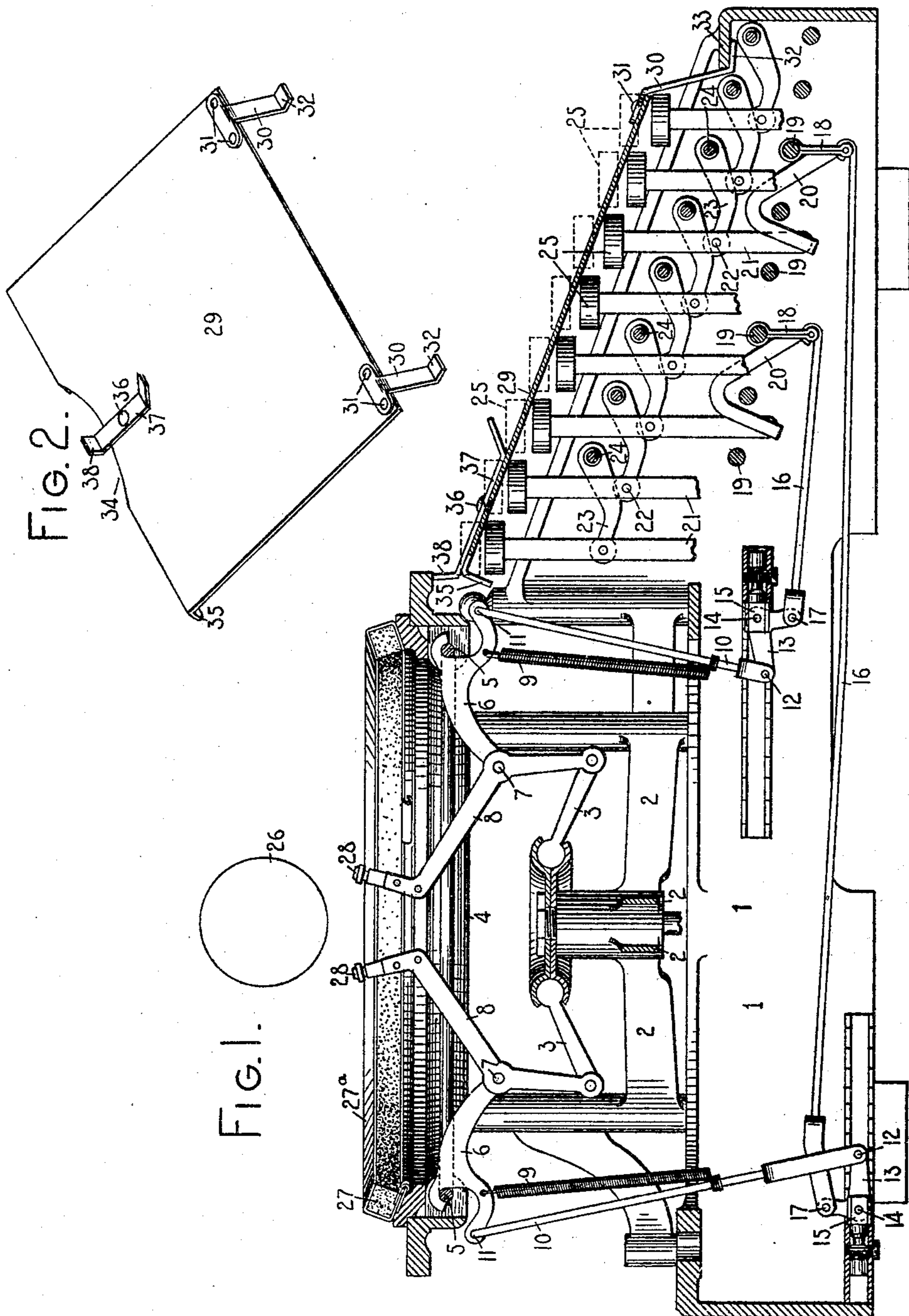


No. 795,605.

PATENTED JULY 25, 1905.

O. GÖRWITZ.
TYPE WRITING MACHINE.
APPLICATION FILED JAN. 20, 1904.



WITNESSES.

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TYPE-WRITING MACHINE.

No. 795,605.

Specification of Letters Patent.

Patented July 25, 1905.

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To all whom it may concern:

Be it known that I, OSKAR GÖRWITZ, a subject of the German Emperor, and a resident of Berlin, Germany, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

My invention relates to means for maintaining the printing instrumentalities of a type-writing machine in the abnormal positions, more particularly to facilitate the placing of the inking pad or surface in and removing the same from the machine; and the object of said invention is to provide a simple and efficient device of the character and for the purposes specified.

To the above and other ends, which will hereinafter appear, my invention consists in the various features of construction; arrangements of parts, and combinations of devices to be hereinafter described, and particularly pointed out in the appended claims.

In the accompanying drawings, wherein like reference characters indicate corresponding parts in both views, Figure 1 is a front-to-rear vertical sectional view of sufficient number of parts of one form of type-writing machines to illustrate my invention in its application thereto. Fig. 2 is a detail perspective view of the device.

I have illustrated my invention applied to a "No. 10 Yost" type-writing machine, though it should be understood that the invention may be applied to other characters of writing-machines, and to this end various modifications may be made without departing from the spirit of my invention, which, broadly considered, contemplates means for maintaining the various printing instrumentalities of a type-writing machine in the abnormal positions so that the inking pad or surface may be readily mounted in or removed from the machine without being interfered with by the printing instrumentalities.

In Fig. 1 the base 1 of the machine is surmounted by a casting 2, that constitutes a support for the links 3 of the type-bars and for the type-ring 4, in which a pivot-wire 5 is seated, said wire coöperating with the actuating-levers 6, which are each pivoted at 7 to a jointed member 8 of the type-bar. Each actuating-lever 6 is connected to one end of a contractile spring 9, that has its other end

connected to a draw-link 10, that is pivoted at one end 11 to the actuating-lever of the type-action and is pivotally connected at its lower end 12 to one arm of a bell-crank lever 13. Each bell-crank is pivoted at 14 to a hanger 15, and a draw-link 16 is pivoted at one end 17 to the other arm of the bell-crank and at its opposite end to a shutter-like lever 18, that is supported upon a pivot-rod 19 and has a rearwardly-extending curved arm 20 projecting therefrom. A key-stem 21 is pivoted to each arm 20 and is likewise pivoted at 22 to a link 23, the forward end of which turns on a pivot-rod 24, so that the key-stem moves on what is essentially parallel links. The upper end of each key-stem is provided with a finger key or head 25.

It will be understood that the usual form of carriage is provided, though only the platen 26 is diagrammatically illustrated. An inking-pad 27 is mounted within a metallic frame or casing 27^a, which is removably secured to the type-ring, and the faces of the various types 28 normally rest against the inking-pad. A depression of a finger-key is effective to move the type to the printing position through the intermediate connections between the type-bar and finger-key. The construction thus far described embodies portions of the well-known No. 10 Yost type-writing machine, and further description thereof is deemed unnecessary.

A plate 29, preferably of sufficient dimensions to cover the keyboard of the machine, is provided at one edge thereof with downwardly and forwardly extending fingers 30, which are secured to the plate by rivets 31 or otherwise. Each of the fingers 30 is provided with a bent end 32 and is adapted to take under the flange 33 of the frame of the type-writing machine, as illustrated in Fig. 1. The rear edge of the plate is cut away at 34 in order to facilitate an application of the plate to the machine, and the rear edge of the plate is likewise provided with a downwardly-extending flange 35, which extends above the upper bank of printing-keys 25. Pivoted to the plate at 36 is a latch 37, which when in the locked position has an upwardly and rearwardly extending portion or member 38, that is adapted to take under the type-ring or top plate of the machine in order to secure the plate in place.

In order to remove the inking-pad and its frame or casing from the machine to effect a substitution of one inking-pad for another or for any other purpose, it is merely necessary to place the bent ends 32 of the fingers 30 under the flange 33 on the keyboard and to press the plate 29 down, thereby moving the various printing-keys from the positions indicated in dotted lines to the positions shown in full lines in Fig. 1. The latch 37 may then be turned on its pivot to the locking position and the member 38 of the latch will engage under the type-ring and the plate with which the keys contact will be locked in position, thereby locking the finger or printing-keys in the positions to which they have been depressed. The effect of depressing the various keys in the manner described is to move the various printing instrumentalities or type-bars to the positions illustrated in Fig. 1, so that the type-faces are moved away from the printing-pad or inking-surface against which they normally rest, and they do not interfere with the ready removal of the inking-pad and its frame from the machine. After one pad has been substituted for another and the pad-frame has been secured in place the latch 37 may be moved to the releasing position and the contact-plate 29 removed, thereby affording a return of the various printing-keys to their normal positions, and the type-faces will again rest against the face of the printing-pad.

What I claim as new, and desire to secure by Letters Patent, is—

1. A device of the character described which comprises holding means that bear upon the key-heads to hold the printing-keys of a type-writing machine in depressed positions, and means for securing said holding means in place.

2. A device of the character specified which comprises a contact-plate that coöperates with the key-heads of a type-writing machine, and means by which said contact-plate may be attached to a type-writing machine to hold all of the printing-keys depressed and maintain the printing instrumentalities in abnormal positions.

3. The combination with a type-writing machine, means adapted to be connected thereto for retaining the printing-keys of the machine in the depressed positions, said means comprising a detachable plate that coöperates with and bears upon the printing-keys.

4. The combination with a type-writing machine having printing instrumentalities which normally rest on an inking-surface, of detachable means coöperating with the printing-keys for holding the printing-keys in the abnormal positions so as to hold the printing instrumentalities away from the inking-surface.

5. The combination with a type-writing

machine, of a detachable contact-plate that is adapted to bear upon the printing-keys of the machine and maintain them depressed.

6. The combination with a type-writing machine, of a contact-plate that is adapted to extend over the entire keyboard of the machine, and engaging devices that removably secure the contact-plate to the machine and maintain the said plate in position to hold the printing-keys depressed.

7. The combination with a type-writing machine, of a contact-plate that is adapted to extend over the entire keyboard of the machine, fingers that extend from said plate and coöperate with the machine to hold the plate in place, and a latch that holds the plate in position and the printing-keys depressed.

8. The combination with a type-writing machine, of a contact-plate that is adapted to extend over the keyboard of the machine, fingers that are secured to said plate and are adapted to engage the frame of the type-writing machine, and a movable latch carried by said plate and adapted to engage a fixed portion of the type-writing machine to hold the plate in place on the machine and maintain the printing-keys depressed.

9. The combination with a type-writing machine having printing instrumentalities that are normally in contact with an inking-surface, of a plate that is adapted to extend over the keyboard of the machine and to hold the printing-keys depressed and the printing instrumentalities in the abnormal position, and means for affording an attachment of said plate to and a detachment thereof from the type-writing machine.

10. The combination with a type-writing machine, of a detachable plate which is adapted to contact with all of the printing-keys and to be maintained in an inclined position and hold said printing-keys depressed.

11. The combination with a type-writing machine having printing instrumentalities that are normally in contact with an inking-surface, of a contact-plate that is adapted to extend over the keyboard of the machine and to contact with and hold all of the printing-keys depressed and the printing instrumentalities in the abnormal positions, and a pivoted latch carried by said plate and adapted to coöperate with a fixed portion of the machine for affording an attachment of said plate to and a detachment thereof from the type-writing machine.

12. The combination with a type-writing machine, of a contact-plate that is adapted to bear upon and hold the printing-keys depressed, fingers that extend downwardly and forwardly from said plate when it is in the operative position and engages the frame of the machine, and a movable latch for affording a removal of the plate from the machine.

13. The combination with a type-writing machine, of a contact-plate that is adapted

to bear upon and hold the printing-keys depressed, fingers that extend downwardly and forwardly from said plate when it is in the operative position and engages the frame of the machine, and a movable latch that is carried by the plate and is adapted to extend upwardly and rearwardly from the plate and to engage the top plate or ring of the machine, to hold the contact-plate in place and

maintain the printing-keys depressed and to afford a removal of the contact-plate from the machine.

Signed at Berlin, Germany, this 2d day of December, A. D. 1903.

OSKAR GÖRWITZ.

Witnesses:

WOLDEMAR HAUPT,
HENRY HASPER.