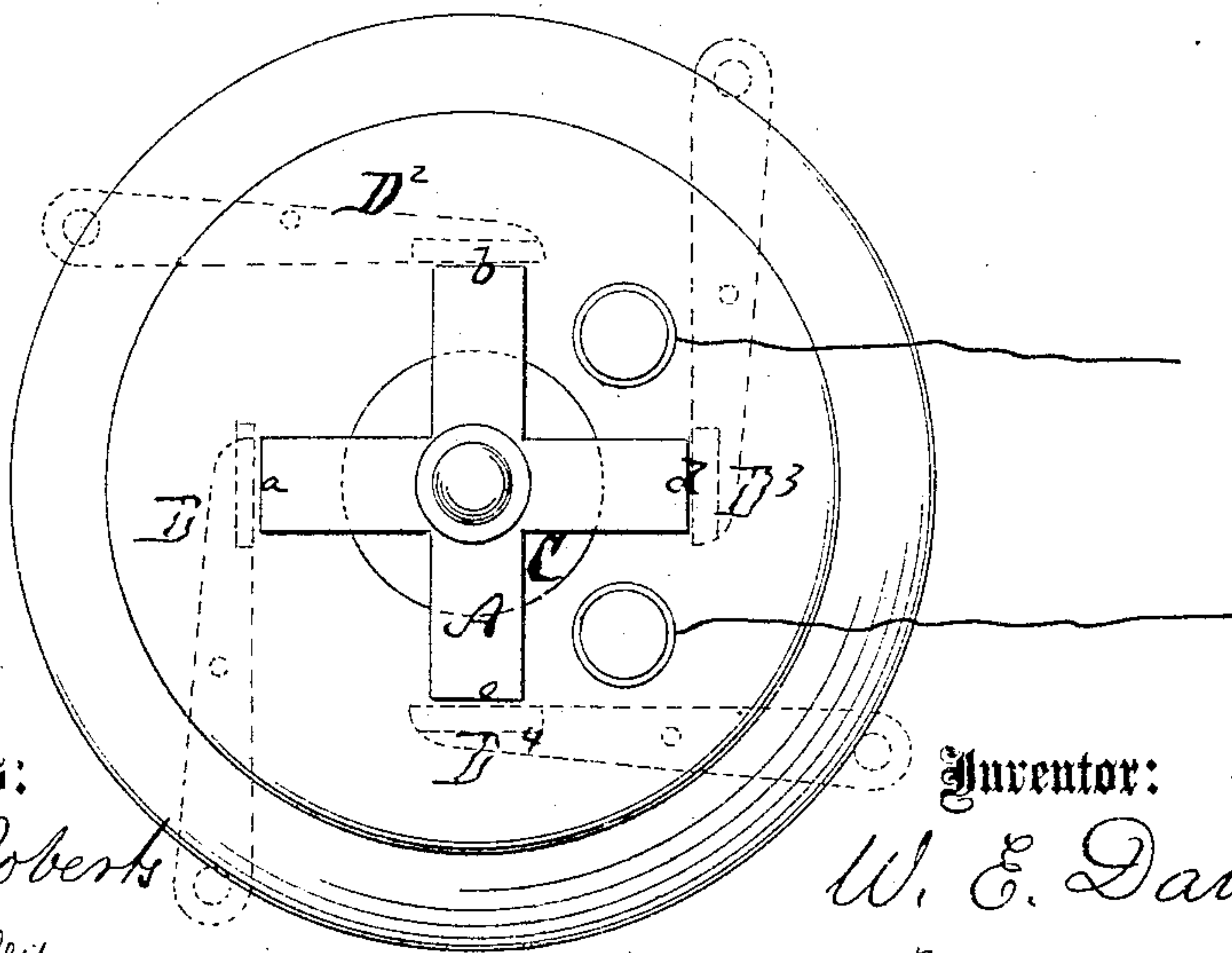
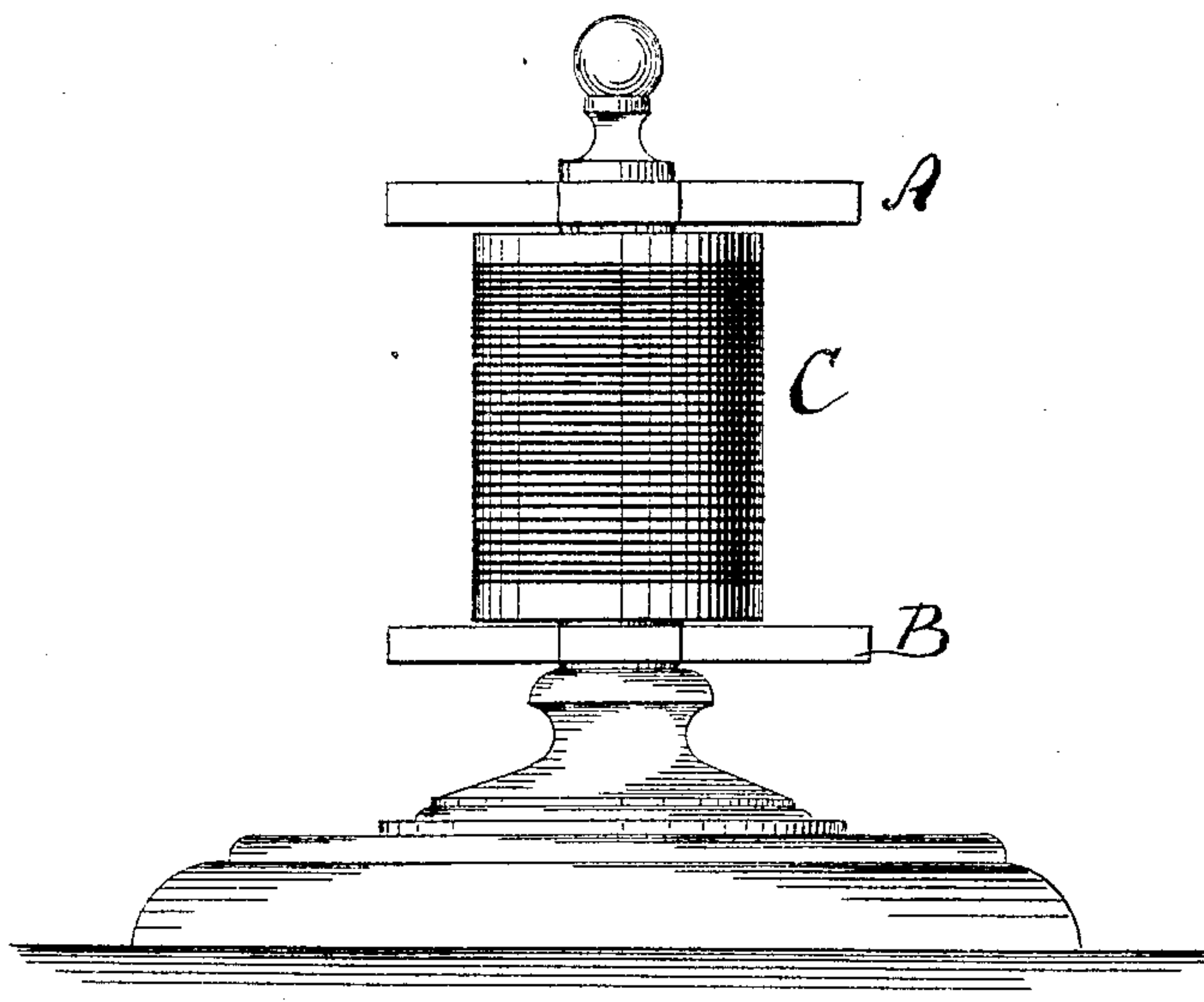


W. E. DAVIS.

Electro-Magnets for Telegraphy.

No. 133,968.

Patented Dec. 17, 1872.



Witnesses:

Alex F. Roberts
Frank Blockley

Inventor:

W. E. Davis
PER *Wm. H. L.*
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM E. DAVIS, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN ELECTRO-MAGNETS FOR TELEGRAPHY.

Specification forming part of Letters Patent No. **133,968**, dated December 17, 1872.

To all whom it may concern:

Be it known that I, WILLIAM E. DAVIS, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Telegraphic Instrument, of which the following is a specification:

Figure 1 is a side elevation, and Fig. 2 is a top view, of my improved telegraphic instrument.

Similar letters of reference indicate corresponding parts.

This invention relates to a combination of one electro-magnetic coil and its magnets with two or more armature-levers which are simultaneously affected by the currents through the coil, thus utilizing the same electro-magnet for operating a suitable number of instruments at once.

In carrying the invention into effect I shape the magnets A and B at the ends of the coil C like crosses (see Fig. 2) or otherwise to obtain the desired extent and position of contact surfaces *a b d e* for the armatures D D² D³ D⁴, &c., which are shown by dotted lines in Fig. 2. When a current is passed through

the coil C and magnetizes the plates A B the armatures will all be attracted at once, and all will be repelled or withdrawn at the same time, if the current is arrested. By this means a suitable number of messages can be sent by one operation through several diverging lines, and more power will be derived from the same electro-magnet than could be done where but one armature was acted upon by the same coil.

This invention can be used in suitable position—vertical, horizontal, or otherwise—and with a continuous or divided coil.

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

The combination of an electro-magnet with two or more armatures which are simultaneously attracted by the same plates A B, as set forth.

WILLIAM E. DAVIS.

Witnesses:

C. SEDGWICK,
T. B. MOSHER.