

(No Model.)

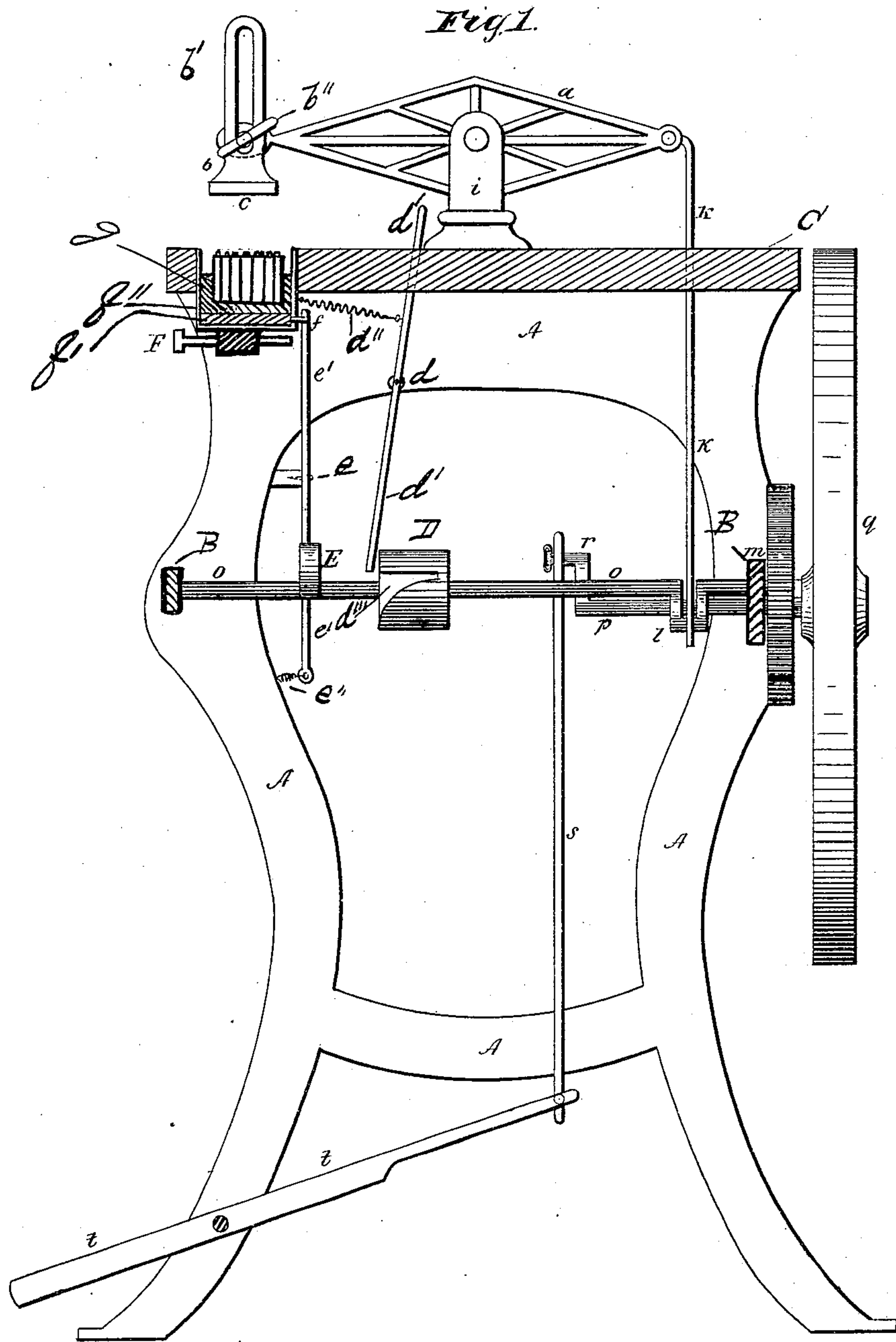
2 Sheets—Sheet 1.

W. W. W. BELKNAPP & G. H. ROBILLARD.

ADDRESSING MACHINE.

No. 258,544.

Patented May 30, 1882.



Witnesses
J. C. Quinn
W. Smith

Inventors
W. W. W. Belknap
G. H. Robillard

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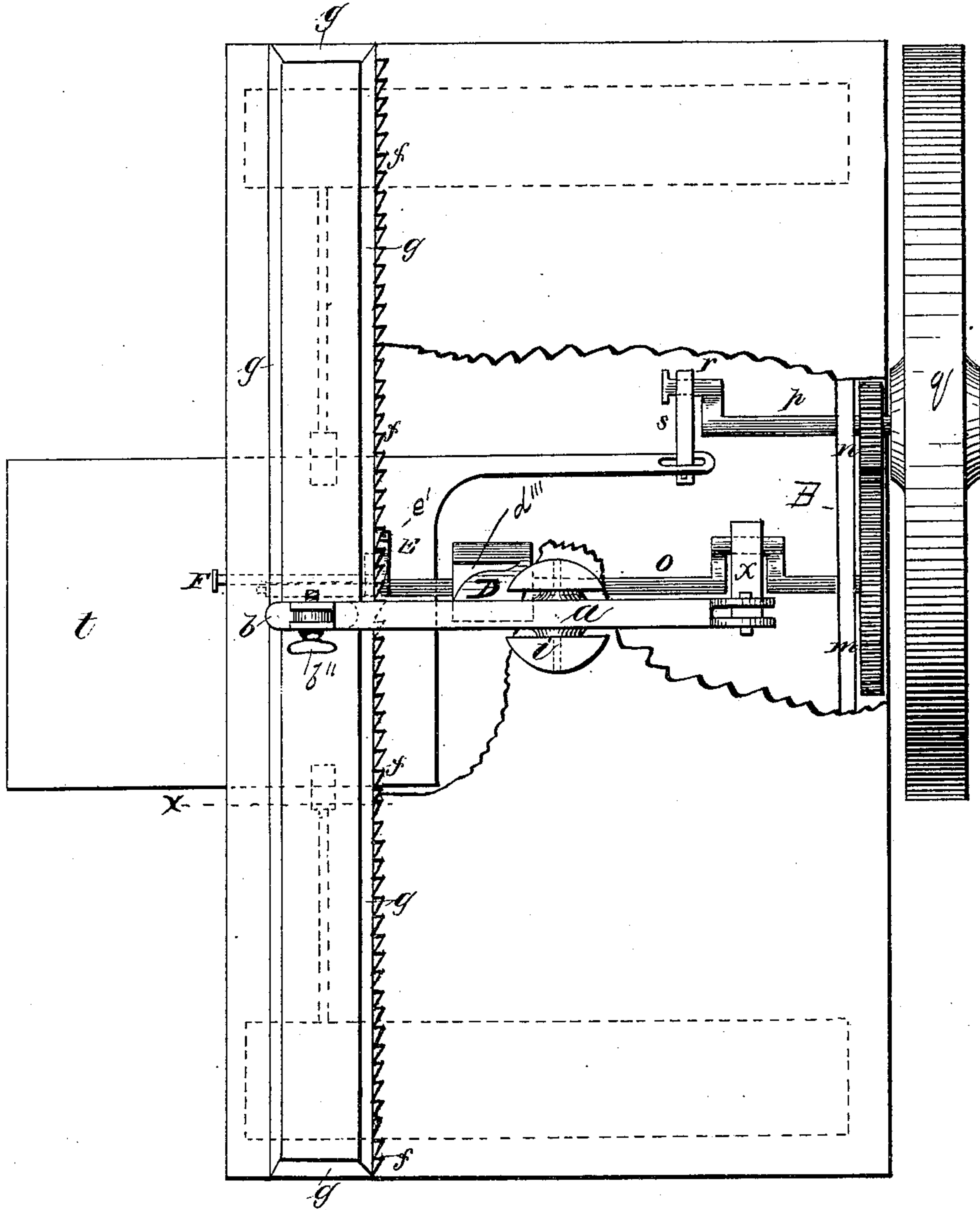
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Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLARD W. W. BELKNAPP AND GEORGE H. ROBILLARD, OF BRUSHTON,
NEW YORK.

ADDRESSING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 258,544, dated May 30, 1882.

Application filed June 15, 1881. (No model.)

To all whom it may concern:

Be it known that we, WILLARD W. W. BELKNAPP and GEORGE H. ROBILLARD, citizens of the United States, residing at Brushton, in the county of Franklin and State of New York, have invented a new and useful Addressing-Machine, of which the following is a specification.

Our invention relates to that class of addressing-machines which are adapted to be operated by a treadle and crank-shaft, or by a pulley and belt, the several individual operative elements of the machine being operated by a main shaft; and our invention consists in devices and combinations of devices hereinafter described, and specifically set forth in the claims.

Referring to the drawings, in which like letters of reference indicate like parts in both figures, Figure 1 represents a vertical section of a machine embodying our improvements, said section being on the line *x* of Fig. 2, which figure is a plan of the machine, portions of the table being removed or broken away to expose in plan the mechanism beneath.

A, B, and C represent the usual construction of a table adapted to receive and support the operative devices of the machine.

In the cross-bars B of the frame-work is journaled the main shaft *o*, provided with a crank, *l*, and gear *m*, which meshes with gear *n* on shaft *p*, which is also provided with a crank, *r*, and fly-wheel *q*. The treadle *t* is connected to crank *r* in the usual manner by rod *s*. Shaft *o* is provided with a grooved cam, D, and an eccentric, E.

The crank *l* is by rod K connected to one end of a walking-beam, *a*, pivotally supported at about its center by a standard, *i*, on the table C, and at the other end of said walking-beam is adjustably attached an impression-block, *b*, having a rubber or other pliable or elastic face, *c*. The impression-block *b* is provided with a slotted standard, *b'*, to enable it to be secured in any desired position by means of the thumb-screw *b''*, passing therethrough and through the bifurcated end of the walking-beam, one of which bifurcations is screw-threaded for the reception of said thumb-screw. By this construction the inclination of the impression-

block, as well as its height above the table C, is rendered adjustable.

At and along the front side of the table C is a galley-bed, *f'*, provided at its rear side with a ratchet-bar, *f*, running its entire length. The galley-bed *f'* rests in a box, *f''*, secured to the table in any suitable manner, flush with its upper surface and projecting below its under surface, and having at its rear side an opening, through which the ratchet *f* projects, as clearly shown in Fig. 1. Underneath the box *f''* is suitably supported a push or stop rod, F, for a purpose hereinafter described.

Upon the frame A, at *e*, is pivotally attached a feed-lever, *e'*, the upper end of which operates against the ratchet *f*, and the lower end of which is connected to the frame by a coiled spring, *e''*. Upon the frame A, at *d*, is pivotally attached a delivery-lever, *d'*, which by spring *d''* is constantly drawn, so that its lower end bears against the cam D, while its upper end passes through a slot in the table C. Cam D consists of a roll mounted concentrically upon its shaft *o*, and having a transverse peripheral groove or path, *d'''*, of straight outline at one side and of curved outline at the opposite side, as clearly shown in both figures of the drawings.

g is a galley, which rests upon and is carried by the galley-bed *f'*. In the galley is the form from which impressions are to be taken, said form being the subscription-list set up in the usual well-known manner.

The operation of the machine is as follows: Power is applied at the treadle, (or it may be applied by means of a belt-pulley secured to shaft *p*, either beneath the table or outside of fly-wheel *q*,) and shaft *p*, with its pinion *n*, rotates gear *m* and shaft *o*, which, through the medium of crank *l*, rod K, and walking-beam *a*, reciprocates the impression-block *b*, which is so adjusted by means of thumb-screw *b''* that at the lowest point of its movement it shall press the wrapper or wrapped paper, which is placed beneath it and over the type in the galley, sufficiently to produce an impression of the type thereon, they having been properly inked. The cams D and E on shaft *o* are so timed with relation to crank *l* that as soon as the impression-block has performed its func-

tion and has commenced its upward movement the delivery-lever d' reaches or is reached by the path d''' in cam D, and under the influence of spring d'' the lower end of the lever suddenly enters the path, and the upper end as suddenly is drawn to the front, and, striking against the wrapped paper upon the form, casts it from the machine, thus relieving the operator from this portion of the work and leaving his hands free to secure and present another wrapper or wrapped paper to be printed. In the meantime eccentric E has operated the lever e' , and it has operated in connection with the ratchet f , to feed the galley-bed, galley, and form forward, so as to present another name and address of the list for the next impression of the block b . If it is desired to repeat the impression of block b , rod F is pushed against the lever e' , and it is disengaged from the ratchet f , and although it may be operated by the eccentric E, it does not change the position of the galley-bed and form. Thus several impressions of a single name of the list may be produced.

25 Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In an addressing-machine, the combination of the main shaft o , provided with the crank l , cam D, and eccentric E, with rod K, walking-beam a , adjustable impression-block b , delivery-lever d' , spring d'' , feed-lever e' , spring e'' , and galley-bed f' , and ratchet f , substantially as shown and described. 30

2. In an addressing-machine, the combination of the main shaft o , provided with the roll D, having the peripheral groove d''' , straight upon one side and curved upon the other, as shown, with the pivoted lever d' , the lower end of which is spring-pressed against the end of roll D and into the groove d''' , and the upper end of which lever is extended through and above the table C, whereby said upper end of said lever is at each revolution of the shaft o , by the action of the spring, caused to suddenly remove the printed wrapped paper, as shown and described. 45

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