

(No Model.)

C. E. SCRIBNER.

AUTOMATIC SHUNT FOR MAGNETO GENERATORS.

No. 383,016.

Patented May 15, 1888.

Fig. 1.

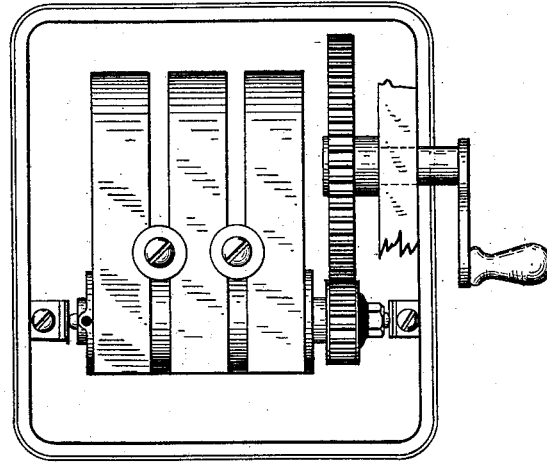
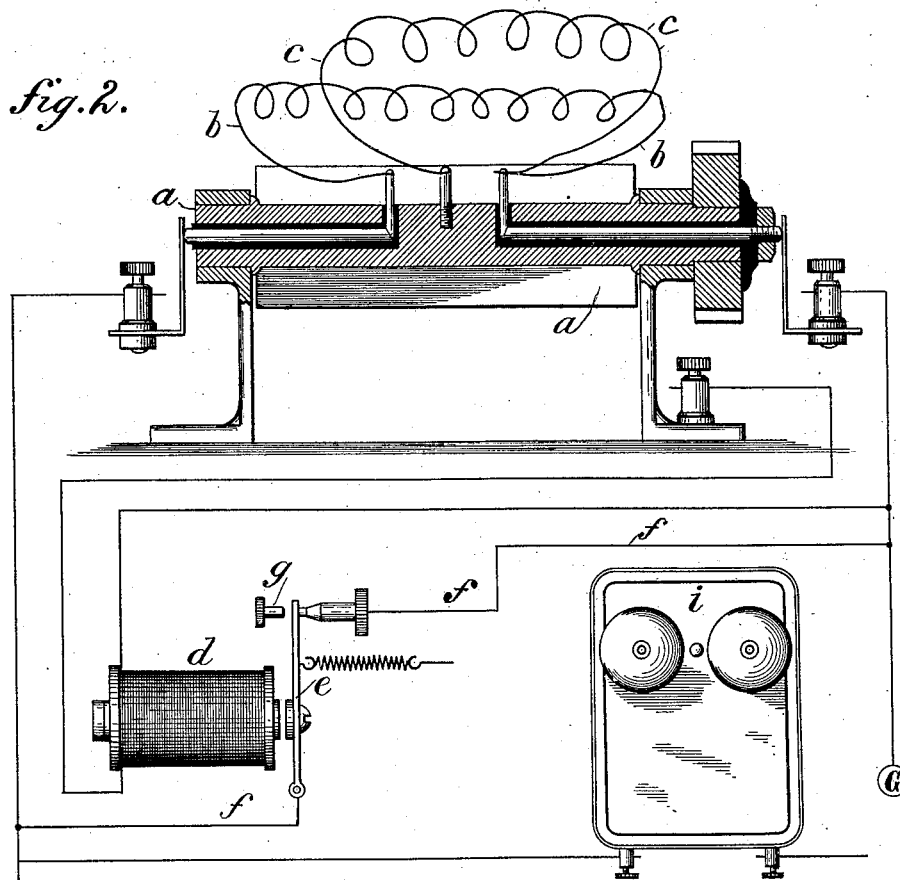


Fig. 2.



Witnesses
Saml B. Dover.
J. H. McCulloch,

Inventor.
Charles E. Scribner.
By George P. Barton,
Atty.

UNITED STATES PATENT OFFICE.

CHARLES E. SCRIBNER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE WESTERN
ELECTRIC COMPANY, OF SAME PLACE.

AUTOMATIC SHUNT FOR MAGNETO-GENERATORS.

SPECIFICATION forming part of Letters Patent No. 383,016, dated May 15, 1888.

Application filed December 3, 1885. Serial No. 184,561. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. SCRIBNER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Automatic Shunts for Magneto-Generators, (Case 99,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to dynamo or magneto electric machines, and is designed to automatically open the shunt-circuit around the machine when the armature is in motion, so that the current generated may be sent to line.

As to the state of the art prior to my invention, reference is made to Letters Patent No. 309,617, granted Elisha Gray December 23, 1884, for telephone call-boxes. In said patent means are described and claimed for automatically holding the shunt open while the armature is in motion, the shunt being automatically closed when the armature comes to rest.

In my invention herein I accomplish the same result by means of an extra coil of coarse wire about the armature connected in the circuit of an electro-magnet, which when energized serves to hold the shunt-circuit around the machine open.

In the accompanying drawings, Figure 1 is a view of a magneto-generator provided with my automatic shunting device. Fig. 2 is a diagram illustrative of the circuits.

The armature *a*, in addition to the usual coils, *b*, is provided with the extra or additional coil *c*. This coil *c* is placed in the cir-

cuit of the coils of electro-magnet *d*. The armature-lever *e* of said electro-magnet is normally included in the circuit of the shunt-wire *f*. When the electro-magnet is energized, lever *e* will be brought against stop *g*, thus opening the shunt-wire *f*. The shunt-wire *f* being thus opened, current will be sent to line to ring the bell *i* or to do any other work required.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a dynamo or magneto electric machine, of a shunt-circuit around the machine, an extra coil upon the armature, an electro-magnet included in the circuit of said extra coil, and the armature-lever of said electro-magnet included in the shunt-circuit, whereby the shunt-circuit is held open and current sent to line when the machine is in operation.

2. In a dynamo or magneto electric machine, the revolving armature provided with two coils wound thereon, one of said coils being included in the main circuit and the other coil including an electro-magnet, and a shunt-wire around the machine including the armature of said electro-magnet, said shunt-wire being closed when the armature is at rest, but open when the armature is revolved to energize the electro-magnet, substantially as described.

In witness whereof I hereunto subscribe my name this 28th day of October, A. D. 1885.

CHARLES E. SCRIBNER.

Witnesses:

GEORGE P. BARTON,
F. H. McCULLOCH.