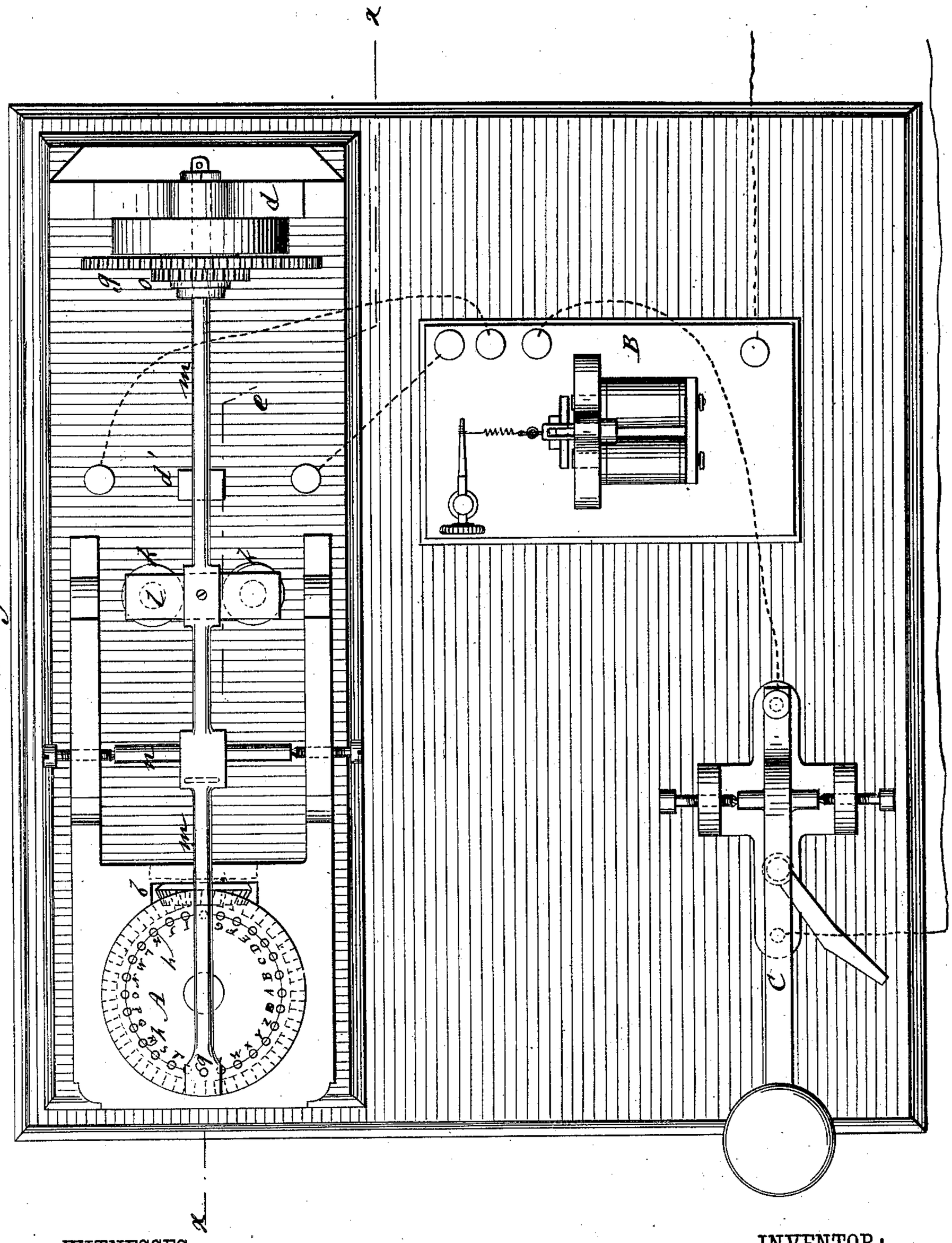
2 Sheets—Sheet 1.

J. A. HITTER, Jr.
Printing-Telegraphs.

No. 216,411. **Patented June 10, 1879.**



WITNESSES:

C. Neveux

C. Sedgwick

INVENTOR:

J. A. Hitter Jr

BY Munn & Co

ATTORNEYS.

2 Sheets—Sheet 2.

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Fig. 2

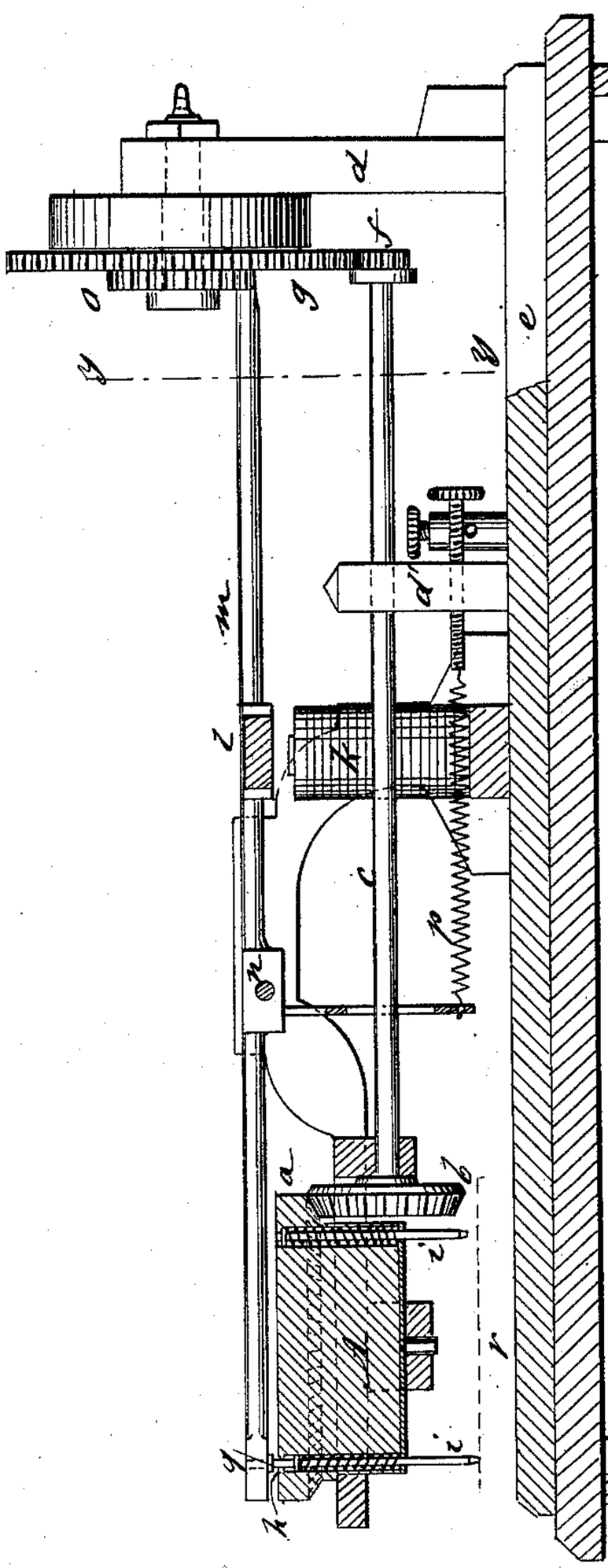
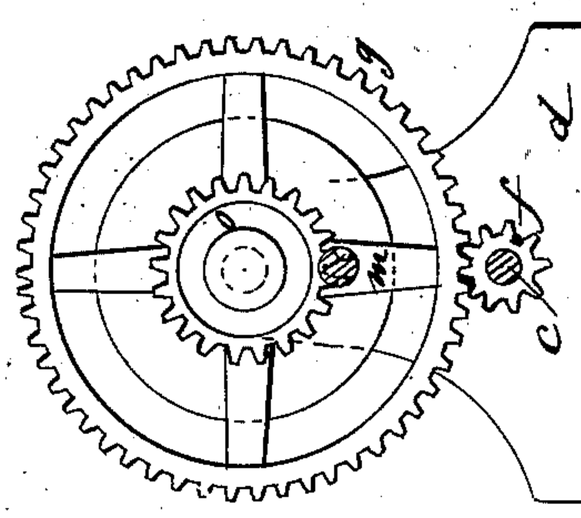


Fig. 3



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UNITED STATES PATENT OFFICE.

JEAN A. HITTER, JR., OF ST. MARTINVILLE, LOUISIANA.

IMPROVEMENT IN PRINTING-TELEGRAPHS.

Specification forming part of Letters Patent No. **216,411**, dated June 10, 1879; application filed January 15, 1879.

To all whom it may concern:

Be it known that I, JEAN A. HITTER, Jr., of St. Martinville, in the parish of St. Martin's and State of Louisiana, have invented a new and useful Improvement in Printing-Telegraphs, of which the following is a specification.

In Letters Patent granted to me November 5, 1878, No. 209,684, a type-writing machine is shown in which there is a cylindrical table containing type arranged in a circle, and a depressing-pin is used for printing the desired type by hand-pressure upon the paper below the table.

My present invention relates to the adaptation of the apparatus in said patent as an electrical printing-machine and for printing-telegraphs.

In the accompanying drawings, Figure 1 is a general plan of my apparatus. Fig. 2 is a sectional side elevation on line *x x* of Fig. 1. Fig. 3 is a cross-section on line *y y* of Fig. 2.

Similar letters of reference indicate corresponding parts.

A is a cylindrical table that is supported on a raised platform, and fitted to revolve upon a central arbor by means of an exterior cog-wheel, *a*, that meshes with a pinion, *b*, on one end of a horizontal shaft, *c*. The other end of shaft *c* is held in a standard, *d'*, that rises from the base *e* of the machine, and a pinion, *f*, on shaft *c* at this end meshes with a large gear-wheel, *g*, which is upon an arbor journaled in standard *d*, and is connected with a spring or other motor, whereby the shaft *c* and table A are revolved continuously except when stopped, as hereinafter described.

The table A is provided with a number of vertical perforations, *h*, that are arranged in a circle, the holes serving to guide a corresponding number of type, *i*, embracing all the letters of the alphabet, and in addition the numbers from 1 to 9, if desired.

The type are guided by a perforated bottom plate of the table, and provided at their upper ends with a collar or shoulder, between which and the bottom guide-plate spiral springs are interposed, that return the type into a raised position whenever they have been depressed for printing. The type project below the bottom of the table so they may be inked by ink-rollers in any desired manner.

Upon the top of table A are arranged radially to holes *h* letters or numerals corresponding to the types, for the convenience of the operator. These parts are substantially the same as in the aforesaid Letters Patent.

Upon the base *e* is fixed an electro-magnet, *k*, which is in the circuit of a local battery that is opened and closed by a relay, B, which is in the main-line circuit, that is closed by a finger-key, C.

The armature *l* of the magnet *k* is upon a lever, *m*, that is fulcrumed on a cross-bar, *n*, one end of which lever *m* extends above the table A, and the opposite end extends to the ratchet or gear wheel *o* on the arbor of the gear-wheel *g*, and when the armature is freed from the magnet *k* engages with the teeth of *o*, thereby preventing rotation of wheel *g*, and consequently stopping the table A.

The lever *m* is thrown into the last-described position by means of a spiral spring, *p*, that is connected to an arm projecting from *m* and to an adjusting-screw in standard *d'*, which spring at the same time depresses the opposite end of lever *m*, and by means of a vertical pin, *q*, upon *m* that enters the perforation *h* that is beneath it, the letter in that perforation is forced down upon the paper placed below the type.

By pressing upon the finger-key C the circuit of magnet *k* will be closed and the armature *l* drawn to the magnet, thereby releasing lever *m* from wheel *o* and permitting the table A to revolve.

When the desired letter is in position for being printed by the pin *q*, the circuit will be broken by releasing key C, and the stoppage of the table A and printing will be performed, as described.

The paper will be placed upon a suitable bed beneath table A, as shown by dotted lines at *r*, and by using a sheet of transfer-paper ink-rollers may be dispensed with, and two copies may be printed at once.

The paper-support must be movable, so as to vary its position with reference to the type. I use for this purpose the device shown in the before-mentioned Letters Patent to move the paper forward the space of one letter after every

impression, and move it transversely at the completion of a line.

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

1. The combination, with the revolving type-carrying table A, of the armature-lever *m*, pin *q*, armature *l*, and spring *p*, arranged and operating substantially as and for the purposes set forth.

2. The type-carrying table A, shaft *c*, gears *a*, *b*, *f*, and *g*, magnet *k*, armature *l*, lever *m*, and ratchet-wheel *o*, combined, arranged, and operating in connection with a spring or other motor that operates to revolve the gear-wheel *g* and an electric circuit for operating magnet *k*, substantially as and for the purposes set forth.

J. A. HITTER, JR.

Witnesses:
WM. B. EASTON,
EDWIN DELAHOUSSAYE.