(No Model.)

J. A. ROBINSON.

INDUCTION COIL.

No. 332,559. Patented Dec. 15, 1885.

Fig. 1

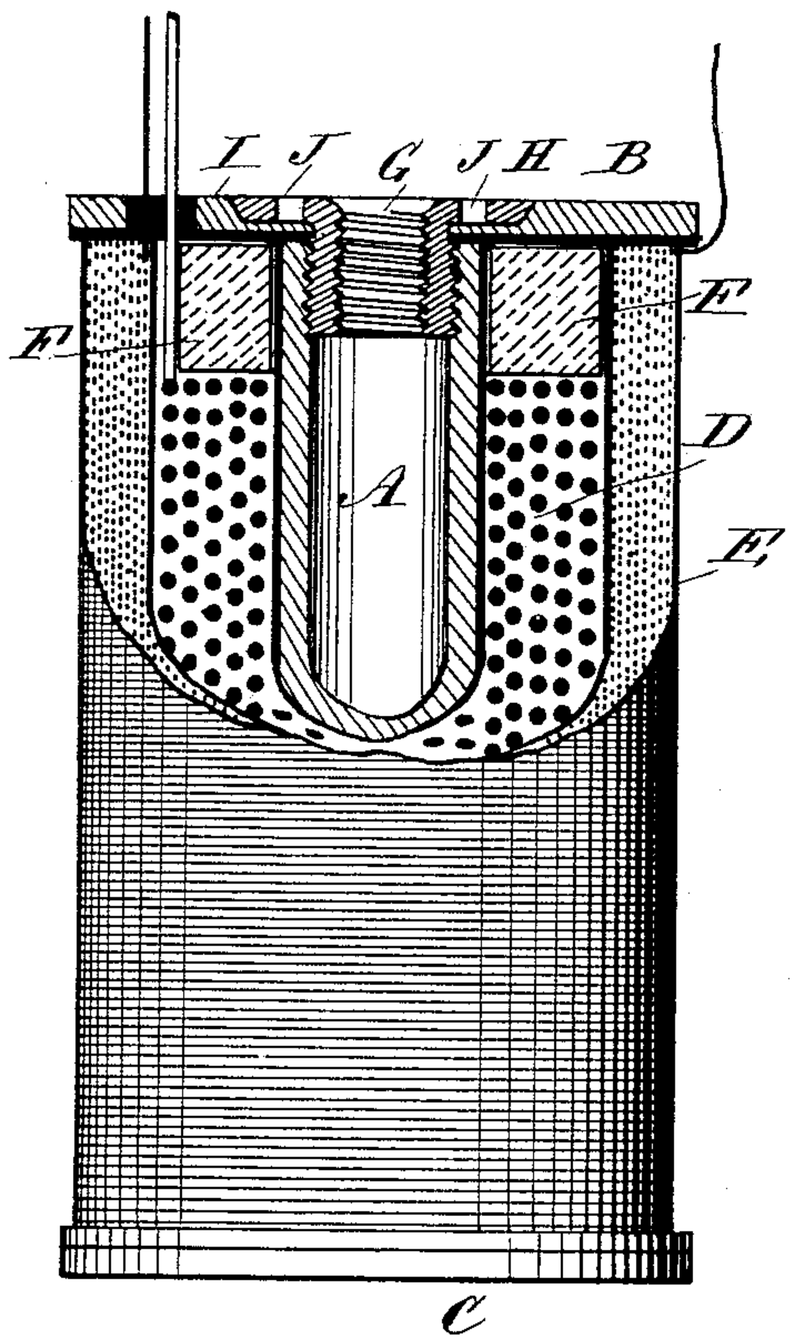


Fig. 3

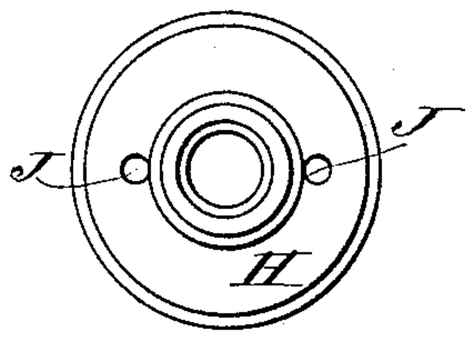
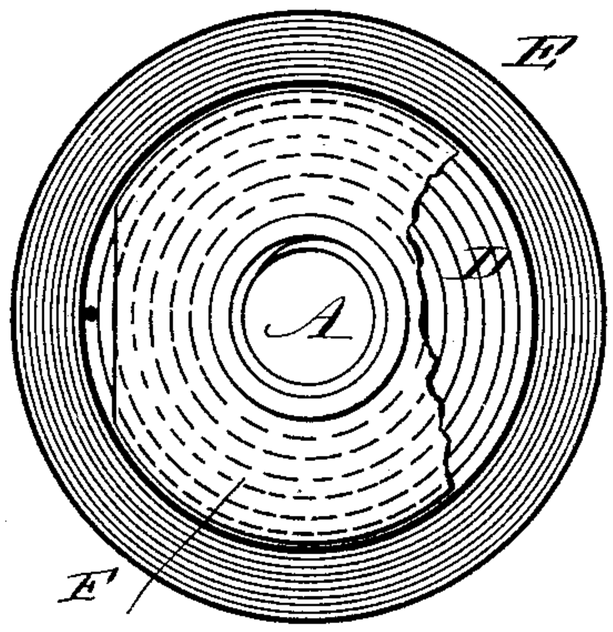


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES A. ROBINSON, OF NASHVILLE, TENNESSEE.

INDUCTION-COIL.

SPECIFICATION forming part of Letters Patent No. 332,559, dated December 15, 1885.

Application filed March 16, 1885. Serial No. 159,101. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. ROBINSON, of Nashville, in the county of Davidson and State of Tennessee, have invented a new and Improved Induction-Coil, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved induction-coil which is so constructed that both the outer and the inner wires can easily be repaired or pieced without requiring rewinding of the wires.

The invention consists in the combination, with an induction-coil having a tubular core internally screw-threaded at one end, of a detachable head and a tubular screw passed through the head and screwed into the end of the core.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side and partially-sectional view of my improved induction-coil. Fig. 2 is a sectional plan view of the same. Fig. 3 is a plan view of the screw-cap in the top head of the induction-coil.

The induction-coil is provided with the hollow or tubular core A and the heads B C, of which the latter is fixed and the former detachable. The coarse wire D is wound around the core to within a short distance from the end, and the fine wire E is wound around the coarse wire up to the head B. Filling-pieces F, of wood or other material, are placed between the top of the coarse-wire coil and the head B. The upper end of the core A is screw-threaded internally, and a tubular screw, G, having a flat head, H, is screwed into the top or threaded end of the core, the outer surface of the head B being provided with a countersink or recess, I, around its aperture for receiving the head H. The head H has two apertures, J, for receiving lugs of a key for turning the head and tubular screw.

To repair the fine wire in case it is broken, the screw G is unscrewed, and the head B and the filling-piece F are removed. The screw G holds the core A and head B firmly together.

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

1. An induction-coil having a tubular core internally screw-threaded at one end, combined with a screw fitting in said core, substantially as herein shown and described.

2. In an induction-coil, the combination, with a tubular core internally screw-threaded at one end, of a detachable head and a tubular screw for holding the head on the end of the core, substantially as herein shown and described.

3. In an induction-coil, the combination, with a tubular core internally screw-threaded on one end, of a head having a countersink and a tubular screw provided with a head fitting in the countersink in the head of the induction-coil and engaging the tubular core, substantially as herein shown and described.

4. In an induction-coil, the combination, with a tubular core screw-threaded at one end, of a detachable head and a screw engaging with said core and having a flat head provided with apertures for a key, substantially as herein shown and described.

5. In an induction-coil, the combination, with the tubular core A, of the coarse-wire coil D, the fine-wire coil E, and the filling-piece F, substantially as herein shown and described.

JAMES A. ROBINSON.

Witnesses:
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