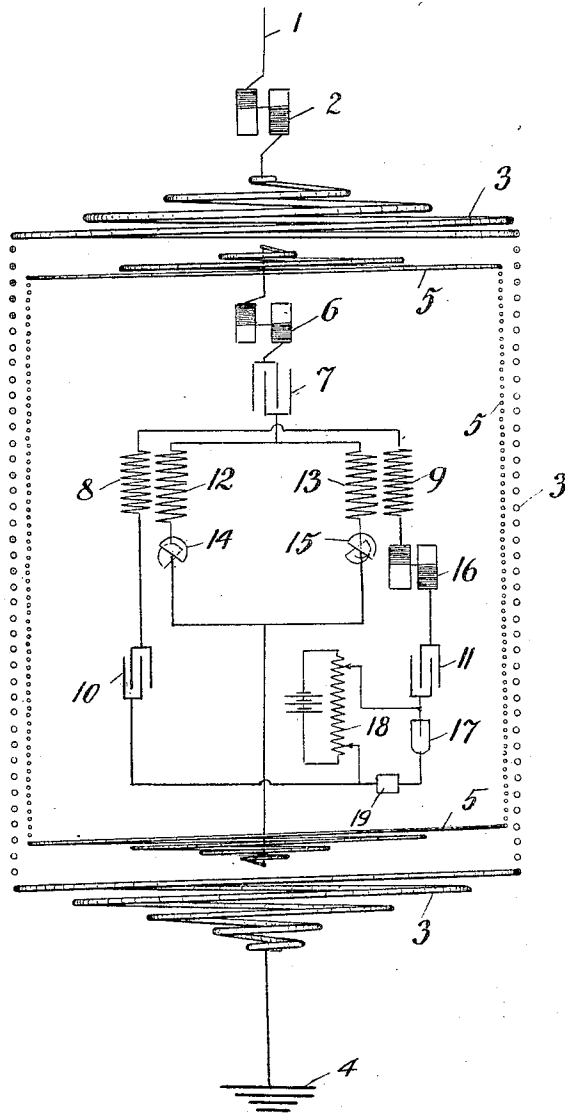


R. A. FESSENDEN.
WIRELESS TELEGRAPHY.
APPLICATION FILED OCT. 6, 1906.



Witnesses.

Jessie E. Bent
Arthur Wilson

Reginald A. Fessenden Inventor.

UNITED STATES PATENT OFFICE.

REGINALD A. FESSENDEN, OF WASHINGTON, DISTRICT OF COLUMBIA.

WIRELESS TELEGRAPHY.

No. 897,278.

Specification of Letters Patent.

Patented Sept. 1, 1908.

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To all whom it may concern:

Be it known that I, REGINALD A. FESSENDEN, a citizen of the United States, residing at 1737 Riggs Place, Washington, in the District of Columbia, have invented certain new and useful Improvements in Wireless Telegraphy, of which the following is a specification.

The invention especially relates to means for cutting out disturbances as hereinafter more fully described and claimed.

The accompanying drawing forming a part of this specification shows in diagram and partial section a desirable form of apparatus for carrying out the invention.

In the practice of my invention the receiver is placed in a secondary circuit operatively connected to the aerial and the primary circuit is so arranged as to act as a shield to the secondary circuit against electrostatic disturbances.

In the figure, 1 is an aerial, 2 a variable inductance, 3, 3, 3 is the primary of the inductive circuit, grounded at 4.

5, 5, 5 is the secondary of the inductive circuit.

6 and 16 are variable inductances, 7, 10 and 11, 14, 15 are capacities preferably variable.

17 is a receiver, preferably a liquid barretter, 19 a receiving instrument preferably a telephone and 18 a potentiometer.

8 and 9 are the primaries and 12 and 13 the secondaries of an interference preventer,

of my split circuit type, wherein undesired impulses are by proper tuning caused to divide equally between two circuits, so that their effects neutralize each other. But this not being part of the present invention need not be further described.

In the operation of my invention the primary 3 will act to shield the secondary 5 and the circuits connected thereto from electrostatic disturbances.

What I claim is:

1. In signaling apparatus an inductive coupling, and a receiver placed in the secondary of the coupling, and within influence of the primary so that the primary acts to shield it from disturbing influences.

2. In signaling apparatus an inductive coupling, and a receiver connected in the secondary of said coupling, the receiver being placed within the primary and being protected thereby from disturbing influences.

3. In receiving apparatus for wireless telegraphy an inductive coupling comprising a primary, and a secondary and a receiver in circuit therewith,—all inclosed within the primary of the coupling.

Signed at Brant Rock in the county of Plymouth and State of Mass. this 4th day of October A. D. 1906.

REGINALD A. FESSENDEN.

Witnesses:

JESSIE E. BENT,
ADELEINE WOLENER.