No. 725,328. PATENTED APR. 14, 1903.

W. P. DUN LANY & J. A. LANNERT.

MARKING MACHINE.

APPLICATION FILED APR. 28, 1902.

NO MODEL.

Fig. 1,

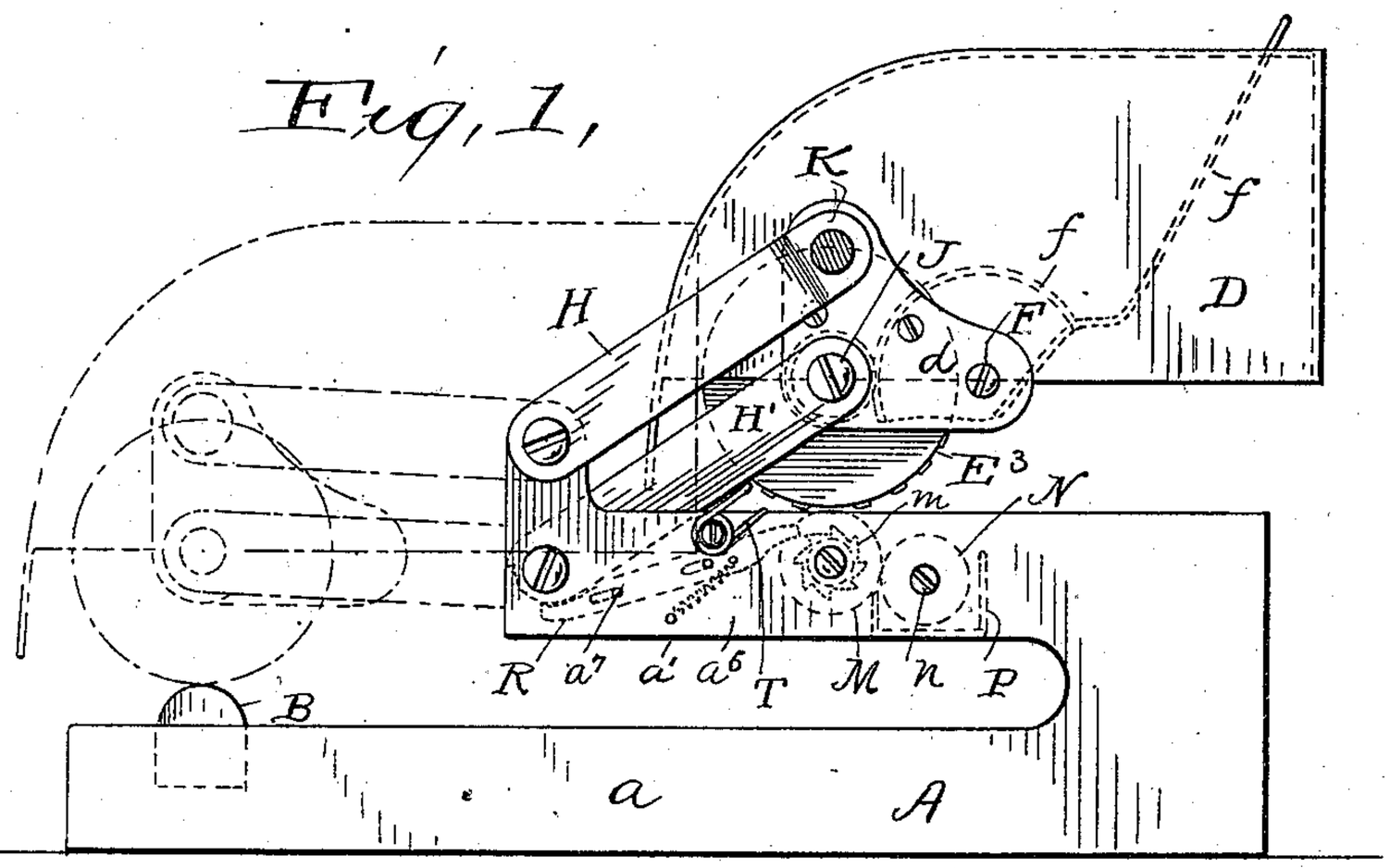


Fig. 2,

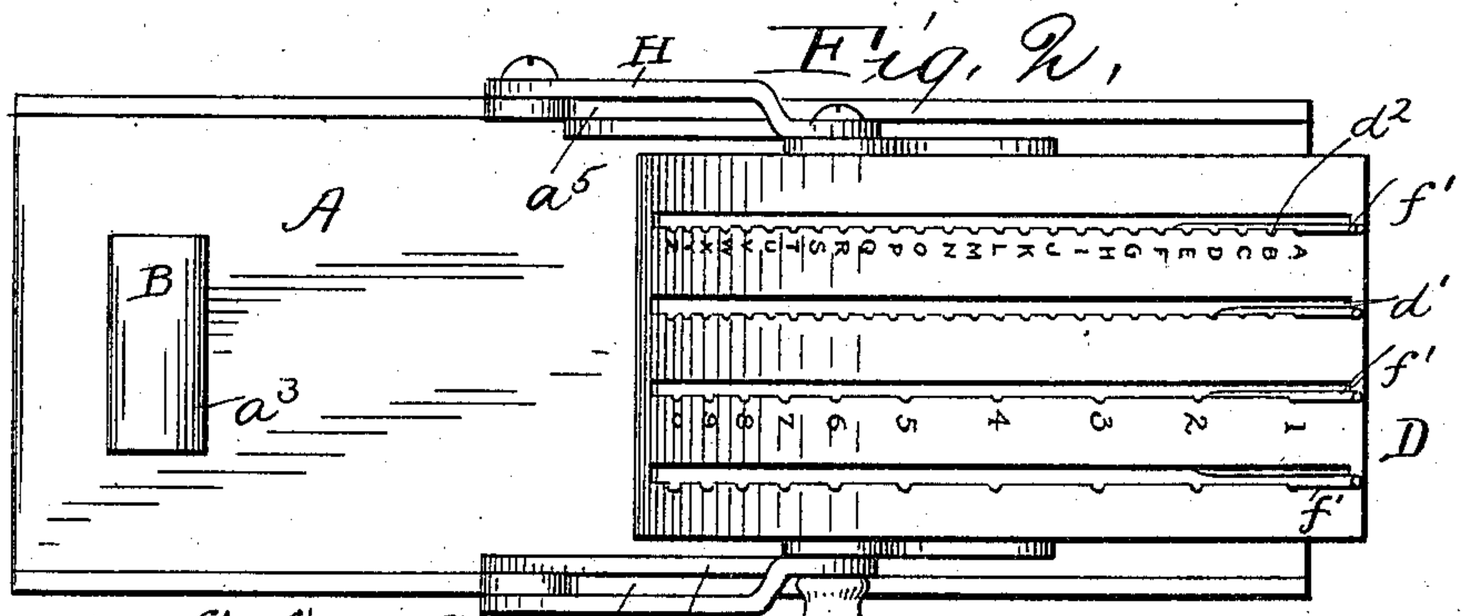


Fig. 3,

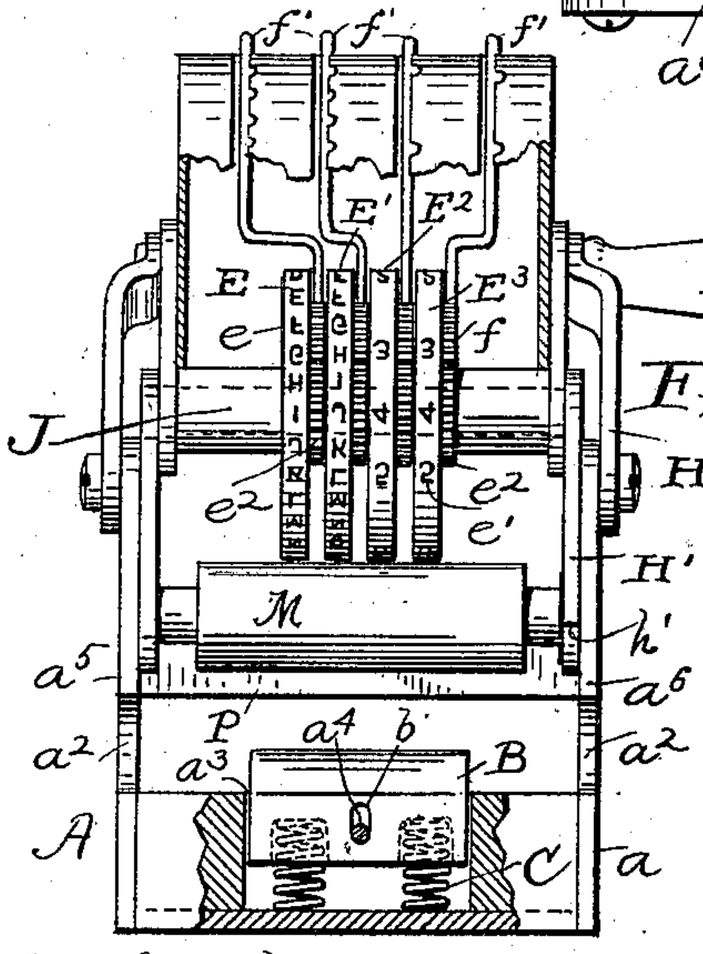
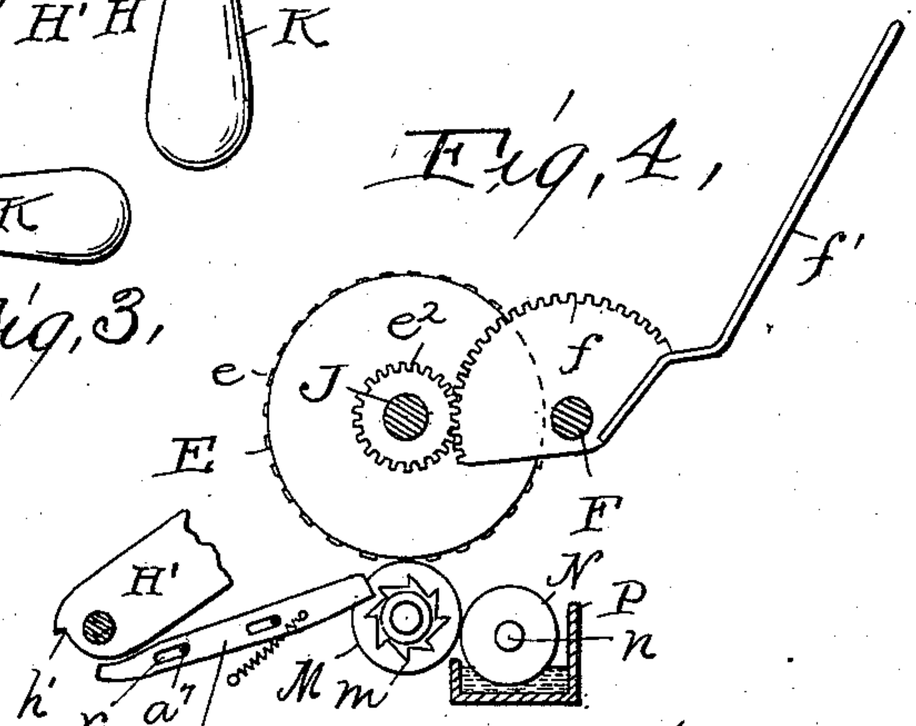


Fig. 4,



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UNITED STATES PATENT OFFICE.

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MARKING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 725,328, dated April 14, 1903.

Application filed April 28, 1902. Serial No. 105,025. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM P. DUN LANY, residing at Glenville, and JOHN ADAM LANNERT, residing at Cleveland, in the county of Cuyahoga and State of Ohio, citizens of the United States, have invented a certain new and useful Improvement in Marking-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The invention relates to a device especially adapted for use of laundrymen for rapidly and cleanly marking on the clothes intrusted to them a mark distinctive of ownership, although the utility of the invention is not confined to the particular purpose referred to.

The invention consists in the construction and combination of parts hereinafter described, and pointed out definitely in the claims.

In the drawings, Figure 1 is a side elevation of the best exemplification of the invention now known to us. Fig. 2 is a plan view of the same. Fig. 3 is a front view with a part of the base in section and a part of the carrier broken away to show the interior mechanism. Fig. 4 is a side elevation of certain mechanism, showing their relative positions in the machine.

Referring to the parts by letters, A represents the base or supporting frame, which may be of any suitable construction. As shown, it is a flat plate a, having an overhanging arm a', between which and the plate a is an opening a^2 to receive the edge of the cloth or material being marked. Near the front end of the base-plate is a recess a^3, which receives the movable platen B. This platen is held up in the preferred operative position by springs C, and its removal is prevented by a pin a^4, passing through a vertically-elongated slot b. This pin may serve as a pivot about which the platen may rock to a limited extent, but enough to accommodate itself to fabrics which may be of unequal thickness in that part thereof which rests upon the platen. The so-called "arm" a' consists, essentially, of the two forwardly-extended side bars a^5 a^6.

D represents the movable carrier, which is preferably a hollow hood made of sheet metal. A transverse shaft or cylindrical bar J extends between and is secured to the sides of this carrier, preferably by means of the metal plates d, which are secured to its sides. Rotatably mounted upon this shaft J are a plurality of wheels E E′ E^2 E^3, having on their peripheries raised type or printing characters e e'. To each one of these wheels a concentric pinion e^2 is rigidly attached. Meshing with each of these pinions is a gear-segment f, rotatably mounted on a shaft F, secured to the sides of the carrier parallel with the shaft J. To each of these gear-segments is attached an operating-arm f', which operating-arms extend out through slots d' in the curved top of the carrier. In one side of each of these slots are a plurality of lateral notches d^2, there being necessarily as many of these notches as there are characters on the associated type-wheels. For example, the two left-hand wheels contain each an entire alphabet. The two right-hand wheels contain the numbers "1" to "0," inclusive. In the slots associated with the letter-carrying wheels are therefore twenty-six of these notches, while in the slots associated with the number-carrying wheels there are ten notches. Each of these operating-arms f' is preferably made of spring wire, whose tension will serve to hold it in one of the notches. Alongside of each of these notches is a letter or figure corresponding with a character on the associated type-wheel. Now to set the type-wheels so as to bring any characters thereon to the printing-point the corresponding operating-lever f' is swung forward, and said arm is permitted to engage in that notch d^2 corresponding with the desired letter or character, which corresponding character will then be at the lowest or printing point of said wheel, and preferably there is room in each slot at both ends thereof for said operating-handle, and when said handle is at either end of the slot beyond the line of notches the corresponding printing-wheel presents a blank surface at the printing-point. The carrier D is attached to each of the side bars a^5 a^6 of the arm a' by two links H H′, one of said links being secured to the inner and one to the

outer face of said bar. The outer link near its upper end is bent into contact with the side of the carrier. The described construction permits the links to pass one another as the carrier is moved in the manner to be presently described. On one or both sides of the carrier is an operating-handle K. The type at the impression-point having been inked, one takes hold of this handle and swings the carrier forward toward and finally into the position indicated by the dotted lines in Fig. 1. When in this position, those type on the type-wheels which are at the impression-point will contact with the platen or with any fabric or other material interposed between the platen and type-wheel, which fabric will be marked thereby if the type are suitably inked. The inking of the type is effected by means of an inking-roller M, rotatably mounted in the arm a', between the side bars thereof, on an axis parallel with the shaft J, and it is in such position that when the parts are in the position as shown by the full lines in Fig. 1 those type which are at the impression-point may contact with this inking-roller. Ink is supplied to this roller by a distributing-roller N, mounted on a shaft n, which roller is in contact with the inking-roller and also projects into the ink in an ink-box P, also secured to the arm a'. On one end of the inking-roller is a ratchet m, with which a pawl R is adapted to engage. This pawl lies against the inner side of the side bar a^5, being movably held there by pins a^7, which pass through longitudinal slots r in the pawl. On the lower end of the link H' is a tooth or shoulder h', which shoulder when the carrier is moved to the printing position will have engaged with the end of the pawl and moved it rearward, and in this rearward motion this pawl will have engaged with the ratchet and turned the inking-roller a short distance to bring a new surface for engagement with the type. A spring T may be secured to one of the arms a^5 a^6, which spring may exert a strong enough pressure against the link H to prevent the carrier from being moved by its own weight, so as to cause the printing-wheels to contact with the inking-roller.

It is clear that the type-wheels may be quickly set, so as to be able to print any combination of letters and characters thereon, that the machine may be quickly operated, and that it will print clearly upon any fabric of whatever variable thickness it may be, because of the manner in which the platen B is movably supported.

Having described our invention, we claim—

1. In a marking-machine, the combination of a base carrying a platen and an inking device, with a carrier connected with the base by links, a plurality of type-wheels independently mounted in said carrier, a pinion secured to each type-wheel, an equal number of gear-segments pivoted to the carrier and engaging with said pinions, and operating-arms secured to said gear-segments, and means for latching said segments in any desired position, substantially as specified.

2. In a printing-machine, the combination of a base having a bottom plate in which is a recess, a platen movable within said recess and having an elongated vertical slot, a pin secured to the base and passing through said slot, and springs interposed between the platen and base on opposite sides of said pin, with a carrier, links connecting the same with the base, a plurality of printing-wheels mounted in said carrier and independently adjustable to bring the several characters thereon to the impression-point, and means for inking the characters at the impression-point, substantially as specified.

3. In a printing-machine, the combination of a base, a platen carried thereby, and a type-wheel carrier connected with said base by links, said carrier being hollow and having in its top plate a plurality of slots whose sides are notched, with a corresponding number of type-wheels independently rotatable in said carrier, a pinion fixed on each type-wheel, a corresponding number of gear-segments independently mounted in the carrier in mesh with said pinions, and spring-operating arms secured severally to said gear-segments and extended through the slots in the top of the carrier, substantially as specified.

4. In a printing-machine, the combination of a base carrying a platen, a type-wheel carrier, and links connecting the same with the base, with a plurality of type-wheels mounted in the carrier, means for severally moving said wheels to bring any character to the impression-point, an inking-roller rotatably mounted in the base in a position to be engaged by the type at the impression-point, a ratchet secured to the end of said roller, an operating-pawl movably mounted upon the base, and a shoulder on one of the links for moving the said pawl in one direction, and a spring for moving it in the reverse direction, substantially as specified.

5. In a printing-machine, the combination of a movable hollow type-wheel carrier having a plurality of slots through its top, a plurality of type-wheels independently mounted on said carrier, pinions severally secured to said type-wheels, gear-segments independently mounted on the type-wheel carrier and severally engaging said pinions, operating-arms secured to said segments and passing through said slots in the top of the carrier, an inking device, and a spring for normally retaining the impression-point of said type-wheels out of engagement with said inking device, substantially as described.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses.

WILLIAM P. DUN LANY.
JOHN ADAM LANNERT.

Witnesses:
E. B. GILCHRIST,
E. L. THURSTON.