



N° 5,371



A.D. 1915

Date of Application, 9th April, 1915.

Complete Specification Left, 9th Oct., 1915—Accepted, 16th Dec., 1915.

PROVISIONAL SPECIFICATION.

Improvements in the Manufacture of Electrical Condensers.

We, MARCONI'S WIRELESS TELEGRAPH COMPANY, LIMITED, and CLIFFORD MITCHELL, both of Marconi House, Strand, London, W.C., Electrical Engineers, do hereby declare the nature of this invention to be as follows:—

This invention relates to improvements in the manufacture of electrical condensers of the type composed of metal plates so arranged alternately in two series that the amount by which the plates of one series overlap those of the other can be varied in order to vary the capacity.

According to our invention we make such condensers by placing plates in a mould with distance pieces between them and then running magnolia or like metal into the mould to form the support for the plates after which the distance pieces are removed. We thus obtain by a simple, cheap method a condenser in which the plates are rigidly held.

Dated the 8th day of April, 1915.

The Common Seal of the Marconi's Wireless Telegraph Company, Limited, was hereto affixed in the presence of

HENRY S. SAUNDERS, }
W. RIAL SANKEY, } *Directors.*

HENRY W. ALLEN, *Secretary.*

CLIFFORD MITCHELL.

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COMPLETE SPECIFICATION.

Improvements in the Manufacture of Electrical Condensers.

We, MARCONI'S WIRELESS TELEGRAPH COMPANY, LIMITED, and CLIFFORD MITCHELL, both of Marconi House, Strand, London, W.C., Electrical Engineers, 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:—

This invention relates to improvements in the manufacture of electrical condensers of the type composed of metal plates so arranged alternately in two series that the amount by which the plates of one series overlap those of the other can be varied in order to vary the capacity.

[Price 6d.]

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Improvements in the Manufacture of Electrical Condensers.

According to our invention we make such condensers by placing plates in a mould with distance pieces between them and then running magnolia or like metal into the mould to form the support for the plates after which the distance pieces are removed. We thus obtain by a simple cheap method a condenser in which the plates are rigidly held.

Our invention is illustrated by the accompanying drawing. Figure 1 shows the assemblage of fixed plates *a* held by supporting columns *b c d*. Each plate *a* is of the shape shown in Figure 2 with peripheral projections *a'*. These plates to the required number are placed in a mould with appropriate distance pieces, of the same shape except that they have no projections *a'*, arranged between them. A brass nut *e* is also held in the mould. Magnolia or like metal is then run into the mould to form the columns *b c d*, the mould is opened and the distance pieces removed. By inserting filling pieces into the mould the length of the columns can be varied to accommodate more or fewer plates, or to allow of a smaller or greater spacing between the plates.

Figure 3 shows the assemblage of moving plates *f*, each of the shape shown in Figure 4, held together by a half sleeve *g*. The plates to the required number are placed in a mould with distance pieces of the same shape between them. Metal is run into the mould to form the half sleeve, the mould is opened and the distance pieces removed. Holes *h* may be provided in the plates to enable the columns and sleeve the better to grip the plates.

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

The manufacture of electrical condensers by placing in a mould a number of similar plates with distance pieces between them, running magnolia or like metal into the mould to form a support or supports for the plates and removing the distance pieces after the metal has set substantially as described.

Dated the 8th day of October, 1915.

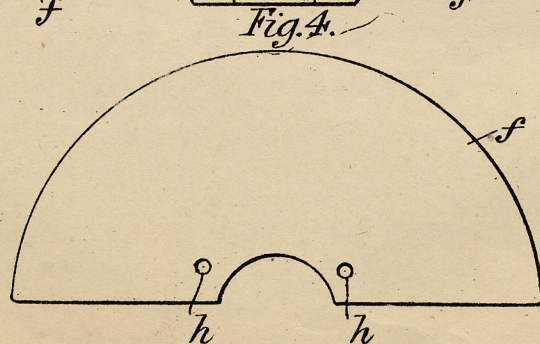
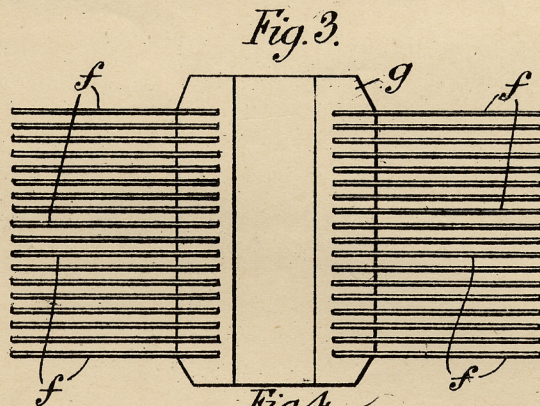
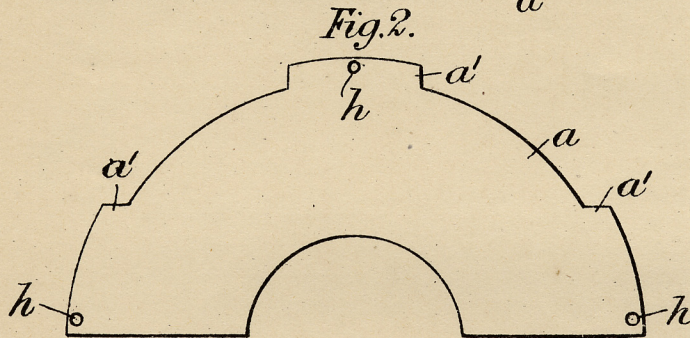
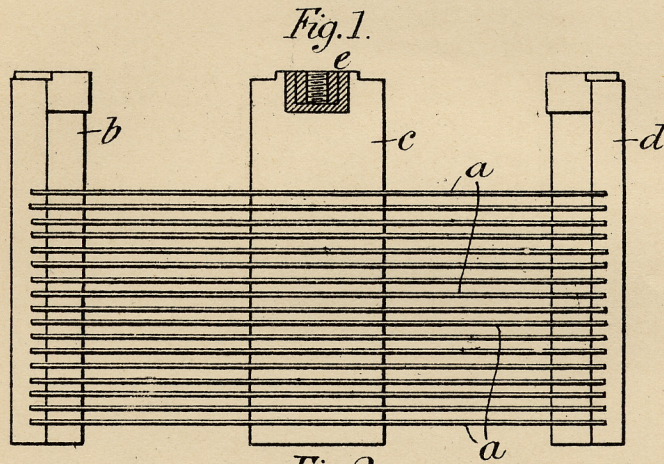
The Common Seal of Marconi's Wireless Telegraph Company, Limited, was hereto affixed in the presence of

W. RIAL SANKEY, }
ALFONSO MARCONI, } *Directors.*

HENRY W. ALLEN, *Secretary.*

CLIFFORD MITCHELL. 35

MARCONI'S WIRELESS TELEGRAPH CO. & another's COMPLETE SPECIFICATION



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