

N<sup>o</sup> 12,827



A.D. 1907



Date of Application, 3rd June, 1907—Accepted, 16th Jan., 1908

# COMPLETE SPECIFICATION.

## "Improved Means for Governing Engines."

We, MARCONI'S WIRELESS TELEGRAPH COMPANY, LIMITED, and RAYMOND DORRINGTON BANGAY, Electrical Engineers, both of 18 Finch Lane, in the City of London, 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:—

The object of this invention is to provide improved means for governing engines with an electric load.

When an internal combustion engine for instance is used to drive a dynamo for producing current for wireless telegraphy the load on the engine is changed, practically instantaneously on the depression of the key, from nothing to the maximum and again practically instantaneously from the maximum to nothing and it is therefore very desirable to have some means of governing the engine.

According to our invention this is effected by a throttle valve which is practically instantaneously opened and shut by an electro magnet energized by the current generated by means of the engine.

The drawing shows one method of carrying out this invention.

*a* is the stem of the throttle valve of a petrol engine, fast on which is a pulley round which is wrapped a cord *b* one end of which is secured to a spring *c* while the other end is fastened to an arm *d* rocking about a pivot *e* and carrying the armature *f* of an electro magnet *g* connected in series with say the primary of a transformer.

*h* are stops by means of which the movements of the arm and therefore of the throttle valve may be varied.

It will be seen that immediately the load is put on, the magnet *g* being energized will attract its armature and open the throttle practically instantaneously as far as the stops allow while immediately on the load being cut out the throttle will be closed by the spring *c*.

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:—

1. Apparatus for controlling the throttle valve of an engine by an electro magnet energized by the current generated by means of the engine and rocking a lever between adjustable stops whereby the valve is closed or opened to a definite amount immediately the electric circuit is opened or closed substantially as described.

2. Apparatus for controlling the throttle valve of an engine substantially as described with reference to the drawing.

Dated this 3rd day of June 1907.

MARCONI'S WIRELESS TELEGRAPH CO. LTD.,

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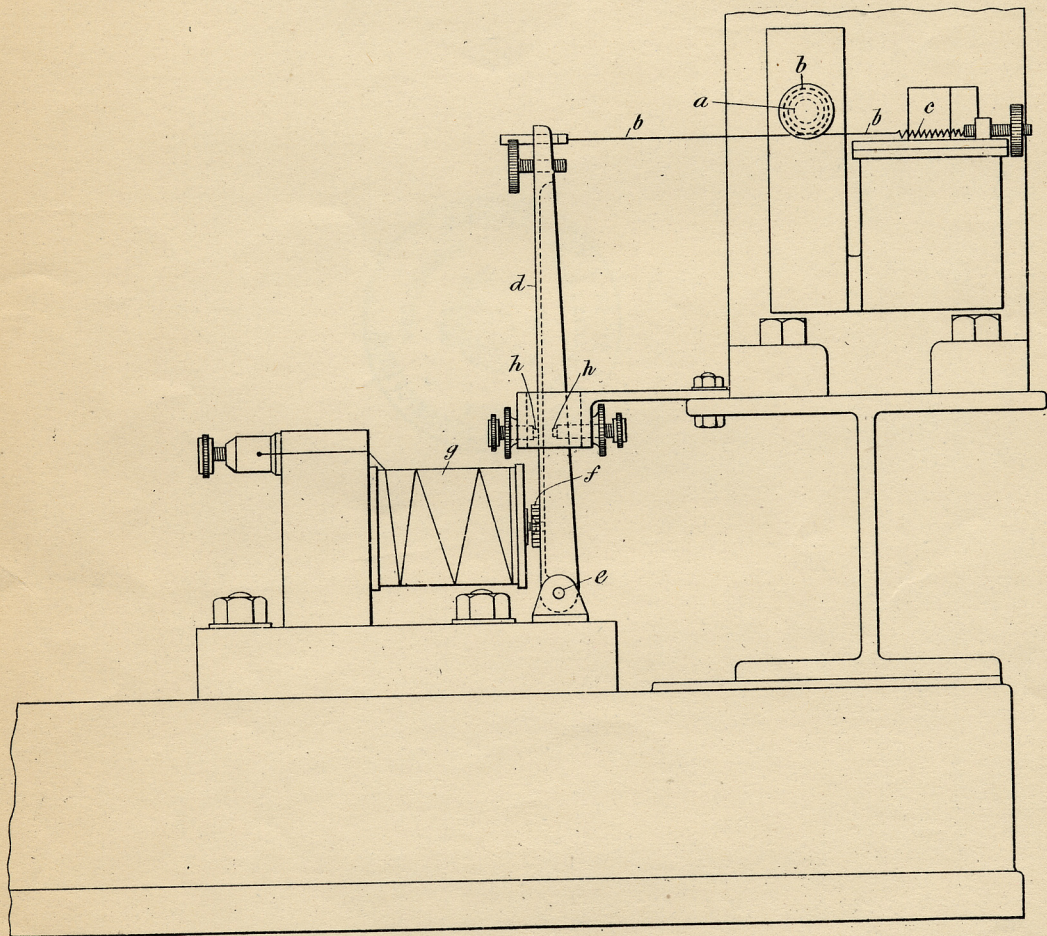
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A.D. 1907. JUNE 3. N<sup>o</sup>. 12,827.

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



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