

No. 627,218.

Patented June 20, 1899.

W. WENDT.
TYPE WRITING MACHINE.

(Application filed Jan. 12, 1899.)

(No Model.)

Fig. 1.

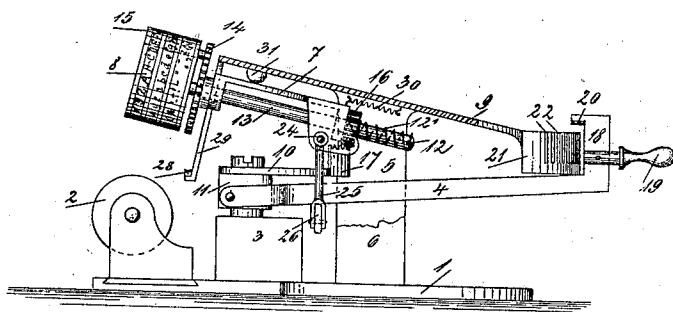
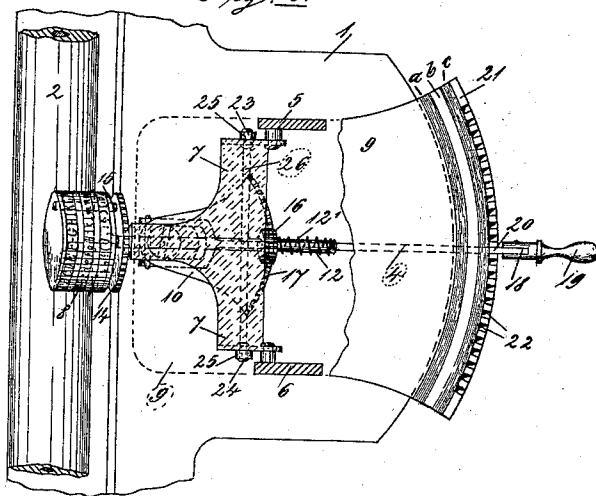


Fig. 2.



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WILHELM WENDT, OF BERLIN, GERMANY.

TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 627,218, dated June 20, 1899.

Application filed January 12, 1899. Serial No. 701,926. (No model.)

To all whom it may concern:

Be it known that I, WILHELM WENDT, a subject of the Emperor of Germany, residing at Berlin, Germany, have invented certain new and useful Improvements in or Relating to Cylinder or Wheel Type-Writing Machines, of which the following is a full, clear, and exact description.

My invention relates to that class of type-writing machines in which the types are arranged on the surface of a wheel or cylinder and selected and printed by means of a single key-lever susceptible of a horizontal and a vertical swinging movement; and the object of my invention is to provide a comparatively large stroke for the type-wheel or type-cylinder, so that the printed type is always visible to the operator in the raised or in the operative position of the type-carrier wheel or cylinder and manifolding can be performed. I attain these objects by the means represented in the accompanying drawings, in which—

Figure 1 is a side view of my invention, showing the type-cylinder in its raised or inoperative position; and Fig. 2, a top view of the same, the type-cylinder being depressed and in printing contact with the paper-carrier or platen.

Referring now to the drawings, a frame-plate 1 is provided with a guideway for the paper-carriage supporting the platen 2 and with a support 3 for the key-lever 4. Two uprights 5 6 extend from plate 1, provided with pivots for a rocking frame 7 of the type-cylinder 8 and supporting a top plate 9. A crown-wheel segment 10 is loosely mounted on a vertical stud projecting from support 3 and provided with a square hub 11, to which the forked end of the key-lever 4 is pivoted, the latter thus being susceptible of a horizontal and a vertical swinging movement.

The type-cylinder is firmly mounted on a shaft 12, which passes through a hollow shaft 13, journaled in the rocking frame 7 and carrying at one end a toothed controlling-wheel 14 with a pin 15 and at the other end a pinion 16, engaging with the toothed edge 17 of segment 10. Pin 15 extends through a bore-hole of the type-cylinder, so as to take along with the latter whenever shaft 13 performs its turning movement and allowing at the same time of a longitudinal shifting move-

ment of the type-cylinder in case the latter should be provided with a plurality of circular sections or ranges of types, as commonly and as supposed in the drawings. This shifting movement may be performed in the well-known manner by means of special shifting-keys and a lever controlled by the same and actuating shaft 12 against the pressure of a spring 12'; but as this arrangement is old and forms no part of my invention I have not represented the same in the drawings.

Key-lever 4 is provided at its free end with an arm 18, carrying a handle 19 and a plate 20. A bent blade 21 is fixed to the lower end of plate 9 and provided with vertical recesses 22, corresponding each to one of the longitudinal type-rows of the type-cylinder and marked accordingly in the well-known manner by corresponding letters or numerals registered on sections *a b c* of plate 9 opposite to the several recesses. By these means the type of the type-cylinder to be printed will be selected by horizontally adjusting key-lever 4 so as to bring blade 20 opposite the recess controlling the respective longitudinal type-row of the cylinder and by depressing the special shifting-key, which controls the corresponding circular section of types of the type-cylinder. The printing is then performed by depressing key-lever 4 to enter the opposite recess, as follows: Two rods 25 are pivotally suspended on the type-cylinder frame 7 at 23 and 24 and connected to each other by a horizontal bar 26, extending underneath key-lever 4. Therefore by depressing the latter, as heretofore described, bar 26 and rocking frame 7 will be taken along with, and the type-cylinder carried against the platen, whereby the type-cylinder is definitively adjusted by the controlling-wheel 14 engaging, as commonly, with a knife-edge 28 of an arm 29 projecting from plate 9. When releasing or raising the key-lever, the type-cylinder is restored to its normal or inoperative position, Fig. 1, by means of a spring 30, fixed to plate 9, an elastic abutment 31 serving the purpose of weakening the impact and deadening noise.

From the foregoing description it will appear that in consequence of the arrangement of the type-cylinder frame 7 and its connection with the key-lever 4 a comparatively large stroke or rocking movement of the type-

cylinder can be obtained, with the double effect to render always visible the printed type and to enforce the impact of the type-cylinder against the platen for manifolding purposes.

5 The shifting of the platen is performed by the well-known means, forming no part of my invention, and therefore not represented in the drawings.

10 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim as my invention is—

1. In a type-writing machine, the combination with a suitable frame of a rocking frame
15 carrying a type-wheel, a horizontal working bar suspended from the rocking frame, a toothed segment rotatably mounted on a stud of the frame of the machine, a pinion mounted on the type-cylinder shaft and meshing
20 with said segment, and a key-lever pivotally connected with the toothed segment and having a vertical and a rotatory movement and extending above and across the said horizontal working bar, substantially as and for the
25 purposes described.

2. In a type-writing machine, the combination with a suitable frame, of a rocking frame, a shaft having a rotatable and longitudinal movement in said frame, a type-wheel and a toothed wheel mounted on said shaft, 30 means for engaging said type-wheel with said toothed wheel, a toothed segment rotatably mounted on a stud of the machine-frame, a pinion mounted on the shaft of the type-wheel and meshing with said segment, a work- 35 ing bar horizontally suspended from the rocking frame, a key-lever pivotally connected with the toothed segment and having a vertical and a rotatory movement, and arranged above the working bar, and means for securing 40 the proper alinement of the type on the depression of the type-lever, substantially as set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WILHELM WENDT.

Witnesses:

WILHELM ABEL,
ARTHUR SCHINNLOWITZ.