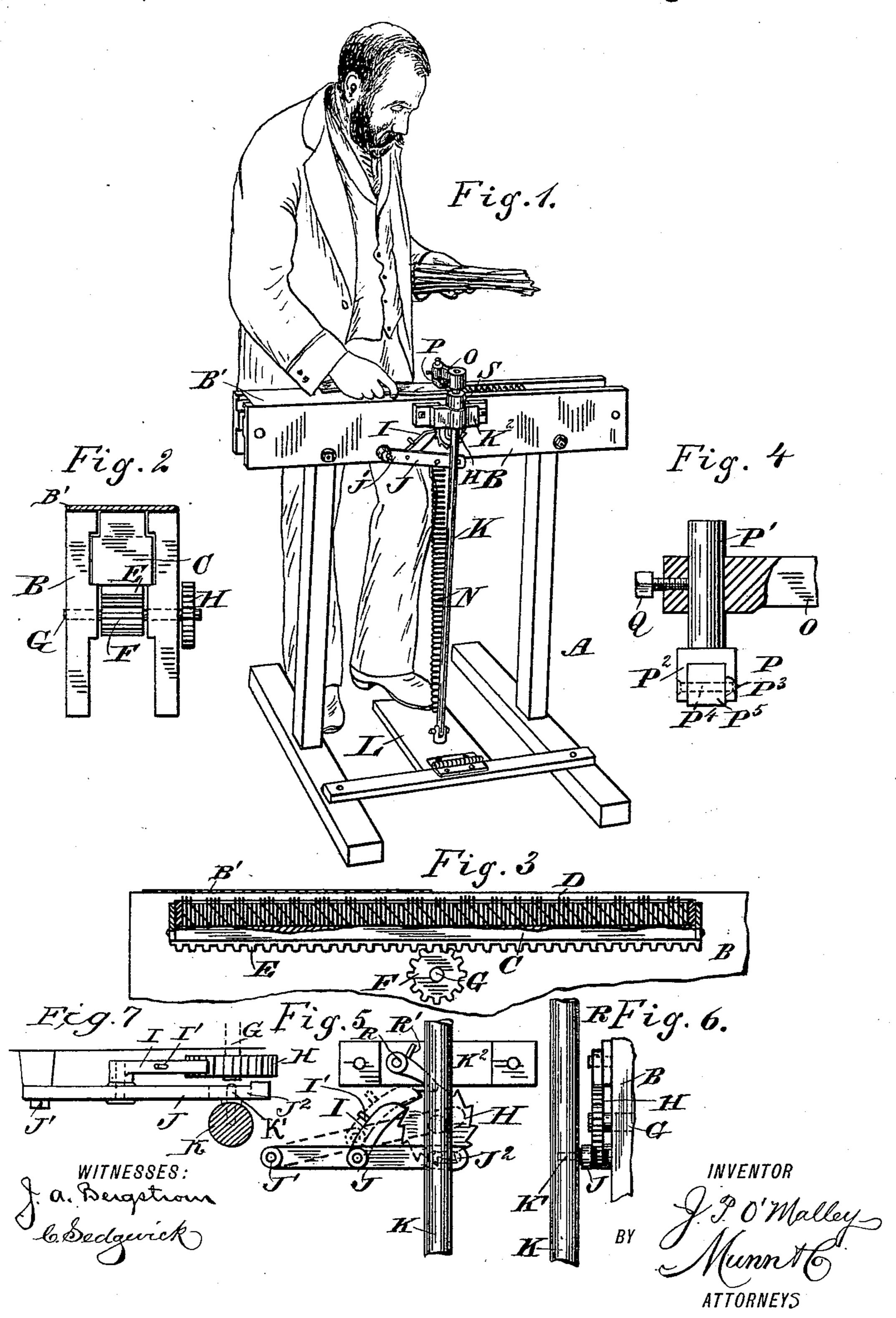
## J. P. O'MALLEY. ADDRESSING MACHINE.

No. 481,052.

Patented Aug. 16, 1892.



## United States Patent Office.

JOHN P. O'MALLEY, OF MANISTEE, MICHIGAN.

## ADDRESSING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 481,052, dated August 16, 1892.

Application filed November 7, 1891. Serial No. 411,152. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. O'MALLEY, of Manistee, in the county of Manistee and State of Michigan, have invented a new and Im-5 proved Addressing-Machine, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved addressing-machine, which is simple and durable in construction, very 10 effective in operation, and arranged to quickly and accurately print successively a series of adresses without possibility of either missing or passing a name.

The invention consists of certain parts and 15 details and combinations of the same, as will be hereinafter fully described, and then

pointed out in the claims. Reference is to be had to the accompanying drawings, forming a part of this specification, 20 in which similar letters of reference indicate

corresponding parts in all the figures.

Figure 1 is a perspective view of the improvements. Fig. 2 is an end view of the carriage and its support. Fig. 3 is a sectional 25 side elevation of the same. Fig. 4 is a side elevation of the impression-block and its support, parts being in section. Fig. 5 is a side elevation of the mechanism for imparting motion to the carriage. Fig. 6 is an end eleva-30 tion of the same, and Fig. 7 is a plan view of the same.

Theimproved addressing-machine is mounted on a suitably-constructed frame A, supporting on its upper end a guideway B, in 35 which is mounted to slide longitudinally a carriage C, adapted to support a type-galley D, containing type for printing a series of addresses. On the under side of the carriage C is formed or secured a rack E in mesh with 40 a gear-wheel F, secured on a shaft G, extending transversely and mounted to turn in suitable bearings in the guideway B.

On one outer end of the shaft G is secured a ratchet-wheel H, engaged by a pawl I, piv-45 oted on a lever J, fulcrumed at J' on one side of the guideway B. The free end of the lever J is formed with a slot J2, engaged by a pin K', projecting from a rod K, mounted to slide vertically in a suitable bearing K2, at-50 tached to one side of the guideway B. The lower end of the rod K is pivotally connected with a treadle L, hung on the frame A and I uppermost position, and when the operator

under the control of the operator's foot. A spring N is connected at one end with the said treadle L and at its other end with the guide- 55 way B, the said spring serving to return the treadle L into an uppermost position after being pressed on and released by the operator's foot. On the upper end of the rod K is secured an arm O, supporting the impression- 60 block P, preferably of the construction shown, being provided with a shank P', held vertically adjustable in the arm O and adapted to be secured in place by a set-screw Q, screwing in the said arm and against the shank P'. 65

On the lower end of the shank P' is formed a head P<sup>2</sup>, provided with a groove P<sup>3</sup>, engaged by an impression-block P5, made of rubber or other suitable elastic material, the under side of the said block projecting below the head 70 and being adapted to press the paper in contact with the type in the galley D. The block is fastened in place by pins P4, passing through the sides of the head P<sup>5</sup>. The impressionblock P moves downward toward the ad- 75 dresses set up in the galley D, the said block extending transversely close to the front edge of the cover-plate B', secured to and covering the rear part of the top of the guideway B, as is plainly shown in Figs. 1, 2, and 3.

In order to prevent an accidental return movement of the carriage C, a dog R is preferably pivoted in the bearing K<sup>3</sup> and engages the ratchet-wheel H. The dog R and the pawl I are provided on top with pins or knobs 85 R' and I', respectively, for conveniently lifting the said dog and pawl out of mesh with the ratchet-wheel H. This is necessary for quickly returning the carriage C after a galley has been used and a new one is inserted. 90

On top of the bearing K<sup>2</sup> is arranged a block S, surrounding the rod K and serving to form a stop for the downward motion of the said rod, the arm O striking against the said block, which latter thus serves to limit 95 the downward movement to prevent the impression-block from striking type in the galley in case no paper to be addressed is on the galley and the block is accidentally moved downward.

The operation is as follows: When the device is in a normal position, the treadle L is raised and the impression-block P is in an

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desires to print an address from the inked type in the galley D he places the paper at the end of the cover B', so that part of the paper projects over the type bearing the de-5 sired addresses. The operator then presses on the treadle L, so that the rod K slides downward and moves the impression-block P in a like direction and in contact with the paper, so as to press the latter firmly on the type. ro An impression is thus made. As soon as the operator releases the pressure on the treadle L the spring N forces the said treadle and the parts connected with it upward, so that the rod K, the arm O, and the impression-block slide 15 upward and the addressed paper can be removed. On the upward movement of the rod K the pin K' imparts an upward swinging motion to the lever J, which latter carries along the pawl I, so that a rotary motion is given to 20 the ratchet-wheel H, the latter moving the distance of one tooth. This movement of the ratchet-wheel H causes turning of the shaft G and gear-wheel F, and the latter, on account of meshing with the rack E, moves the 25 carriage C forward the distance between the two sets of addresses on the type-galley D, so that the next following address is now brought directly under the impression-block P at the end of the cover B'. When the rod K moves 30 into an uppermost position the top of the pawl I engages the under side of the bearing K<sup>2</sup>, so that the said pawl effectually locks the ratchet-wheel H in place, and consequently prevents the carriage C from being moved 35 too far forward. A return movement of the carriage is prevented by the pawl R engaging the said ratchet-wheel H. The abovedescribed operation is then repeated for printing the second address by the operator 40 pressing on the treadle in the manner specified. When all the addresses contained in the top of the galley D have been printed, then the carriage C is in an outermost position and is then returned by hand to the 45 other side by the operator pushing the carriage backward, the dog R and pawl I being raised, as previously described, by the operator lifting the said pawls by the knobs or pins R' and I'. A new galley is then inserted 50 and the above-described operation is repeated.

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

Patent—

1. An addressing-machine comprising a car-55 riage mounted to slide, a type-galley held on the said carriage, a rack arranged on the under side of the said carriage, an impressionblock mounted to slide toward and from the face of the said galley, a rod carrying the said 60 impression-block, a spring-pressed treadle connected with the said rod, and a gear-wheel in mesh with the said rack and operated from the said rod to impart a sliding motion to the said carriage on the upward motion of the 65 said rod, substantially as shown and described.

2. In an addressing-machine, the combination, with a carriage mounted to slide and adapted to support a type-galley and a rack held on the under side of the said carriage, of 70 a gear-wheel in mesh with the said rack, a rod mounted to slide vertically, an intermediate mechanism, substantially as described, to convect the said rod with the said gearwheel to rotate the latter on the upward 75 movement of the rod, and an impressionblock held on the upper end of the said rod and adapted to be moved toward the typegalley on the downward stroke of the rod, as set forth.

3. In an addressing-machine, the combination, with a carriage mounted to slide and adapted to support a type-galley and a rack held on the under side of the said carriage, of a gear-wheel in mesh with the said rack, a 85 rod mounted to slide vertically, an intermediate mechanism, substantially as described, to connect the said rod with the said gearwheel to rotate the latter on the upward movement of the rod, an impression-block 9c held on the upper end of the said rod and adapted to be moved toward the type-galley on the downward stroke of the rod, and a spring-pressed treadle connected with the said rod, as set forth.

4. In an addressing-machine, the combination, with a carriage mounted to slide and adapted to support a type-galley and a rack held on the under side of the said carriage, of a gear-wheel in mesh with the said rack, a 100 ratchet-wheel held on the shaft of the said gear-wheel, a pawl engaging the said ratchetwheel, a lever carrying the said pawl and having an upward and downward swinging motion, a rod having a pin engaging a slotted 105 free end of the said lever to impart a swinging motion to the same, and a spring-pressed treadle pivotally connected with the said rod, substantially as shown and described.

5. In an addressing-machine, the combina- 110 tion, with a carriage mounted to slide and adapted to support a type-galley and a rack held on the under side of the said carriage, of a gear-wheel in mesh with the said rack, a ratchet-wheel held on the shaft of the said 115 gear-wheel, a pawl engaging the said ratchetwheel, a lever carrying the said pawl and having an upward and downward swinging motion, a rod having a pin engaging a slotted free end of the said lever to impart a swing- 120 ing motion to the same, a spring-pressed treadle pivotally connected with the said rod, and a dog engaging the said ratchet-wheel to prevent a return movement, substantially as shown and described.

6. In an addressing-machine, the combination, with a carriage mounted to slide and adapted to support a type-galley and a rack held on the under side of the said carriage, of a gear-wheel in mesh with the said rack, a 130 ratchet-wheel held on the shaft of the said gear-wheel, a pawl engaging the said ratchet-

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wheel, a lever carrying the said pawl and having an upward and downward swinging motion, a rod having a pin engaging a slotted free end of the said lever to impart a swinging motion to the same, a spring-pressed treadle pivotally connected with the said rod, and an impression-block held on the upper end of the said rod and adapted to move toward and from the face of the galley supported on the carriage, substantially as shown and described.

7. In an addressing-machine, the combination, with a guideway having part of its top covered by a cover-plate, of a carriage mounted to slide longitudinally in the said guideway, a type-galley supported on the said carriage, a rack secured to the under side of the said carriage, a gear-wheel in mesh with the said rack, a rod mounted to slide vertically and connected with the said gear-wheel to impart a rotary motion to the latter on the upward movement of the said rod, a spring-pressed treadle connected with the said rod, and an impression-block held on the upper end of the said rod and adapted to move toward the said galley at the front end of the

said cover-plate, substantially as shown and described.

8. In an addressing-machine, the combination, with a guideway having part of its top 30 covered by a cover-plate, of a carriage mounted to slide longitudinally in the said guideway, a type-galley supported on the said carriage, a rack secured to the under side of the said carriage, a gear-wheel in mesh with the 35 said rack, a rod mounted to slide vertically and connected with the said gear-wheel to impart a rotary motion to the latter on the upward movement of the said rod, a springpressed treadle connected with the said rod, 40 and an impression-block held on the upper end of the said rod and adapted to move toward the said galley at the front end of the said cover-plate, and a stop-block for limiting the downward motion of the said rod and 45 impression-block, substantially as shown and described.

JOHN P. O'MALLEY.

Witnesses:
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