

A. G. F. KUROWSKI.
 TYPE WRITING MACHINE.
 APPLICATION FILED JULY 20, 1915.

1,218,282.

Patented Mar. 6, 1917.

FIG. 1.

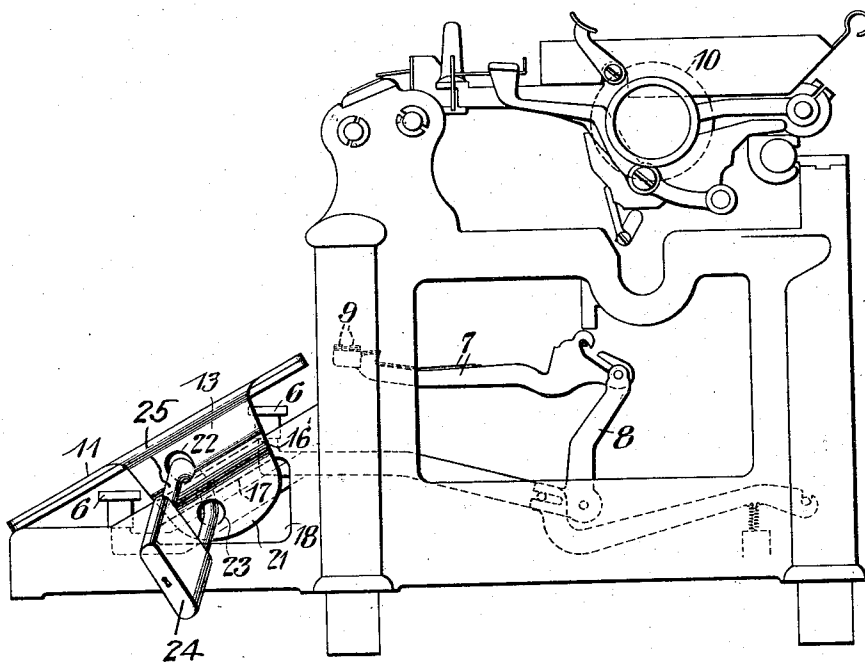


FIG. 2.

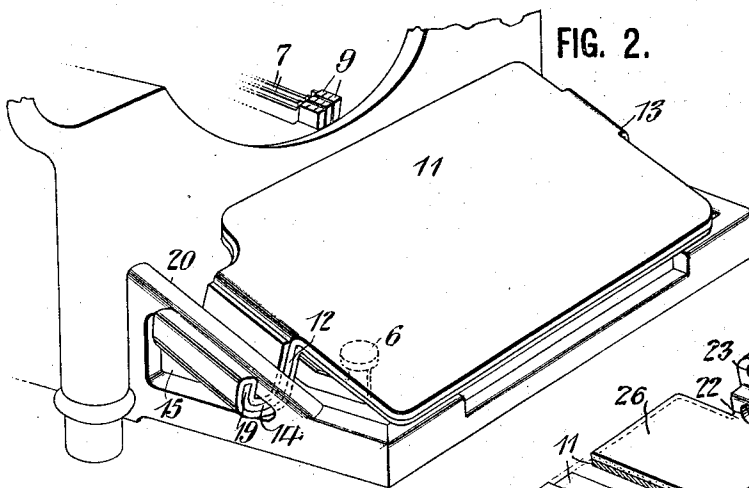
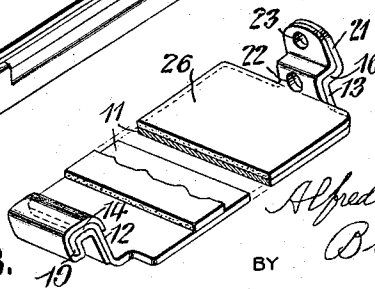


FIG. 3.



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UNITED STATES PATENT OFFICE.

ALFRED G. F. KUROWSKI, OF BROOKLYN, NEW YORK, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

TYPE-WRITING MACHINE.

1,218,282.

Specification of Letters Patent.

Patented Mar. 6, 1917.

Application filed July 20, 1915. Serial No. 40,819.

To all whom it may concern:

Be it known that I, ALFRED G. F. KUROWSKI, a subject of the German Empire, residing in Brooklyn borough, in the county of Kings, city and State of New York, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to typewriting machines, and more particularly to means for preventing the keys of the machine from being operated by unauthorized persons.

It has been found that when certain devices are used to prevent the keys from being operated by persons having no authority, said persons, on trying to use the machine, and finding that they cannot do so, become impatient and often try to force said keys downward, thus either bending or breaking them. In order to prevent this injury to the machine, I provide a plate or shield, of such size and shape as to cover the entire keyboard of the machine. The plate may have supporting arms at both ends, to rest on the frame of the machine. One of these arms may be provided with a hooked portion which may extend through the usual opening in the frame, and be pivotally hooked over the frame, while the other arm may be provided with a portion bent downwardly opposite an opening in the opposite side of the frame. This downwardly-extending portion lies against the outside of the frame, and coöperates with the hooked portion on the other arm in holding the plate against longitudinal movement on the machine. To seal or lock the plate to the frame, the arm thereon having the downwardly-extending portion may be provided with two holes, one above the frame, and the other opposite the opening in the frame, through which the staple of an ordinary padlock may be passed; said staple thus encircling a rib produced by the opening in the frame and coöperating with the hooked arm at the other side of the plate to prevent the removal of the plate. The plate may be lined with a soft material, such as felt, so that neither the keys or the frame may be scratched thereby.

The plate may also be used as a dust shield for the keys when the machine is out of use.

Other features and advantages will hereinafter appear.

In the accompanying drawing,

Figure 1 is a side elevation of an Underwood typewriting machine showing my invention applied thereto.

Fig. 2 is a fragmentary perspective view showing the plate in position to prevent the keys from being operated.

Fig. 3 is an inverted perspective view of the plate showing a part of the resilient material in section.

In the Underwood typewriting machine, keys 6 are connected to type-bars 7 through interponents 8 to cause types 9 to print characters on a work-sheet carried by a platen 10.

In order to prevent the keys from being operated by unauthorized persons, I cover the entire keyboard of the machine with a plate 11, which may rest on the frame of the machine on arms 12 and 13, the arm 12 having a bent portion 14 to rest on the bottom edge of the usual opening 15 in the adjacent side of the frame, while the arm 13 has a bent portion 16 to rest on the inclined rib 17 produced by the corresponding opening 18 in the other side of the frame. The plate may also rest with its forward edge on the front portion of the frame. To hold the plate against longitudinal shifting in one direction on the machine, an upwardly bent or hooked portion 19 of the arm 12 bears against the outside of the inclined frame rib 20 which borders the opening 15; shifting in the other direction being prevented by a downwardly-extending portion 21 of the arm 13 which bears against the outside of the rib 17. In placing the plate on the machine to cause the keys of the machine to become inaccessible to persons desiring to operate them, the operator, holding the plate in a vertical position, slips the hooked portion 19 over the inclined rib 20 and then swings the plate downwardly around said rib as a fulcrum or pivot until the bent portion 16 of the arm 13 rests on the rib 17. The plate may then be sealed to the machine, by passing the staple or hasp 25 of an ordinary padlock 24 through a hole 22 in the arm 13, and out through a hole 23 in the portion 21 of said arm 13, thus encircling the rib 17, the hole 22 being

above the rib 17, while the hole 23 is below the rib.

If an attempt is made to remove the plate, the staple of the padlock will strike against the under side of the rib 17, and thereby prevent the swinging of the plate to a vertical position, which is necessary in removing the plate; said plate being held at its other end by the portion 14, which bears against the under side of the rib 20, and being removable only when swung vertically to move the hooked portion 19 away from the outside of the rib.

In order that the plate may not scratch the keys and other parts of the machine, the portions of the plate which come into contact with the same, may be provided with a felt pad or covering 26, which may be held to the surface of the plate by shellac or other adhesive.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:

1. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having one of its ends detachably and pivotally engaged with the adjacent side member of the keyboard frame, to permit said cover to be swung directly into and out of effective position; and means for locking the opposite end of said cover to the other side of said keyboard frame, when said cover is in effective position.

2. A keyboard cover for typewriters, arranged to directly overlie the keys so as to render them inaccessible for operation, said cover having a hook at one end detachably and pivotally engaged with the adjacent side member of the keyboard frame, to permit said cover to be swung directly into and out of effective position; and means for locking the opposite end of said cover to the other side of said keyboard frame, when said cover is in effective position.

3. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having one end bent to hook around the adjacent side member of the keyboard frame, and having its other end bent to rest upon the opposite side member of said frame; and means for locking the second-named end and its associated frame member together.

4. A detachable keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover provided at its opposite ends with devices for engagement with the adjacent side members of the keyboard frame to prevent endwise movement of the cover; and means cooperative with

one of said devices for locking the cover against movement.

5. A detachable cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover provided at its opposite ends with extensions or arms for engagement with the adjacent side members of the keyboard frame to prevent endwise movement of the cover, one of said arms loosely engaging its respective frame member, to permit a swinging movement of the cover about said member as a fulcrum into and out of effective position; and means engageable with the other arm, when said cover is in effective position, to lock said other arm to its associated frame member.

6. The combination with a frame and a key-lever mechanism contained therein, said frame having openings in its opposite sides, of a removable plate or shield for rendering said key-lever mechanism inaccessible for operation, and arms at opposite sides of said plate cooperating with each other and dependent upon said openings for preventing manipulation or removal of said plate, one of said arms having a portion hooked over the frame at one of said openings holding said plate to the frame when in a horizontal position, and allowing the removal of said plate when in a vertical position, and the other of said arms being held to the frame in a horizontal position by the hasp of a padlock, said hasp passing in through a hole in the arm, then through the other of said openings, and out through another hole in said arm, thus encircling a portion of said frame near said opening.

7. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having at one end an extension or arm adapted to be passed through the opening at the adjacent side of the keyboard frame and engaged with the frame rib bordering said opening; and means for locking the other end of the cover to the similar rib at the opposite side of said keyboard frame, to prevent endwise movement of said cover.

8. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having at one end an extension or arm adapted to be passed through the opening at the adjacent side of the keyboard frame and engaged with the frame rib bordering said opening, and having at its other end an extension or arm bent to rest upon the similar rib at the opposite side of said keyboard frame; and means for locking the second-named arm to its associated rib, to prevent endwise movement of said cover.

9. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said

cover having at one end an extension or arm adapted to be passed through the opening at the adjacent side of the keyboard frame and engaged with the frame rib bordering said opening, and having at its other end an extension or arm bent to rest upon the similar rib at the opposite side of said keyboard frame, the second-named arm having openings located above and below its associated rib; and locking means comprising a part extending through said arm openings and encircling said rib, for locking the latter and said second-named arm together, to prevent endwise movement of said cover.

10. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having at one end a hooked portion adapted to be passed through the opening at the adjacent side of the keyboard frame and detachably engaged with the rib bordering said opening, to permit the cover to be swung vertically about said rib as a fulcrum, into and out of effective position, and having at the other end an arm adapted to rest upon the similar rib at the opposite side of said keyboard frame; and means for locking said arm to its associated rib when said cover is in effective position.

11. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having at one end a hooked portion adapted to be passed through the opening at the adjacent side of the keyboard frame and detachably engaged with the rib bordering said opening, to permit the cover to be swung vertically about said rib as a fulcrum, into and out of effective position; and means for locking the other end of the cover to the

similar rib at the opposite side of said keyboard frame when said cover is in effective position.

12. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having at one end a portion which is adapted to be passed through the opening at the adjacent side of the keyboard frame and to be pivotally and detachably engaged with the rib bordering said opening, to permit said cover to be swung into and out of effective position; and means for locking the other end of the cover to the similar rib at the opposite side of said keyboard frame when said cover is in effective position.

13. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having at one end a hook to detachably engage the adjacent side member of the keyboard frame; and means for locking the opposite end of said cover to the other side member of said keyboard frame, to hold the cover against movement.

14. A keyboard cover for typewriters, arranged to directly overlie the keys, so as to render them inaccessible for operation, said cover having at one end a hook to detachably engage the adjacent side member of the keyboard frame; and having its other end bent to rest on the other side member of said keyboard frame; and means for locking the second-named cover end and its associated frame member together, to hold the cover against movement.

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."