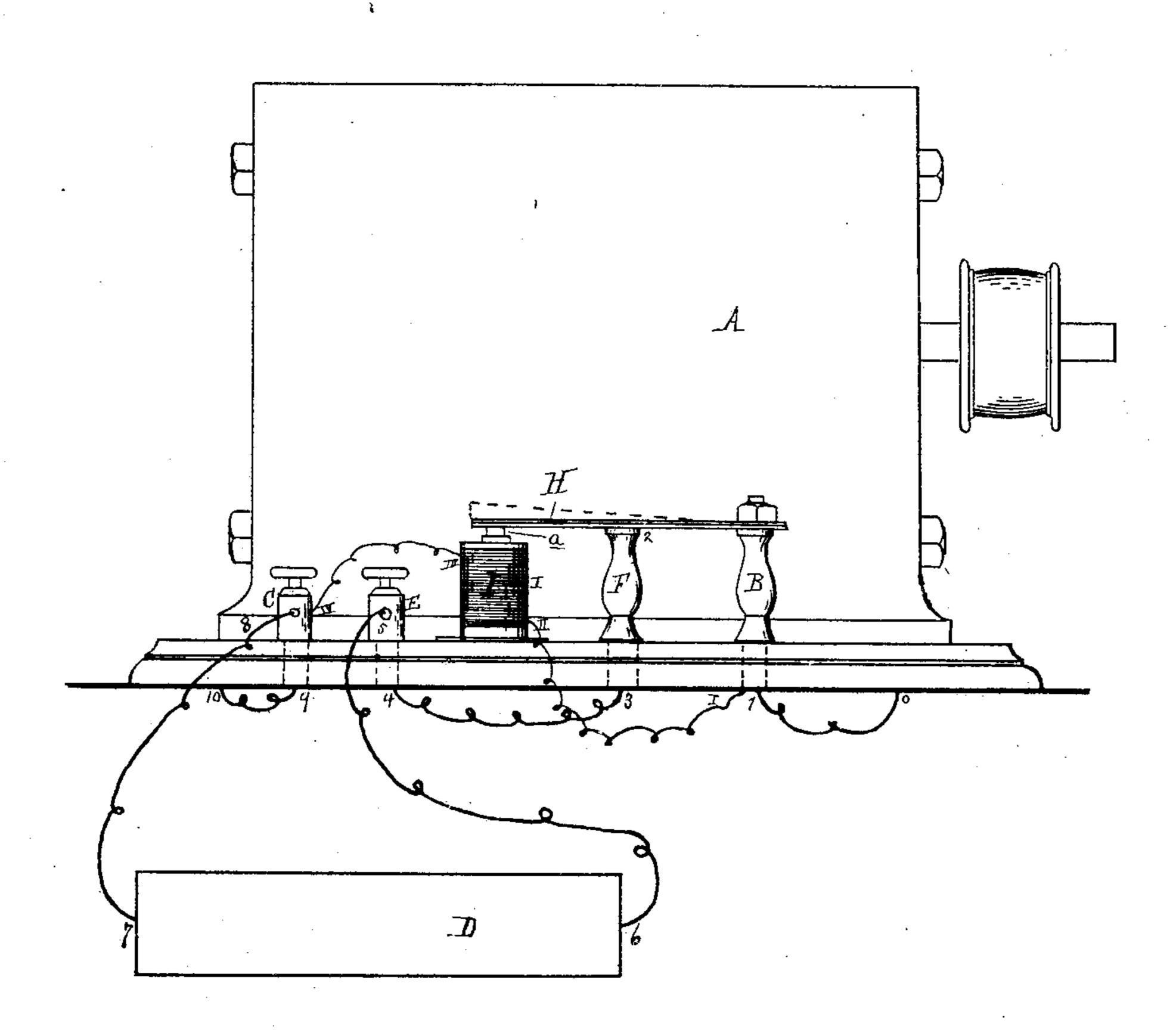
S. M. PUFFER.

ATTACHMENT TO DYNAMO ELECTROPLATING MACHINE.

No. 265,340.

Patented Oct. 3, 1882.



: Jest The

Alg Robertson

Inventor:

Samuel M. Ruffer

" Mit Soffmanne)

Atlorney.

United States Patent Office.

SAMUEL M. PUFFER, OF DETROIT, MICHIGAN.

ATTACHMENT TO DYNAMO-ELECTROPLATING MACHINES.

SPECIFICATION forming part of Letters Patent No. 265,340, dated October 3, 1882.

Application filed February 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL M. PUFFER, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Attachments to Dynamo-Electroplating Machines; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification.

The nature of this invention relates to certain new and useful improvements in the construction of devices for the prevention of short-circuiting of the electric current in dynamo-

15 electroplating machines.

The invention consists in the peculiar adaptation of an electro-magnet and spring armature-plate, and the connection of the same with the posts of a dynamo-machine, all as more fully hereinafter set forth.

In the accompanying drawing, which forms a part of this specification, A represents a dynamo-machine of any of the known constructions. The positive pole of the machine is connected to the post B by means of the wire 01, as shown, while the negative pole is connected, by means of the wire 910, to the post C. A wire, 78, connects the vat D to the pole C, while a wire, 56, connects the opposite end of the vat with the post E. From this post there runs a wire, 34, to the post F.

H represents a conducting spring-plate, secured at one end to the top of the post B and in contact with the wire 0 1. The free end of this spring-plate is provided with an armature, d, which is attracted by the electro-magnet I, the coil of such magnet being connected, by means of small wires I II, and III IV, to the posts B and C, respectively, and as is clearly shown in the drawings.

In practice, as the machine is started, a sufficient current passes through the wires I II III IV and the magnet to render the latter active and attract thereto the armature of the spring-plate, causing the latter to come in con- 45 tact with the post F, which establishes the main current from the machine to the vat through the posts and wires hereinbefore described, the spring-plate being held in this position at all times while the machine is run- 50 ning. When the machine is stopped, there being a cessation of the electrical current, the electro - magnet becomes inactive, and the spring-plate instantly flies up, breaking the connection between itself and the post F, and 55 thus avoiding all danger of there being a return-current to the machine, as would be thrown off by the highly-charged vat.

I am aware of Patents Nos. 31,545, 252,665, and 253,435, and I do not claim the devices 60 described in either patent.

What I claim is—

The combination, with the dynamo-electric machine A and the posts B C, connected to the positive and negative poles of said machine, of 65 a separate electro-magnet, I, connected, by wires I II and III IV, to the posts B C, the depositing-cell D, connected at one end, by the wires 7 8, to the post C, and at its opposite end, by suitable connections with the post F, the 70 spring-plate H, secured to the post B and provided with an armature, a, over the electromagnet I, and adapted to make and break the circuit between the posts B F, substantially as shown and described, and for the purpose 75 specified.

SAMUEL M. PUFFER.

Witnesses:

H. S. SPRAGUE, E. SCULLY.