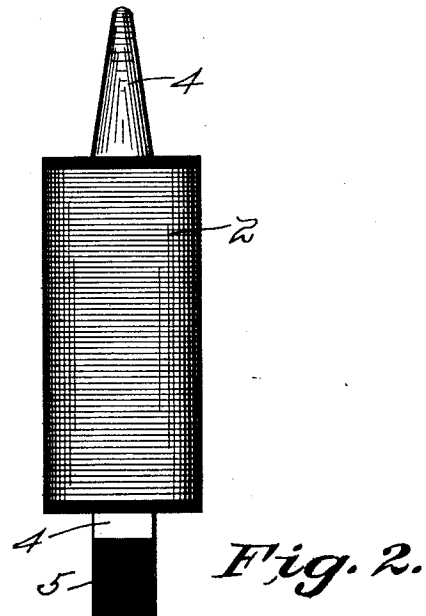
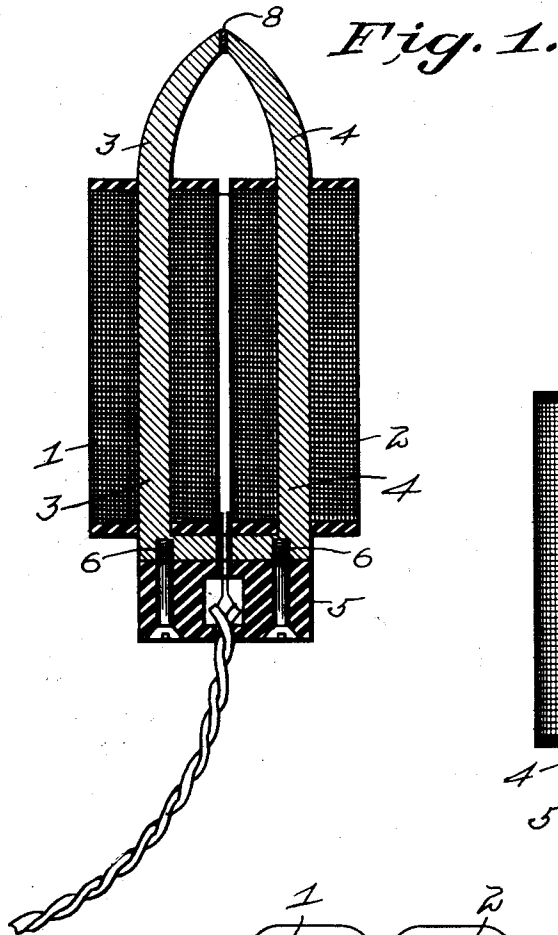


No. 889,346.

PATENTED JUNE 2, 1908.

H. THOMASSEN.
EYE MAGNET.

APPLICATION FILED MAY 1, 1907.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

HAROLD THOMASSEN, OF DAYTON, OHIO.

EYE-MAGNET.

No. 889,346.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed May 1, 1907. Serial No. 371,317.

To all whom it may concern:

Be it known that I, HAROLD THOMASSEN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Eye-Magnets; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in surgical magnet appliances adapted for attracting from the eye any magnetic material, such for example, as metal splinters or atoms which may have accidentally found lodgment therein.

The object of the invention is to provide a powerful electro-magnet consisting of two solenoids which may be otherwise termed a bi-polar magnet, the soft iron cores of which are extended a substantial distance beyond the ends of the solenoids and converge at their ends thus increasing the magnetic force by bringing the lines thereof to a converging point.

A further object of the invention is to provide such an appliance which may be easily handled by the operator, and owing to the cores or pole pieces being converged to a point, the magnetic influence may be directed upon any particular point of the eye ball.

A further object of the invention is to provide a comparatively inexpensive instrument of the above type so that it may reach a more extended field of usefulness.

Preceding a detail description of the invention, reference is made to the accompanying drawings, in which—

Figure 1, is a longitudinal mid-sectional view of my bi-polar eye magnet. Fig. 2, is an elevation at right angles to Fig. 1. Fig. 3, is an end view showing the converging ends of the cores.

In a detail description of the invention, similar reference characters indicate corresponding parts.

1 and 2 designate two solenoids with soft iron cores 3 and 4 united at one end of the solenoids to a suitable block 5 of insulating material and to which the cores are attached by countersunk screws 6. The soft iron cores 3 and 4 extend entirely through the axes of the solenoids and the ends so projecting are tapered and brought together in the form of an arc. Placed between the extreme ends of the cores is a suitable piece of non-magnetic material 8 which is united in such position and presents a smooth terminal of the cores thus obviating any possibility of any damage being done to the eye ball through contact therewith. These tapering and converging ends of the cores constitute north and south poles of the magnet, and the lines of magnetic force by thus being directed to a converging point intensifies the magnetic influence of the instrument to a desired extent and renders the same highly efficient in the removal of metallic substances from the eye.

Owing to the compact form of the instrument, it requires no supporting stand but may be easily manipulated in the hands of the operator and placed in any desired position without requiring the patient any inconvenience.

Having described my invention, I claim:

A bi-polar eye magnet comprising two solenoids, the cores of which extend beyond the ends of the solenoids and converge to a point, and the other ends of which are joined by an integral piece lying on the outside of the solenoids, and a block of non-conducting material attached to said united portion of the cores to form a handle for the manipulation of the implement.

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

HAROLD THOMASSEN.

Witnesses:

C. M. THEOBALD,
MATTHEW SIEBLER.