

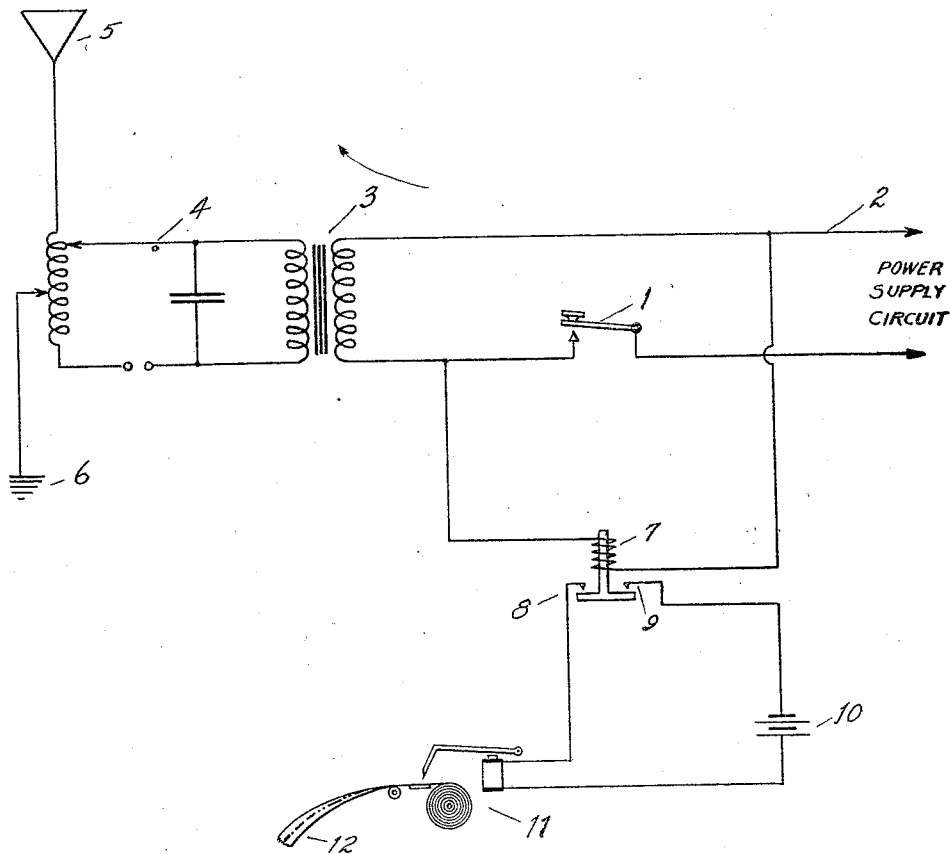
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1,543,726

K. ROTTGARDT

RADIO TRANSMISSION RECORDING SYSTEM

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UNITED STATES PATENT OFFICE.

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RADIO TRANSMISSION RECORDING SYSTEM.

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(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that I, KARL ROTTGARDT, residing at Dahlem, near Berlin, Germany, Fontanestrass 14, have invented certain new and useful Improvements in Radio Transmission Recording Systems (for which applications have been filed as follows: Germany, October 15, 1914, Patent 302,890; Denmark, February 18, 1920; England, July 9, 1920, Patent 148,316; France, June 17, 1920, Patent 517,401; Holland, July 27, 1920; Italy, June 21, 1920; Poland, June 30, 1920; Sweden, December 30, 1919; Canada, July 7, 1920; Argentine, July 29, 1920, Patent 17,348; Japan, November 17, 1920; Australia, July 10, 1920); and I do hereby 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.

The present invention relates to an auxiliary apparatus for checking and recording messages sent out in wireless telegraphy, and is characterized by there being provided on the sending station a special Morse writer, independent of the receiving apparatus, and actuated by local currents which are closed when the Morse key is manipulated.

The object of the present invention is to provide, in contradistinction to known devices of this kind, a special apparatus which effects automatic writing of the symbols sent out independently of the receiving apparatus. To this end a Morse writer independent of the receiver apparatus is actuated by local currents which are closed by operation of the Morse key, without its being necessary to switch in the receiving apparatus which is very sensitive to the sender oscillations. In this way the object of the invention is fully attained, namely, the signals transmitted are checked without endangering the receiving apparatus.

In the accompanying drawing is illustrated diagrammatically an embodiment of this invention.

A radio transmitting circuit including a key 1 is arranged in the usual manner. As illustrated, it comprises a power supply circuit 2 in which is the key 1. This circuit is coupled by means of a transformer 3 to the tuned circuit 4, which is connected to aerial 5 and to ground 6. A relay 7 may be connected to the power supply circuit as illustrated, so that whenever the key 1 is closed for transmission, the relay will be actuated. The secondary contacts 8 and 9 of the relay are in the circuit with a source of energy 10 and a Morse writer, which is diagrammatically represented at 11. Although a relay is not essential to the invention, it is the usual practice to so arrange it because of limitations in voltage and current.

When the key 1 is depressed and current consequently flows through the power supply circuit, the relay 7 will be actuated and will close the circuit through the Morse writer 11, causing characters to be marked on the tape 12 in the usual manner. As the relay 7 operates in exact accordance with the depressions of the key 1, a true representation of the transmitted signals will be shown on the Morse writer tape.

I claim:

1. In combination with a radio transmitting system including a key, recording apparatus at the sending station for indicating the character of the transmitted signals comprising a Morse writer the operation of which is controlled by the operation of said key.

2. In combination with a radio transmitting system including a key, a recorder for indicating the character of the transmitted signals operated by a local source of energy at the sending station controlled by the operation of said key.

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

DR. KARL ROTTGARDT.

Witnesses:

WALTER NAUWERK,
Dr. F. WALFY.