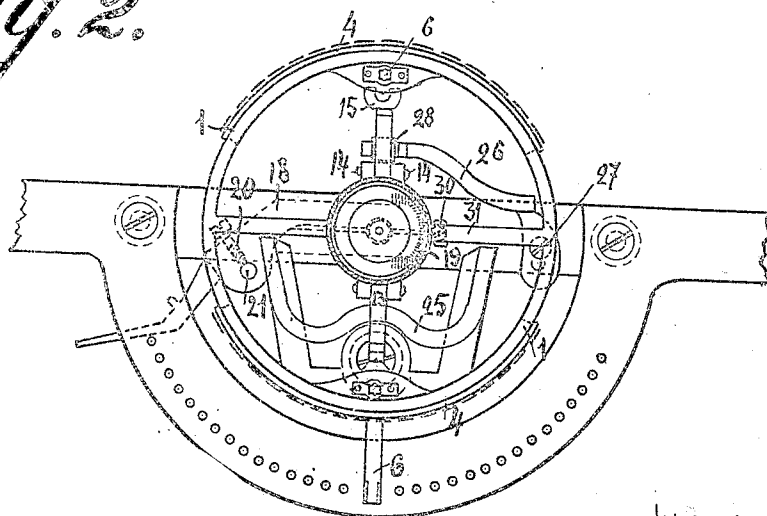
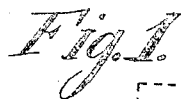


1,056,159.

2 SHEETS-SHEET 1.



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TYPE WRITING MACHINE.
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1,056,159.

Patented Mar. 18, 1913.

3 SHEETS-SHEET 2.

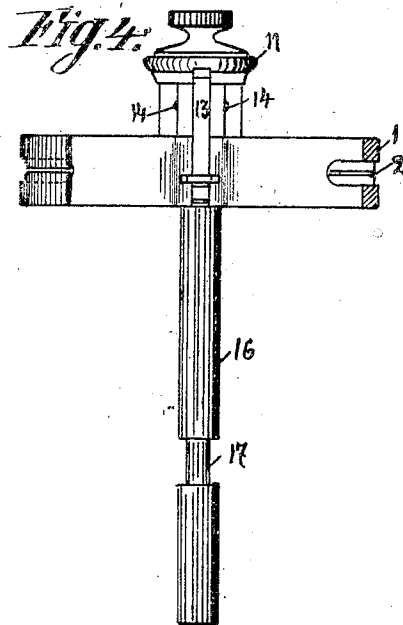
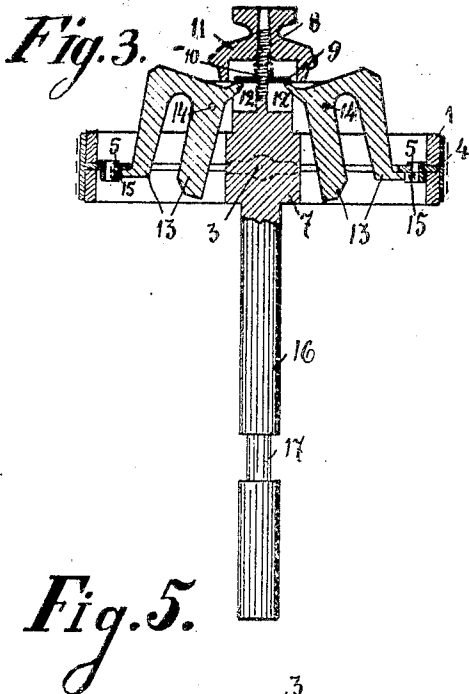


Fig. 5.

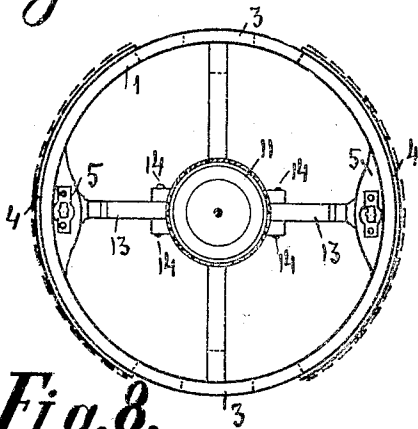


Fig. 8.

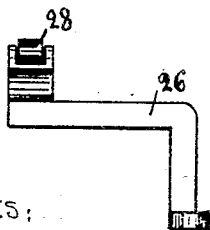


Fig. 6.

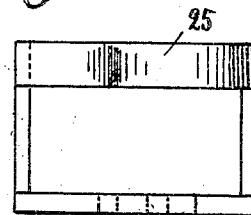
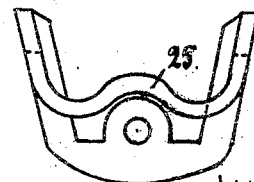


Fig. 7.



WITNESSES:

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GREGORY EMELIANTZEFF, OF ST. PETERSBURG, RUSSIA.

TYPE-WRITING MACHINE.

1,056,159.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed October 19, 1911. Serial No. 655,544.

To all whom it may concern:

Be it known that I, GREGORY EMELIANTZEFF, a subject of the Emperor of Russia, and a resident of St. Petersburg, Russia, peasant, have invented a new and useful Type-Writing Machine, of which the following is a specification.

The object of the present invention is to provide a device for the rapid changing of the type in the Hammond type-writing machine, all the manipulation of the changing of the type being in the lifting and turning of the holder, containing the type, by means of a special button, which does not necessitate the touching of the plate with the type, the soiling of the fingers being thus avoided.

As it is necessary, that in turning the holder the plate containing the type should not shift and thus interfere with the proper working of the machine, a special mechanism is provided in the proposed machine, to hold the plates in place when the holder is being raised or turned, which frees the working printing plate when the holder is lowered, this plate being coupled with the driving pin of the machine.

The construction of the proposed device for changing the type is shown in the annexed drawing, Figure 1 representing a side view; Fig. 2 is a plan of this device; Figs. 3 and 4 are separate views, partly in section, of two planes of the holder with the mechanism keeping the plates coupled with the holder on raising the latter; Fig. 5 is a plan of Fig. 3; and Figs. 6, 7 and 8 are details of the construction.

The holder 1 is provided, as usual, with ordinary slots 2 with openings 3 for inserting the two plates 4, containing different type,—Russian and Latin, for instance—the eye 5 of the plate entering the opening, which, on the inserting of the holder into the machine, is engaged by the driving pin 6 (Figs. 1 and 2) of the machine, for the purpose of moving the plate during the typing.

The hub 7 of the holder 1 is provided with a threaded extension 8, on which a washer 9 and a spiral spring 10 are placed and a nut 11 is screwed. Extensions 12 of the hooks 13 oscillating on the axles 14 enter the seats formed in the hub 7 under the washer 9. In this way, when in normal position, the spring 10 constantly holds the front ends 15 of the hooks 13 in raised position, as

shown in Fig. 3. Owing to this, the front ends 15, which are fork-shaped, engage the eyes 5 of the plates 4 from below, keeping these latter in a stationary position.

The axle 16 of the holder is provided with a neck 17, which is grasped by the forward ends of the pincers 18 constantly drawn together by the spiral spring 19, so that for inserting the axle 16 it is necessary to press together the rear ends of the pincers, and after inserting the axle to release the rear ends. The pincers are mounted on the stem 21 and fastened to same with screws 20. The stem 21 passes freely through the openings in the lower and upper cross-pieces 22 and 22 of the machine frame and is provided with a spiral spring 23, abutting, at one end, on the pincers 18 and at the other end on the upper cross-piece 22 of the machine frame.

A frame or stand 25 is fastened, by means of a screw 24, to the upper cross-piece and also a bent lever 26 is screwed on the upper cross piece by means of a screw 27. The upper end of the lever 26 is provided with a roller 28, which may enter between the lugs of one of the hooks 13 in the lowered position of the holder (Fig. 2) and thus disengages this hook from the eye 15, freeing the plate containing the type and thereby allowing the driving pin 6 to move the plate when typing. The stem 30, fastened to the cross-piece 22, serves to limit the lowering of the holder (under the influence of the spring 23) by abutting the cross-piece 31 of the holder. The projection 32 limits the lowering of the holder.

The action of the proposed device is as follows: In order to change the type it is necessary to raise the holder 1 either by hand by the aid of the nut 11 or to press with the finger on the key raising the lever 29, the end of which enters the seat provided in the lower end of the stem 16. Owing to this, the holder and all the parts, connected to it, will take up the position, shown in dotted lines in Fig. 1. At that time the driving pin 6 will come out of the eye 5, and the end of the lever 26 with the roller 28 will come out of the hook 13, owing to which fact the latter, on becoming free, will, under the influence of spring 10, grasp the eye 15 of the plate from below and thereby fasten the latter in a stationary position. After this, holding the nut 11 with the hand, the holder is turned half a revolution, it

being supported the whole time by the stand 25, on which the cross-piece 31 of the holder rests. In this way the type plate cannot shift from its place during the turning of the holder and therefore the work of the type-writing machine will not be interrupted. When the holder turns half a revolution, the cross-piece 31 will not be supported any longer by the stand 25, so that under the influence of the spring 23 the holder will descend and take up the position shown in solid lines in Fig. 1. At the same time the roller 28 will enter into the hook 13 and disengage it from the type plate, into the eye of which the driving pin will enter.

What I claim is—

1. In a device for changing the type of a typewriting machine, the combination of a vertical axle; a hub at the upper end thereof; hooks pivoted thereon and each provided with an inner extension, a forked end and downwardly slanting spaced lugs; a coiled spring mounted on the hub and pressing on said inner extensions and tending to raise said forked ends; levers fixed to the frame of the machine; a roller on each lever and engaging between said lugs of the respective hooks; means for raising said hub;

and tape plates having eyes adapted to be engaged by said forked ends.

2. In a device for changing the type of a typewriting machine, the combination of a vertical movable axle having a neck therein; a vertical stem secured to the frame of the machine; pincers vertically movable on said stem and grasping said neck; a coiled spring on said stem and pressing downwardly on said pincers; a hub at the upper end of the axle; hooks pivoted thereon and provided with an inner extension, a forked end and downwardly slanting spaced lugs; a coiled spring mounted on the hub and pressing on said inner extensions and tending to raise said forked ends; levers fixed to the frame of the machine; a roller on each lever and engaging between said lugs of the respective hooks; means for raising said hub; and tape plates having eyes adapted to be engaged by said forked ends.

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

GREGORY EMELIANTZEFF.

Witnesses:

H. A. LOVIAGUINE,
A. N. TSCHERALOFF.