

UNITED STATES PATENT OFFICE.

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PLATEN-SPACING DEVICE FOR TYPE-WRITERS.

No. 837,625.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed April 3, 1905. Serial No. 253,722.

To all whom it may concern:

Be it known that I, MAX KLACZKO, a subject of the Emperor of Russia, residing at Riga, in the Baltic Provinces, Russian Empire, have invented certain new and useful Improvements in Platen-Spacing Devices for Type-Writers, of which the following is a specification.

The present invention relates to a supplementary platen-spacing device adapted for use in connection with ordinary type-writing machines, and has for its object to enable the same machine to be used both for languages which are written from right to left—as, for instance, Hebraic—and those which are written from left to right—as, for instance, English—the construction of the said supplementary spacing device being such that it can be affixed to practically all systems of type-writing machines without any difficulty.

I will describe my invention with reference to the accompanying drawings, in which—

Figure 1 is a rear elevation of the device forming the invention. Fig. 2 is a section through the center of Fig. 1. Fig. 3 is a side elevation of the device, showing the method of its connection to a type-writer frame. Fig. 4 is a plan view of Fig. 3.

The supplementary spacing device forming the subject-matter of the present invention can be applied to any ordinary type-writing machine, the specific form of the type-writer shown in the drawings serving merely as an example.

In the form of type-writer shown the platen 1 carries a rack 2, which engages with a pinion 3, sliding on a spindle 4. The left end of the pinion 3 is provided with teeth 5, engaging with similar teeth with which a ratchet-wheel 6 is provided in such way that the pinion can turn loosely in the one direction, but in the other direction is adapted to be held by the teeth of the ratchet-wheel 6. For spacing the ratchet-wheel 6 the usual spacing-pawl 7 is used, which is operated from a spacing-key 8 by means of levers 9 and 10, which swing the shaft 11, carrying the pawl outward. In order to bring the pinion 3 out of engagement with the ratchet-wheel 6 and release the carriage 1, bars 12 and 13 are provided, rotating on pivots 14 and 15, the bottom part of bar 13 being connected with the pinion 3. When the top part of bar 12 is pushed back, the top part of bar 13 is depressed and its bottom part pushed inward with the pinion 3, compressing

a spring 16, so that the platen is free to be moved in either direction.

The auxiliary spacing device consists of a frame 17, which can be screwed onto the back of the ordinary type-writing machine 13 by means of lugs 19. The said frame 17 is provided with rails 20 and 21, on which run the wheels 22 and 23 of a carriage 24, which can be pulled in a longitudinal direction by means of a spring 25, mounted on the frame 17 and connected with the carriage 24 by means of a band 26. The carriage 24 carries a rack 27, which engages with a pinion 28, turning loosely in the one direction on a pivot 29, but being held from turning in the other direction by clutch-teeth 30 of a ratchet-wheel 31, mounted to turn loosely on the aforesaid pivot 29 and normally held from turning in one direction by a pawl 32, the pinion 28 being held in engagement with the ratchet-wheel 31 by means of a spring 47.

For spacing the carriage 24 an arm 33, carrying the aforesaid pawl 32, is pivoted on two arms 34 and 35 of the frame 17, so as to be swung to and fro in same and bring the pawl 32 in and out of engagement with the ratchet-wheel 31. The swinging of the arm 33 is effected from the spacing-key 8 by means of an arm 36, which is coupled to the bar 37 of the spacing device of the main machine and pulled inward with said arm when the spacing-key 8 is depressed.

For securing the auxiliary carriage 24 to the platen so that both may have the same movement the platen-shaft 38 of the platen is provided with an upright arm 39, fitted to turn loosely on the shaft and having a hole in its upper end. To this arm are fastened, by means of a pivot 40 or the like, two arms 40 and 41, whose outer ends are bent downward and forked to grip the bar 42 of the carriage 24 between the stops 43 and 44, so that when the auxiliary carriage is moved longitudinally the platen is moved with it. In order to disconnect the platen 8 from the spacing device of the main machine, so that the auxiliary carriage 24 can be spaced in the reverse direction, the arm 40 is provided with a projection 45, which on the arm 40 being depressed presses back the top part of the bar 12 and brings and holds the teeth 5 out of engagement. The auxiliary spring 25 is wound to greater tension than the ordinary spring, so that the former can draw the carriage from left to right against the tension of the latter.

When the machine is used in the ordinary way, the auxiliary device is removed and then the key 8 operates the main machine.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination with a type-writer having a carriage and controlling-escape-ment devices, of a second carriage carrying a spacing-rack and a spring, a frame on which the said carriage with its spacing-bar can be moved in an opposite direction to the tension of the main-carriage spring, lugs whereby the said frame can be attached to the type-writer frame, and means whereby the platen can be moved to and fro with the aforesaid second carriage substantially as and for the purpose described.

2. The combination with the carriage of

the type-writer, with a second or auxiliary carriage running on a frame attached to said type-writer, of two controlling-escapements on the main machine and the frame attached to same, arms to form a detachable connection between the auxiliary carriage and the platen of the main machine with means for releasing the controlling-escapement of the main machine, and a spring on the frame for operating the auxiliary carriage in an opposite direction to the main-carriage movement substantially as and for the purpose described and shown.

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

MAX KLACZKO.

Witnesses:

M. GOTTLIEB,
EDGAR STEIN.