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1,459,554

H. SCHWEITZER

TYPEWRITING MACHINE

Filed Sept. 2, 1921

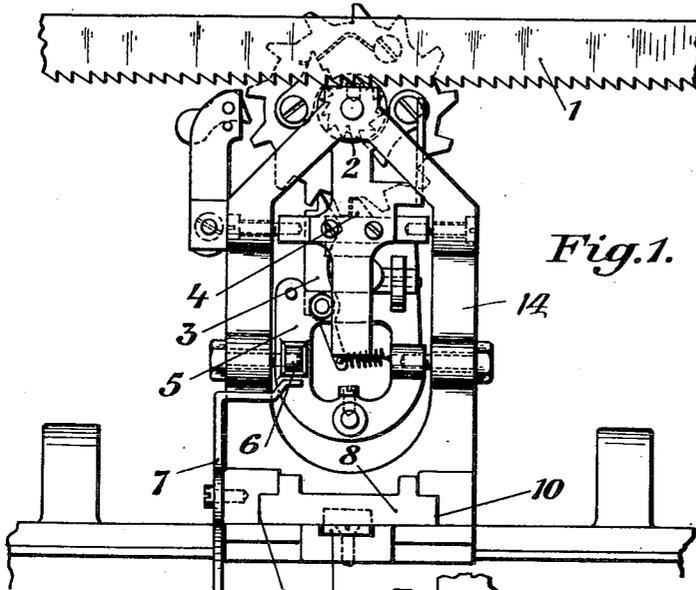


Fig. 1.

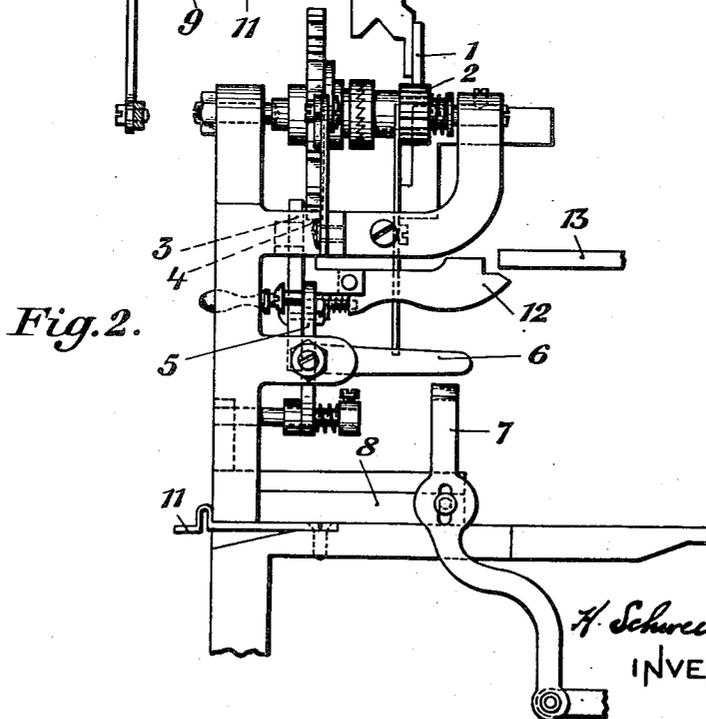


Fig. 2.

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HEINRICH SCHWEITZER, OF SOEMMERDA, GERMANY, ASSIGNOR TO THE FIRM OF RHEINISCHE METALLWAAREN- UND MASCHINENFABRIK, OF DUSSELDORF-RENDORF, GERMANY.

TYPEWRITING MACHINE.

Application filed September 2, 1921. Serial No. 498,038.

To all whom it may concern:

Be it known that I, HEINRICH SCHWEITZER, a citizen of Germany, residing at Soemmerda, Dreyseplatz 7, Germany, have invented certain new and useful Improvements in Typewriting Machines, of which the following is a specification.

This invention relates to an integrally formed escapement mechanism for typewriter carriages which is so arranged that it may slide into grooves of the machine and be retained in operative position by means of a spring clip.

Removal of the escapement mechanism from typewriting machines for the purpose of cleaning or repairs is not easily accomplished and requires much time in execution. Up to the present such removal has been effected by disengagement of screws, causing great trouble even to the expert. A known arrangement to overcome this inconvenience consists in lifting the escapement mechanism after introduction into the machine by means of a lever and keeping it in place by such lever, in order to bring the mechanism into engagement with the toothed rack of the carriage. This arrangement involves a complicated construction and skill in assembling the various parts. The object of the present invention is to overcome these drawbacks and to allow the whole escapement mechanism to be introduced into and removed from the machine more simply and quickly than has heretofore been possible. For this purpose, the escapement mechanism is mounted on a special supporting member, to which is secured a slide running in grooves of the machine frame and held in operative position by the spring clip. In order to permit a simple and quick removal of the support with the escapement mechanism without disconnecting any of the elements of the mechanism the arms or similar members actuating the pawls of the escapement mechanism are not directly connected with their driving levers, but are only situated within reach of them, so that they need not be loosened previous to the removal of the escapement mechanism.

In the accompanying drawings:

Fig. 1 is a front view of the escapement mechanism, and Fig. 2 a side view thereof.

The toothed rack 1 of the paper carriage engages in known manner with the small pinion 2 on the shaft of the escapement wheel and is pulled to the left by means of a spring, not shown in the drawing. Pawls 3 and 4, of which the one is fixed and the other loosely pivoted on a rocker, effect in known manner the intermittent movement of the carriage. The disengagement and locking of the pawls for alternately releasing and locking the toothed rack of the paper carriage, is effected by means of arms 6 and 12 arranged on said rocker and operated respectively by means of the lever 7 of the spacing key and the lever 13, in known manner. According to the invention, however, the driving levers 7 and 13 are in no way connected with the arms 6 and 12, but are in such juxtaposition thereto as to move these arms in the usual manipulation of the levers. This arrangement is such that the whole escapement mechanism may be moved into and out of operative position without interfering with the levers 7 and 13. This is effected through the instrumentality of a slide bar 8 integrally formed with the support 14 for the escapement mechanism and working in guiding grooves 9 and 10 of the frame of the machine. The support for the escapement mechanism is held in position by means of a spring clip 11, which may be pressed down to allow sliding of the bar 8 when the mechanism is to be removed.

Having thus described my invention, I claim:

1. In a typewriting machine, an escapement mechanism for controlling the carriage feed, a support for such mechanism as a unit, and means forming a part of said support for slidably connecting said support to the frame of said machine.

2. In a typewriting machine, an escapement mechanism for controlling the carriage feed, a support for such mechanism as a unit and a tenon and groove connection between said support and the frame of said machine whereby said mechanism may be

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bodily moved into and out of operative position.

3. In a typewriting machine, an escapement mechanism for controlling the carriage feed, a support for such mechanism as a unit, a tenon and groove connection between said support and the frame of said machine whereby said mechanism may be bodily moved into and out of operative po-

sition, and means for preventing accidental disengagement of said support. 10

In testimony whereof I have affixed my signature in presence of two witnesses.

HEINRICH SCHWEITZER.

Witnesses:

HERMANN WEISE,
WALTER LIEBICH.