

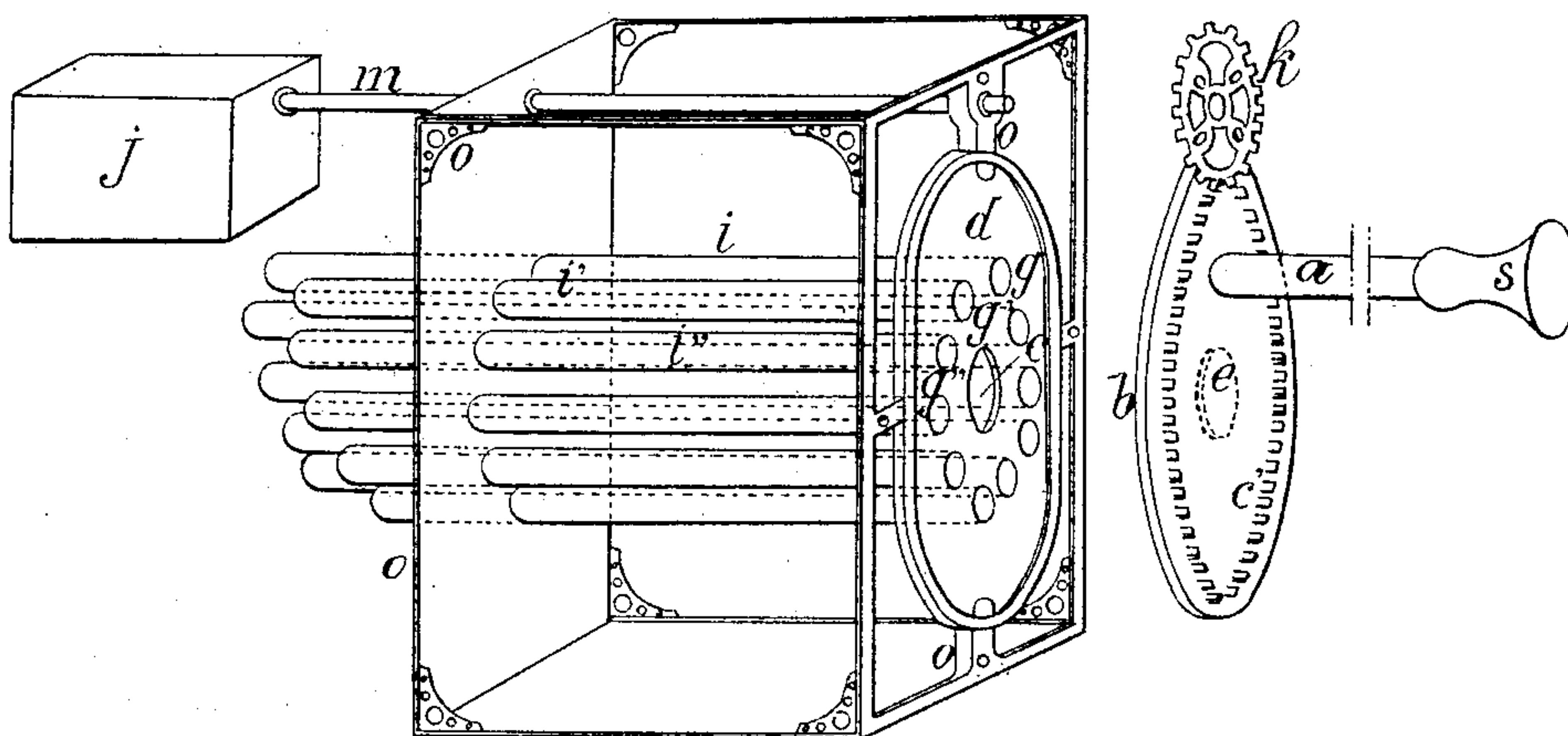
(No Model.)

P. PEREIRA Y ALBIZU.

SPEAKING TUBE.

No. 326,450.

Patented Sept. 15, 1885.



Witnesses:

W. L. Day
Charles F. Searle

Inventor:

Pedro Pereira y Albizu
by his attorney
Thomas D. Watson

UNITED STATES PATENT OFFICE.

PEDRO PEREIRA Y ALBIZU, OF MADRID, SPAIN.

SPEAKING-TUBE.

SPECIFICATION forming part of Letters Patent No. 326,450, dated September 15, 1885.

Application filed September 17, 1884. (No model.) Patented in France August 2, 1883, No. 156,841; in Belgium August 2, 1883, No. 62,201; in Italy August 2, 1883, No. 15,737; in England August 2, 1883, No. 3,785; in Germany August 3, 1883, No. 26,661, and in Portugal November 28, 1883, No. 877.

To all whom it may concern:

Be it known that I, PEDRO PEREIRA Y ALBIZU, a subject of the King of Spain, and residing at Madrid in said Kingdom, have invented certain new and useful Improvements Relating to Speaking-Tubes. (patented to me in France August 2, 1883, No. 156,841; Belgium August 2, 1883, No. 62,201; Germany August 3, 1883, No. 26,661; Italy August 2, 1883, No. 15,737; Great Britain August 2, 1883, No. 3,785, and in Portugal November 28, 1883, No. 877,) of which the following is a specification.

The invention relates to a means for rapid composition of typographical matter, whereby the matter is distributed between several compositors working simultaneously under the prompt direction of a single person, each compositor receiving only that part which he has to compose.

The means is illustrated in the accompanying drawing, in which the figure is a perspective view, one portion being at a distance from the other portion to show journals, &c.

Referring to the drawing, *a* designates an acoustic tube carrying a trumpet mouth-piece, *s*. It is supported on a revolving disk, *b*, pivoted at *e*, and having a series of teeth, *c'*, concentric with said pivot, with which teeth is meshed a pinion, *k*, carried on a shaft, *m*, operated by any suitable clock mechanism. This clock mechanism may be located within a box, as *j*, or elsewhere, and it compels the disk *b* to turn, so as to bring the tube *a* into connection with a series of acoustic tubes, *i i'*, &c. These latter tubes have flexible connections with the benches of the several compositors, and are adapted to convey the sound from the tube *a* to such compositors. The tubes *i i'*, &c., are arranged in a circle in a stationary frame, as *o*, which frame carries a disk, *d*, which corresponds with the disk or wheel *b*.

As shown in the drawing, the parts *b k* are separated from their corresponding parts, *d m*, in order to illustrate the operation. The pivot *e* of the wheel *b* corresponds with an opening, *c*, in the center of the disk *d*, and this disk has a circular series of openings, *g g'*, &c., which communicate with the series of

stationary acoustic tubes *i i'*, &c. These latter tubes are prolonged in various directions, each reaching to the ear of a different compositor at any convenient distance. This distance should not exceed fifteen yards. If the distance is much greater, the tubes may be replaced by telephones. The rotation of the wheel *b* upon its pivot *e* presents the tube *a* successively to the various tubes *i*, &c. The operator dictates constantly through the tube *a*. What he says in the first three seconds, for instance, is transmitted to one compositor through the hole *g* and tube *i*. Then a movement of the wheel *k* turns the wheel *b* sufficiently to present the tube *a* to the next opening, *g'*, and for about three seconds all that is spoken goes through the tube *i'* to another compositor, and so on. Each compositor can compose freely the words which are transmitted to him when his particular tube is in register with the tube *a* without being disturbed by any of the matter which is transmitted to the others.

What I claim as new is—

1. The tube *a*, having mouth-piece *s*, its supporting-disk having teeth, and the clock-work, shaft, and pinion to rotate said disk, combined with a series of stationary tubes, as *i i'*, &c., arranged to register successively with the tube *a* as the disk is rotated, as and for the purposes set forth.

2. The combination, with the frame *o*, having stationary tubes *i i'*, &c., arranged in a circle, with one end of each tube opening through a disk, *d*, as seen at *g g'*, of a rotating disk or wheel, *b*, having a pivot, *e*, adapted to center at *c* upon said disk *d*, and having teeth *c'*, the pinion *k*, engaging said teeth, and means for rotating it, and the tube *a*, having mouth-piece *s*, secured to the rotating disk and adapted to register successively with the stationary tubes, as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

PEDRO PEREIRA Y ALBIZU.

Witnesses:

VICENTE RODRIGUEZ,

IGNACIO FIGUEROA HERNANDEZ.