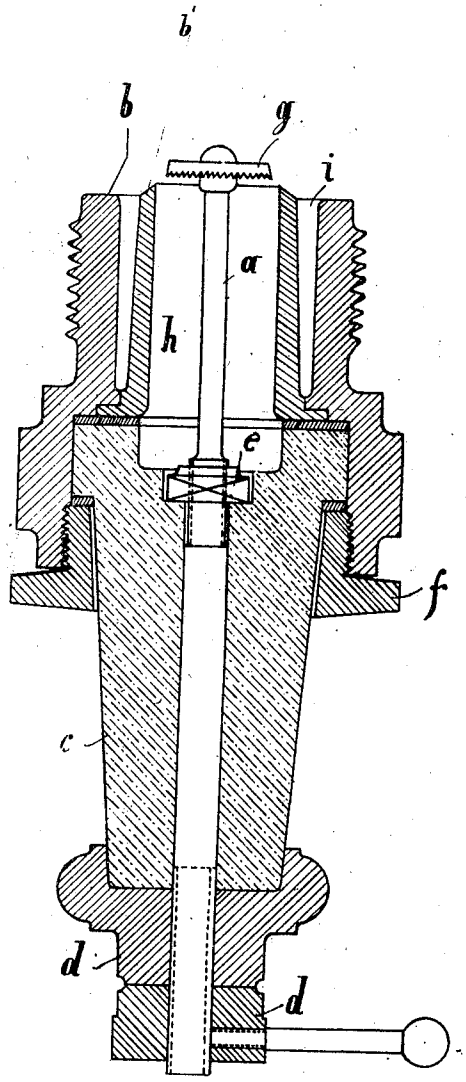
No. 853,425. PATENTED MAY 14, 1907.

W. SANDER.

ELECTRIC IGNITER FOR EXPLOSION MOTORS.

APPLICATION FILED JULY 2, 1904.



Witnesses:
James A. Hanrahan.
Maynie B. Wallace

Inventor,
Wilhelm Sander,
By F. W. Barker,
Atty

UNITED STATES PATENT OFFICE.

WILHELM SANDER, OF ZURICH, SWITZERLAND.

ELECTRIC IGNITER FOR EXPLOSION-MOTORS.

No. 853,425. Specification of Letters Patent. Patented May 14, 1907.

Application filed July 2, 1904. Serial No. 215,072.

To all whom it may concern:

Be it known that I, WILHELM SANDER, a citizen of the Republic of Switzerland, and a resident of Seefeldstrasse 17, Zurich, Switzerland, have invented certain new and useful Improvements in Electric Igniters for Explosion-Motors, of which the following is a specification.

This invention refers to an electric igniter for explosion motors, in which, to secure as nearly as possible reliable ignition, short-circuiting through carbonaceous or other deposits is avoided.

The drawing represents a longitudinal, central section of a plug embodying a practical form of my invention.

A metallic plug *b*, threaded to screw into the cylinder wall of an internal combustion engine, surrounds a concentric annular electrode *b'* which is separated from said plug by an annular space *i*, and said plug *b* supports an insulating socket *c* which is held in position by a ring nut *f*. Carried tightly by this insulating socket *c* and rendered centrally and longitudinally adjustable by nuts *d* and *e*, is an igniter pin *a*, which passes centrally through a chamber *h* within the electrode *b'*, ending in a terminal disk *g*. The concentric space or chamber *i* between the central chamber *h* and the outer wall of the plug *b* is provided for the purpose of intercepting oil from the cylinder wall, so that such oil, mingled with soot, may collect in chamber *i*, and not reach the point where ignition takes place.

The plug *b* and electrode *b'*, though shown in two parts, may be made in one piece, as is obvious.

I claim:

An electric-igniter for explosion-motors comprising a metallic plug, a concentric-annular-electrode surrounded by said plug and separated therefrom by a concentric-annular-space, a central-electrode disposed within said concentric-annular-electrode and out of contact therewith, and a terminal-disk for said central-electrode.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

WILH. SANDER.

Witnesses:

G. PFEIFFER,

W. FISCHER.