



N° 8581



A.D. 1909

Date of Application, 8th Apr., 1909

(Patent of Addition to No. 17,505, 20th Aug., 1908)

Complete Specification Left, 6th Nov., 1909

Complete Specification Accepted, 6th Jan., 1910

PROVISIONAL SPECIFICATION.

"Improvements in Apparatus for Wireless Telegraphy."

We, GUGLIELMO MARCONI, LL.D., D.Sc., and MARCONI'S WIRELESS TELEGRAPH COMPANY, LIMITED, both of Watergate House, Adelphi, London, W.C., do hereby declare the nature of this invention to be as follows:—

Our Complete Specification No. 17,505 of 1908 describes a transmitter for
5 wireless telegraphy comprising a pair of discs rotated in parallel or substantially parallel planes and provided with studs on their adjacent faces.

According to this invention we arrange two discs in the same or substantially the same plane and place radial studs upon their peripheries. The discs are now rotated in the same direction in order to obtain as great as possible a
10 speed of movement between the studs as they pass one another, and the discs are also geared together in order to ensure two studs, one upon each disc, being simultaneously in the line joining their centres.

Dated this 8th day of April, 1909.

G. MARCONI.

Carpmael & Co.,
Agents for Applicants.

COMPLETE SPECIFICATION.

"Improvements in Apparatus for Wireless Telegraphy."

We, GUGLIELMO MARCONI, LL.D., D.Sc., and MARCONI'S WIRELESS TELEGRAPH
20 COMPANY, LIMITED, both of Watergate House, Adelphi, London, W.C., do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

Our Complete Specification No. 17,505 of 1908 describes a transmitter for
25 wireless telegraphy in which a generator is connected through inductances or resistances to a condenser each of the plates of which is connected to one of a pair of discs rotated in parallel or substantially parallel planes and provided with studs on their adjacent faces the primary of the jigger or transformer being inserted in the connection of one of the plates to its disc.

According to this invention we arrange the two discs in the same or substantially the same plane and place radial studs upon their peripheries. The discs are now rotated in the same direction in order to obtain as great as possible a speed of movement between the studs as they pass one another, and the discs are also geared together in order to ensure two studs, one upon each
35 disc, being simultaneously in the line joining their centres.

~~[Price 8d.]~~

PRICE 6d.

M. i.w. NSI 10811

Improvements in Apparatus for Wireless Telegraphy.

The accompanying drawing shows transmitting apparatus made in accordance with this invention,

Figure 1 being an elevation and

Figure 2 a plan.

a a are the two similar discs mounted in the same plane on insulated 5 bearings *b* and connected by brushes *c* with the plates of the condenser which are also connected through inductances or resistances to the generator. On the shafts *d* of the two discs are two equal pinions *e* gearing with an intermediate pinion *f* in such a way that two studs *g* one upon each disc cross simultaneously the line joining the centres of the discs as shown. The discs 10 may be rotated by a single motor driving the pinion *f* but we prefer to employ two similar motors *h* one driving each disc as in this case the gearing will only have to transmit half the difference between the powers of the two motors at any instant.

It will be readily understood that each time that the gap between the discs 15 is almost bridged by the simultaneous passage across the line joining their centres of two studs, a discharge takes place.

It is obvious that it is not necessary that the two discs should be exactly in one plane they may be slightly inclined to one another.

Having now particularly described and ascertained the nature of our said 20 invention and in what manner the same is to be performed, we declare that that what we claim is:—

1. A wireless telegraph transmitter of the type described and comprising two studded discs rotating in the same direction in the same or substantially 25 the same plane.
2. Wireless telegraph transmitters substantially as described with reference to the drawings.

Dated this 5th day of November, 1909.

CARPMAEL & Co.,

Agents for Applicants,

24, Southampton Buildings, London, W.C. 30

Fig. 1.

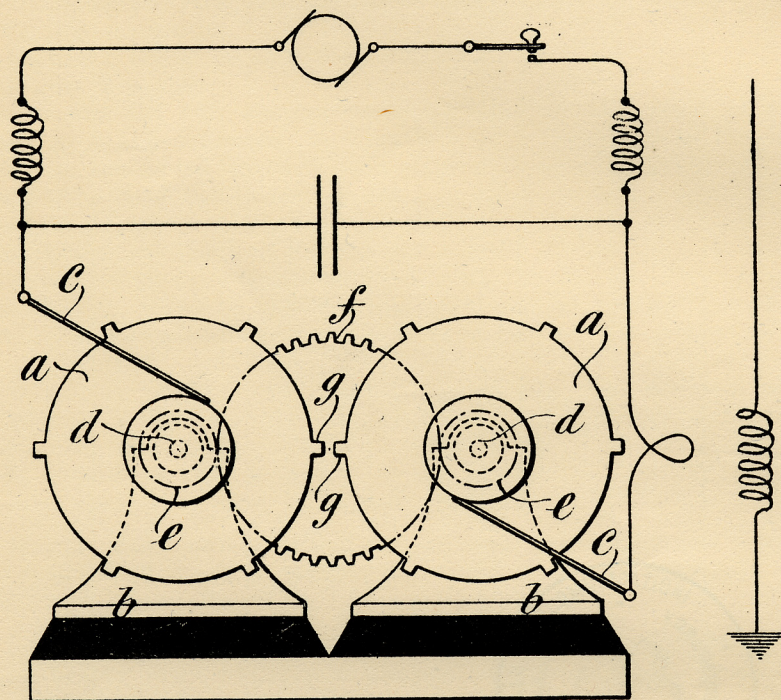
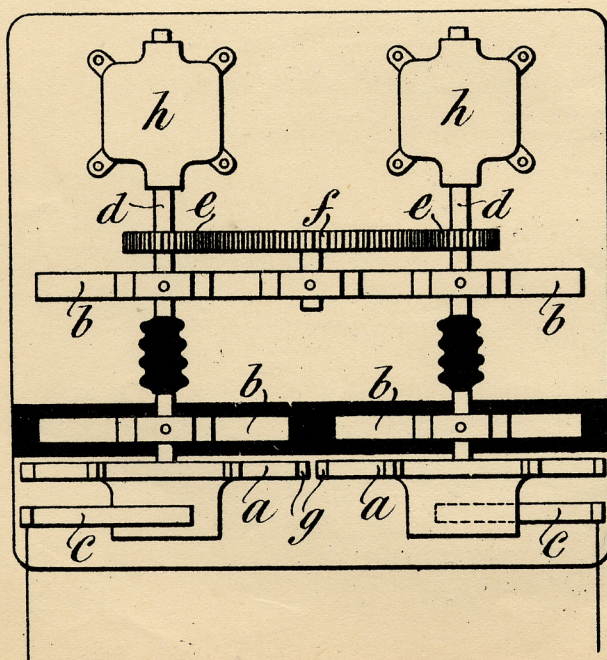


Fig. 2.



[This Drawing is a reproduction of the Original on a reduced scale.]