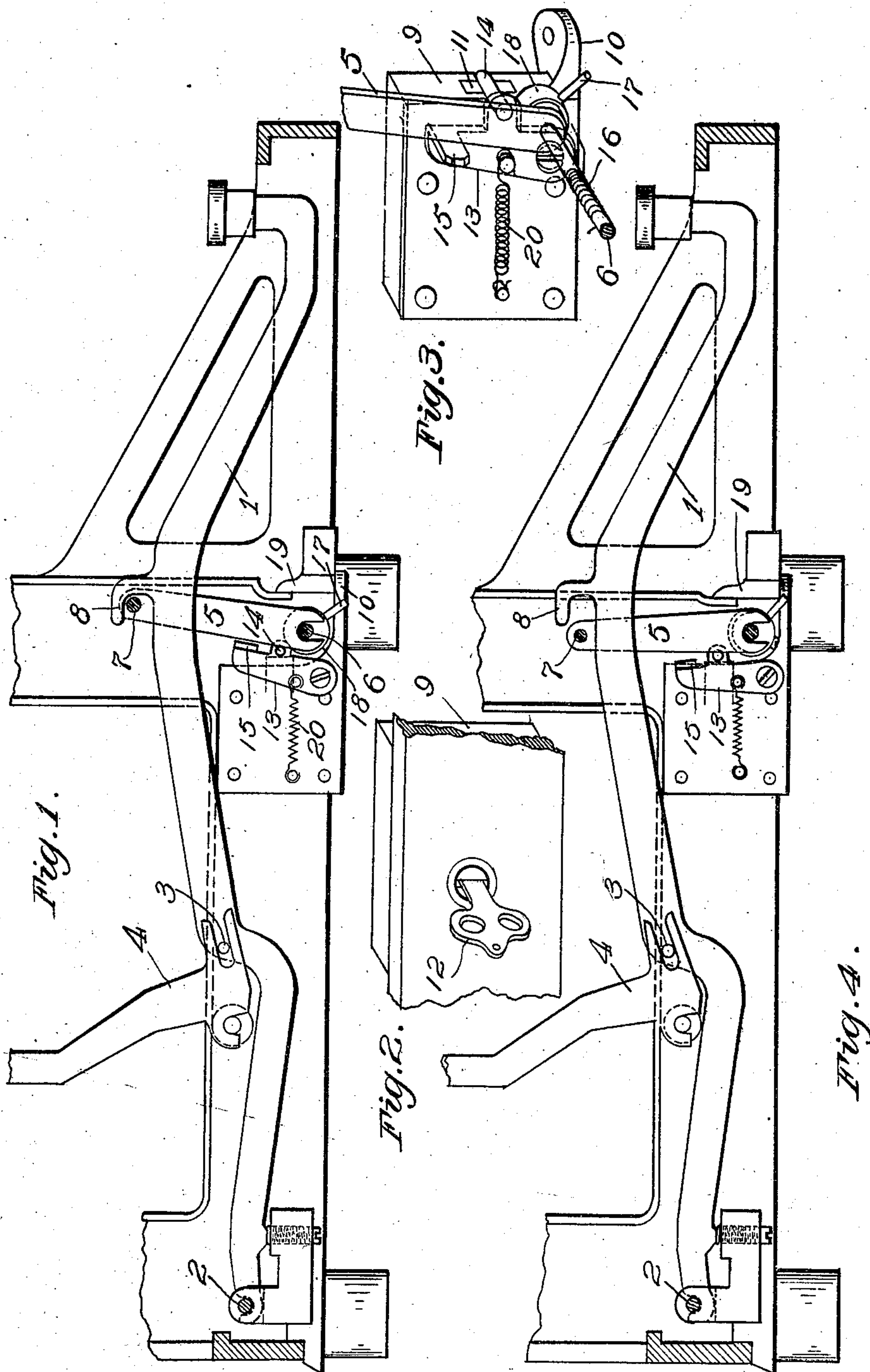


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PATENTED APR. 21, 1908.

G. A. McLEAN.
TYPE WRITING MACHINE.
APPLICATION FILED FEB. 25, 1908.



Witnesses:

John C. Seifert.
Frankfort.

Inventor:
George A. McLean,
By O. B. Stickney,
Attorney

UNITED STATES PATENT OFFICE.

GEORGE A. McLEAN, OF ATLANTA, GEORGIA, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

TYPE-WRITING MACHINE.

No. 885,509.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed February 25, 1908. Serial No. 417,783.

To all whom it may concern:

Be it known that I, GEORGE A. McLEAN, a citizen of the United States, residing in Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to the keyboards of type-writing and analogous machines. Machines of this character are commonly used in telegraph and other offices where it often happens that during the absence of the machine-operator a boy or unskilled person takes advantage of such absence and attempts to operate the machine, sometimes spoiling the work that was left in the machine by the operator, and sometimes disarranging the mechanism and injuring the machine.

The object of my invention is to overcome this difficulty, and to provide a device which will enable the machine operator to leave the machine unattended at any time without risk of its being tampered with by unauthorized persons. To this end, I provide inexpensive and effective means for locking all of the key levers in normal positions by means of a lock operable by a removable key, so that the machine-operator may, by simply introducing the key in the lock and turning the same, put the machine out of use; and he may remove the key and absent himself without possibility of the machine being operated during his absence.

I illustrate my improvements applied to the well known Underwood typewriting machine, upon which I have secured an ordinary "Yale" or other lock having a removable key, and the bolt of the lock is caused to operate the bar usually provided in said machine for locking the key levers against movement at the completion of a line of writing. Thus by a simple addition, consisting of an inexpensive lock, the machine is rendered insusceptible to injury from the cause stated.

In the accompanying drawings, Figure 1 is a sectional side elevation of part of an Underwood typewriting machine, including my improvements, showing the key-levers locked against operation. Fig. 2 is a fragmentary perspective view of a typewriting machine frame, showing the lock secured thereto, and a removable key inserted in said lock. Fig. 3 is a perspective view of the locking means

and the bracket for attaching to the machine frame. Fig. 4 is a view similar to Fig. 1, but showing the key levers released.

Key levers 1, fulcrumed on a rod 2, have pins 3 engaging bell-levers 4 for operating type bars, not shown.

In the Underwood typewriting machine is usually provided a key-locking mechanism, comprising a pair of arms 5 fulcrumed upon a rod 6, and supporting a locking-bar 7 which extends transversely of the key levers, to engage hooks 8 thereon to lock them against operation at the completion of a line of writing.

I secure an ordinary "Yale" or other lock 9 upon a bracket 10 attached to the frame of the machine, the lock having a bolt 11 operable by a removable key 12. An arm 13, preferably pivoted upon the bracket 10, has a pin or projection 14 in the path of the bolt 11, so that the bolt, when thrown out by the key, swings the arm 13 forwardly, and an ear 15 on said arm engages the arm 5 to swing the locking-bar 7 under the hooks 8 of the key levers, to lock them against depression.

The locking bar 7 is held normally out of engagement with the key levers by means of a spring 16, coiled around the rod 7.

The rearward movement of the locking bar is usually limited by a pin 17 secured in a collar 18 fastened upon the rod 6, said pin abutting against a lug or projection 19 on the machine frame, Fig. 4.

When it is desired to lock the machine in normal position, the key 12 is inserted into the lock and manipulated so that the bolt 11 of the lock will engage the pin or projection 14 of the arm 13, throwing the same forward, the ear 15 engaging with the arm 6 and swinging said arm and the locking-bar 7 forward to Fig. 1 position.

To unlock the machine, the key 12 is manipulated to throw back the bolt 11, when the spring 20 will pull back the arm 13, and the spring 16 will swing the locking-bar 7 back and release the key levers.

Having thus described my invention, I claim:

1. In a typewriting machine, the combination with key levers and a line-locking mechanism, of means for locking the key levers in normal positions, comprising a lock secured upon the machine frame having a bolt operable by a removable key, and an arm fulcrumed on said lock and movable by the bolt

thereof to engage with the line-locking mechanism.

2. In a typewriting machine, the combination with key levers and a line-locking mechanism, of a lock secured upon the machine frame having a bolt operable by a removable key, and an arm fulcrumed on the casing of the lock having a pin or projection engageable by the bolt of the lock to move said arm in engagement with the line-locking mechanism to lock the key levers against movement.

3. In a typewriting machine, the combination with key-levers, of an arm fulcrumed in the machine frame, and supporting a locking-bar normally out of engagement with the key-levers, a lock secured in the machine frame and having a bolt operable by a re-

movable key, and an arm pivoted upon the casing of the lock and movable by the bolt to engage the first-mentioned arm to swing it and the bar to lock the key-levers in normal positions.

4. In a typewriting machine, the combination with the key levers and line-locking mechanism, of a lock operable by a removable key and having a bolt, a bracket to secure said lock to the machine frame, and an arm pivoted on said bracket and having a pin or projection engageable by the bolt, said arm engageable with the line-locking mechanism to lock the levers in normal positions.

GEO. A. McLEAN.

Witnesses:

EDWARD ENGLAND,
E. W. MONTEITH.