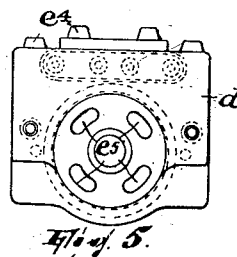
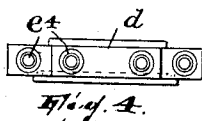
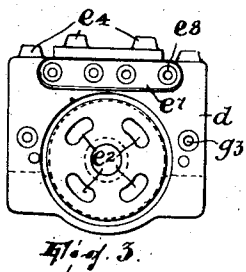
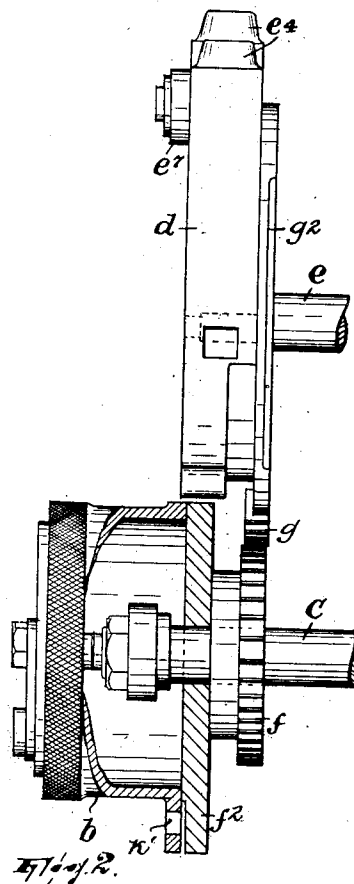
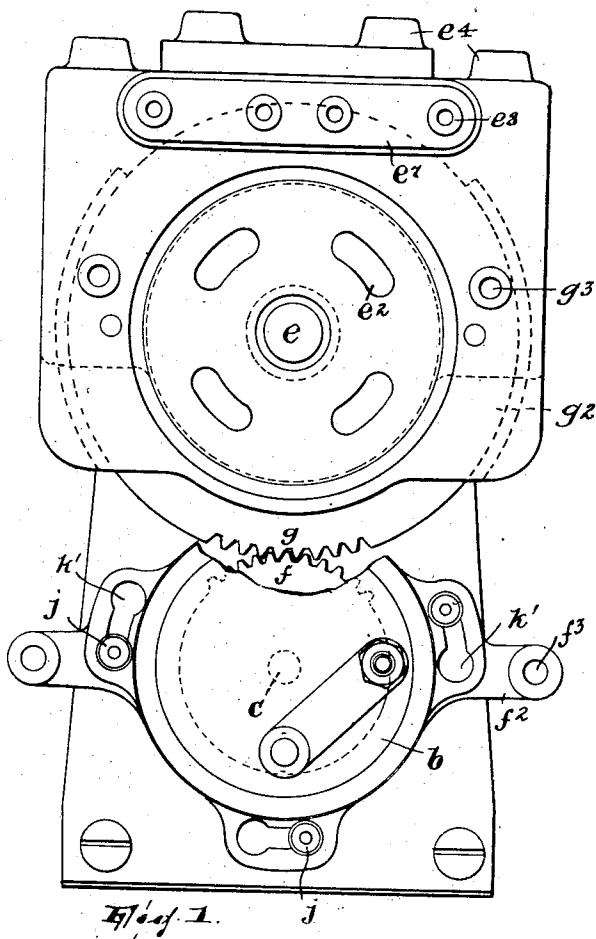


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IGNITION APPARATUS.
APPLICATION FILED DEC. 17, 1907.

953,990.

Patented Apr. 5, 1910.



WITNESSES:

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IGNITION APPARATUS.

953,990.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed December 17, 1907. Serial No. 406,873.

To all whom it may concern:

Be it known that I, ERNST EISEMANN, a citizen of the German Empire, residing at Stuttgart, in the Kingdom of Württemberg, Empire of Germany, have invented certain new and useful Improvements in Ignition Apparatus; 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.

This invention has for its object to provide a magneto ignition apparatus in which the distributing disk is arranged for convenient adjustment to produce advanced or retarded ignition and is provided with an improved arrangement of high and low tension contacts.

In the accompanying drawing, Figure 1 is a front view, partly broken away; Fig. 2 is a view partly in side elevation and partly in section; and, Figs. 3, 4 and 5 are front, top and rear views of the distributing disk.

The ignition apparatus is of well known type, c being the armature shaft and e the rotating spindle. On the shaft e is fulcrumed a lever f^2 whose extremities have the holes f^3 whereby to connect said lever to the usual means for operating it. This lever is provided with a toothed gear wheel f , disposed at the back of said lever. Against the front of the lever is arranged a cover b , of usual form, which is held to the lever by the buttons j which penetrate the key-hole slots k' in the cover. On the spindle e as an axis is movably arranged the distributing disk d . To the back of the distributing disk, by means of the studs g^3 , is secured a ring g^2 having a toothed segment g which meshes with the gear f .

c^2 denotes high-tension contacts on the front of the distributing disk, the same being connected by suitable wiring (not shown) with the binding posts e^4 for the secondary wires leading to the spark plugs in the cylinders of the engine. e^5 denotes similar low-tension contacts on the back of the distributing disk adapted to be connected by suitable wiring (not shown) with a plate e^7 having a binding post e^8 .

In the operation, the primary or low tension circuit is made and broken intermittently; the impulses thus effected are switched in rotation to the several spark plugs. In order to retard or advance the ignition, the lever f^2 is turned in the proper direction, thereby turning the distributing disk correspondingly. By this arrangement I accomplish the assembling in a unitary part of both the high and low tension contacts and at the same time provide a simple and compact mechanism whereby to adjust the timing of the ignition.

Having thus fully described my invention what I claim is:

In an ignition apparatus, the combination of a distributing disk, a part forming a support for said disk, a toothed ring carried by said disk, a toothed member meshing with said ring, another part forming a support for said member, and high-tension and low-tension contacts arranged on the opposite faces of said disk, substantially as described.

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

ERNST EISEMANN.

Witnesses:

JEAN GULDEN,
HERM. HOPPE.