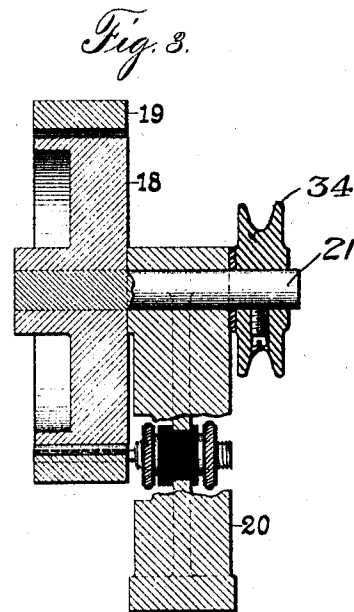
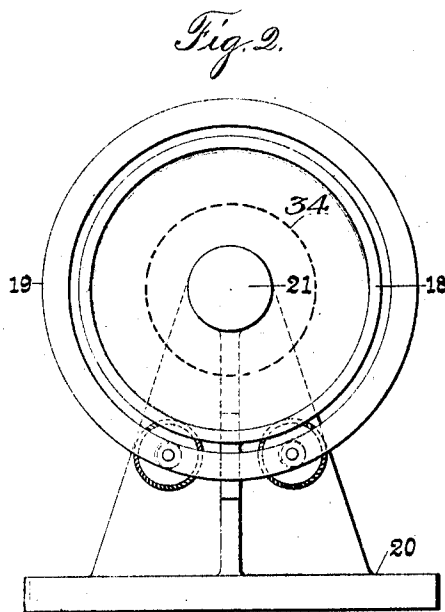
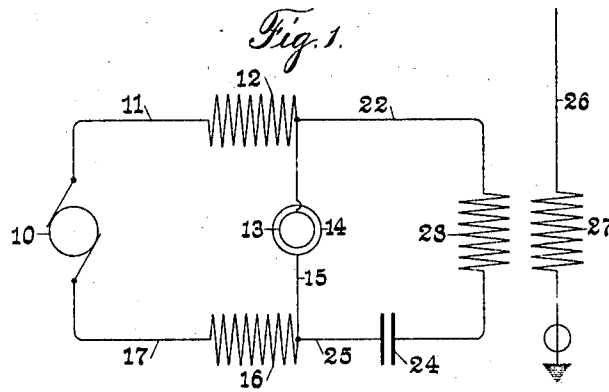


W. DUBILIER.
HIGH FREQUENCY APPARATUS.
APPLICATION FILED NOV. 21, 1910.

1,004,152.

Patented Sept. 26, 1911.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM DUBILIER, OF SEATTLE, WASHINGTON.

HIGH-FREQUENCY APPARATUS.

1,004,152.

Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed November 24, 1910. Serial No. 593,364.

To all whom it may concern:

Be it known that I, WILLIAM DUBILIER, of Seattle, in the county of King, and in the State of Washington, have invented a certain new and useful Improvement in High-Frequency Apparatus, and do hereby declare that the following is a full, clear, and exact description thereof.

The object of my invention has been to provide an apparatus for producing high frequency oscillations which shall have the advantages of transforming a high percentage of the primary current into such oscillations, and of maintaining its efficient operation with unusual reliability; and to such ends my invention consists in the apparatus for producing high frequency oscillations hereinafter specified.

In the accompanying drawings, Figure 1 is a diagrammatic view of an apparatus embodying my invention; Figs. 2 and 3 are respectively a side elevation and a central longitudinal section of electrodes used in such apparatus.

My apparatus relates to the type, in which a primary current, either alternating or direct, is transformed at a spark or arc gap into high frequency oscillations. In the accompanying drawings, the current passes from the generator 10, which may be either D C or A C, to a line wire 11, and thence

through a choke coil 12 to an electrode 13. From the said electrode it passes across the gap to an electrode 14, and thence by wire 15 through a choke coil 16 and back to the generator by a wire 17. The electrodes consist of an inner electrode 18, of circular cross-section, and an outer electrode 19, also of circular cross-section, the said electrodes being concentric, and having a space between them, across which space the current flows.

It is obvious that many changes can be made in the above described embodiment of my invention which will be within the scope of the invention, and such embodiment is to be regarded as only typical.

I claim:—

In an apparatus for producing electric oscillations, the combination of electrodes circular in cross-section, one of them being annular and the other substantially cylindrical and within the annular one, said electrodes being co-axial, and means for rotating said electrodes relatively to each other.

In testimony that I claim the foregoing I have hereunto set my hand.

WILLIAM DUBILIER.

Witnesses:

M. E. PEARSON,
N. R. TOTTEN.