

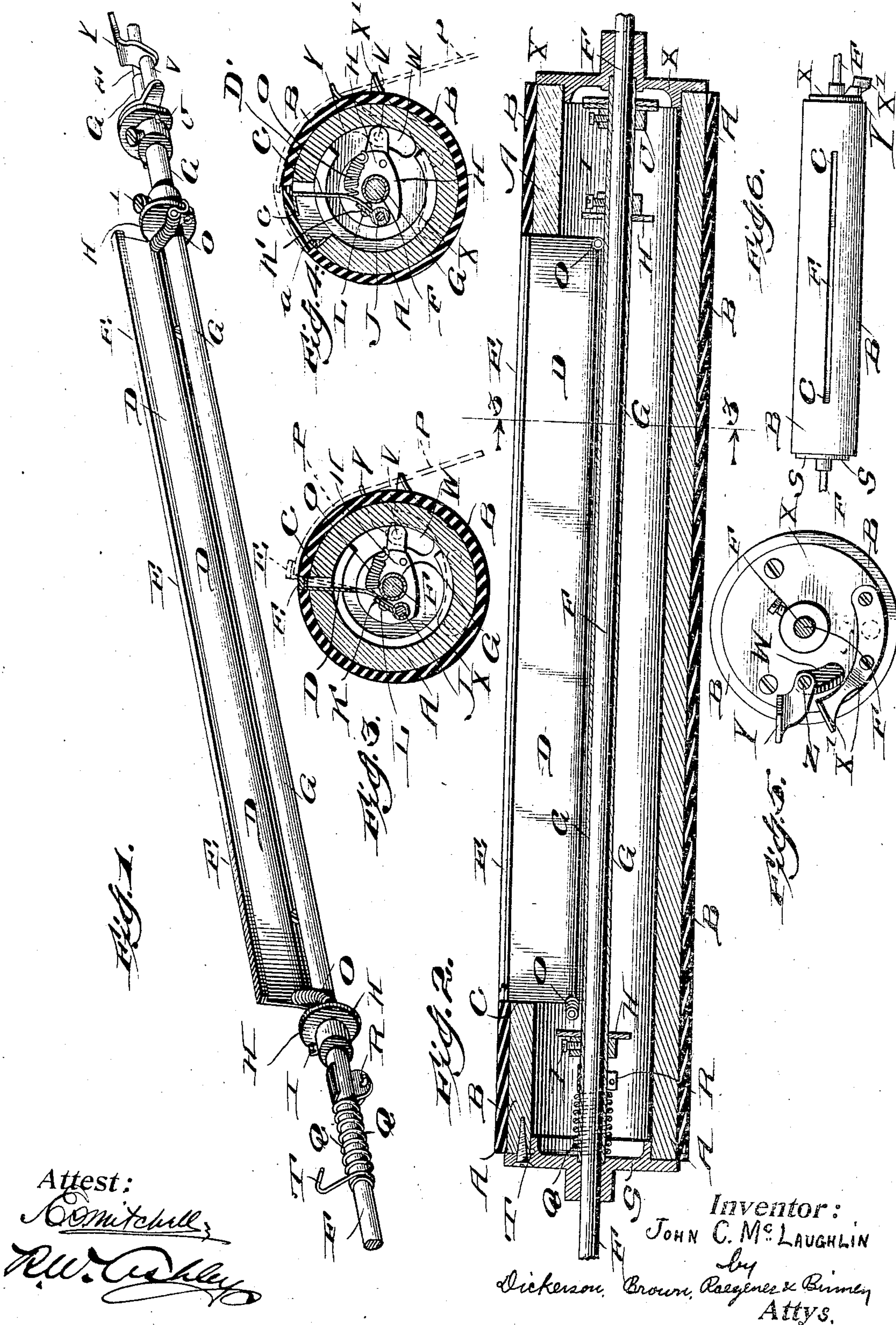
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J. C. McLAUGHLIN.

CARD HOLDING DEVICE FOR TYPE WRITERS.

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UNITED STATES PATENT OFFICE.

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CARD-HOLDING DEVICE FOR TYPE-WRITERS.

No. 816,174.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN C. McLAUGHLIN, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Card-Holding Devices for Type-Writers, of which the following is a specification accompanied by drawings.

This invention relates to improvements in card-holding devices for type-writers; and the objects of the invention are to improve upon such devices and enable the cylindrical platen of the machine to be utilized for both paper and cards without altering or removing any of the parts.

Another object of the invention is to secure a smooth unbroken surface on the platen all of the same character for the use of paper when the card-holding device is not in use.

My improved card-writing device is designed for adaptation to the cylindrical platen of any type-writing machine and is not confined to any special type of machine, so that the invention is, in fact, a universal attachment for type-writers simple and efficient in construction and operation and cheap and strong and not liable to get out of order.

The invention consists of a card-holding device for carrying out the above objects embodying the features of construction, combinations of elements, and arrangements of parts having the general mode of operation substantially as hereinafter fully described and claimed in this specification and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of the card-holding attachment to be applied to a cylindrical platen. Fig. 2 is a longitudinal sectional view through the platen and attachment. Fig. 3 is a transverse sectional view on line 3 3 of Fig. 2 looking in the direction of the arrows with the card-clamp shown raised in dotted lines for the reception of the edge of a card. Fig. 4 is a transverse sectional view of a modification of the invention, showing a hinged clamp. Fig. 5 is an end view of the right-hand end of cylindrical platen. Fig. 6 is a plan view of the platen on reduced scale.

Referring to the drawings, A represents a hollow cylindrical platen for a type-writing machine provided with my improvement.

The surface of the platen is formed of hard rubber B or other suitable material, as in the usual construction, and a slot C is cut in the walls of the platen and through the rubber surface covering in order to enable the card-holding clamp D to be projected and retracted through the walls of the platen.

The card-holding clamp D is preferably provided with a surface E similar to that of the platen, and when the clamp is in retracted position it preferably lies in the slot C with the surface E substantially flush with the surface B of the platen, so that a substantially unbroken surface all of the same character is provided for the platen, thereby enabling the same platen to be used for paper or cards without alteration or removal of any of the parts of the card-holding device.

Any suitable means may be provided for projecting and retracting the card-holding clamp D, and in this instance an efficient and preferable construction is shown in the drawings which has been found to operate satisfactorily and well. Upon the platen-shaft F is arranged a loose sleeve G, to which the clamp D is suitably pivoted, as by means of the collars H, secured to the sleeve, in this instance by set-screws I. As shown, the clamp D is secured to a bar J by any suitable means, as the holding device or devices K and rivets L; but I am not to be understood as limiting myself to the apparatus disclosed, and the ends of the bar J are inserted in holes in the flanges of the collars H, so that the clamp D may have movement relatively to the collars.

When placed in position in the platen, the clamp D projects into the slot C, and suitable means are provided at the exterior of the platen or roll for rotating the sleeve G, and with it the collars H, so that the clamp D is moved outwardly and projected through the slot C in the platen, in which case the tension-springs O, connecting the clamp and the sleeves H, tend to draw the clamp transversely to the axis of the platen or forward, as indicated in dotted lines in Fig. 3, thereby permitting a card P to be inserted between the flanged or hooked end of the clamp and the platen-surface. A retracting-spring Q, connected to the sleeve G by means of the lug R and the end disk S of the platen at T, tends to retract the clamp D when the

hooked end of the clamp is pushed away from the edge of the slot C in the platen, either by hand or by turning the platen until the projecting end of the clamp D abuts against the longitudinal measuring-bar of the machine, in which case the clamp D snaps back into retracted position in the slot C.

In order to rotate the sleeve D, as shown, a sleeve U is connected fast thereto and provided with a cranked arm V, adapted to project through a slot W in the end disk X of the platen and adapted to have secured thereto the thumb-piece Y, as by means of the screw Z.

The end disks S and X are secured fast to the body portion of the platen, and the disk X is provided with a thumb-piece X'. It will be seen that when the thumb-pieces Y and X' are pressed together the clamp D will be projected into position for holding a card. According to this invention the operative parts connected to operate the clamp D form a spring-controlled toggle-acting mechanism, of which the clamp D forms one leg, having an abutment against the edge of the slot C, and the lever-arm, comprising the thumb-piece Y, crank V, and sleeves U, G, and H, forms the other leg of the toggle to which the clamp D is pivoted. The thumb-piece X' is fixed, and by moving the thumb-piece Y the toggle-acting mechanism is actuated to move the clamp D.

Preferably the projecting lip or flange on the clamp D is curved on its upper and under sides to conform to the curvature of the surface of the platen.

In Fig. 4 a modification is shown in which a longitudinally-extending portion c of the platen-wall is hinged at a and suitably connected to the plate D', the remaining parts of the device being like those already described. When the thumb-piece Y is operated, it will be seen that the hinged portion C of the platen will be raised and lowered to permit a card P to be clamped.

Obviously some features of this invention may be used without others and the invention may be embodied in widely-varying forms.

Therefore, without limiting myself to the construction described nor enumerating equivalents, I claim, and desire to obtain by Letters Patent, the following:

1. In a device of the class described, the combination of a hollow platen having a longitudinal slot, a card-holding clamp having a surface similar to that of the platen, and means within the platen for projecting the clamp outwardly and forwardly through the said slot in the walls of the platen and for retracting the clamp, said clamp when retracted being adapted to lie substantially flush with the surface of the platen.

2. In a device of the class described, the combination of a hollow cylindrical platen

having a longitudinal slot, and a card-holding clamp within the platen adapted to be projected and retracted through said slot, the said clamp having a surface similar to the platen and when retracted being adapted to lie substantially flush with the surface of the platen.

3. In a device of the class described, the combination of a hollow cylindrical platen having a longitudinal slot in its periphery, a card-holding clamp within the platen and rotary means also within the platen for projecting and retracting the clamp through said slot, the clamp when retracted being adapted to lie substantially flush with the surface of the platen, having a surface of material similar to the surface of the platen.

4. In a device of the class described, the combination of a hollow cylindrical platen, a card-holding clamp within the platen adapted to be projected and retracted through the walls of said platen, rotary means within the platen revoluble about the axis of the platen for moving said clamp outward, and operative means within the platen for retracting the clamp.

5. In a device of the class described, the combination of a hollow cylindrical platen and a toggle-acting card-holding clamp within the platen and adapted to be projected and retracted through the walls of said platen.

6. In a device of the class described, the combination of a hollow cylindrical platen, and a toggle-acting spring-controlled card-holding clamp within the platen and adapted to be projected and retracted through the walls of said platen.

7. In a device of the class described, the combination of a hollow cylindrical platen and a toggle-acting spring-controlled card-holding clamp within the platen and adapted to lie substantially in the plane of the surface of the platen when retracted.

8. In combination, a platen, a section normally forming a part of the printing-field of the platen but movable up from the platen, a finger-piece for effecting movement of said section, and means for enabling said section to nip the edge of a card against an adjoining portion of the printing-surface of the platen.

9. The combination with a platen of a hooked member having one part seated in the surface of the platen and another part extending within the platen, means for projecting said hooked member, a spring for causing said hooked member to hook over the adjoining edge of the platen, and a spring tending to draw said hooked member into the platen.

10. The combination with a platen, of a hooked member having one part seated in the surface of the platen and another part extending within the platen, a finger-piece connected to said hooked member to project the same, and yielding means tending to draw said hooked member into the platen; means

being provided for pressing the hooked member against the adjoining edge of the platen.

11. The combination with a revoluble platen, of a card-holder extending for substantially the whole length of the printing-field of the platen and sunken therein, the exterior of said card-holder being of the same material as the surface of the platen and forming therewith an unbroken printing-surface, and for projecting said card-holder, and means for causing the card-holder to nip the edge of a card.

12. The combination with a revoluble platen, of a card-holder sunken in the platen, the exterior of the card-holder being of the same material as the surface of the platen and forming therewith an unbroken printing-surface, a finger-piece mounted at the end of the platen and connected to said card-holder to project the same, and yielding means for causing the card-holder to nip the edge of a card; means being provided for returning the holder to normal position when released.

13. The combination with a revoluble platen having an axle, of a loose sleeve upon said axle, a finger-piece for turning said sleeve while the axle remains stationary, collars or arms fixed upon said sleeve, and a card-clamp hinged to said collars and extending out through the platen; the head of said clamp forming normally a portion of the printing-field of the platen.

14. The combination with a revoluble platen having an axle, of a sleeve loose upon said axle, means for turning said sleeve independently of the platen, collars fixed upon said sleeve, a card-clamp having a head extending through the platen, said clamp hinged to said collars, and said head normally forming a portion of the printing-field of the platen, a spring for retracting said clamp, and a spring tending to hold said clamp against the adjoining edge of the platen.

15. The combination with a platen having a yielding surface, of a card-holding clamp mounted thereon and having a similar surface.

16. The combination with a platen having a yielding surface, of a card-holding clamp having a surface similar to that of the platen, and means for projecting the clamp through the wall of the platen and means for retracting the clamp; said clamp when retracted

constituting a portion of the printing-field of the platen.

17. The combination with a cylindrical platen having a longitudinal slot, of a card-holding clamp mounted so as to be capable of projection and retraction through said slot; said clamp when retracted being flush with the surface of the platen and forming a portion of the printing-field thereof, and formed with a part to catch over the edge of the platen when the clamp is projected, to nip a card between the clamp and the platen.

18. The combination with a cylindrical platen having a longitudinal slot in its periphery, of a card-holding clamp, and rotatable means for projecting and retracting the clamp through said slot; the clamp when retracted forming a part of the printing-field of the platen, and formed with a part to catch over the edge of the platen when the clamp is projected, to nip a card between the clamp and the platen.

19. The combination with a cylindrical platen having an axle and provided with a longitudinal slot in its periphery, of a card-holding clamp, and means mounted upon the platen-axle for projecting said clamp; the latter when retracted lying flush with the surface of the platen and forming a portion of the printing-field thereof, and formed with a part to catch over the edge of the platen when the clamp is projected, to nip a card between the clamp and the platen.

20. The combination with a cylindrical platen, of a toggle-acting card-holding clamp mounted for projection and retraction through the wall of the platen, and normally forming part of the printing-field of the platen.

21. The combination with a platen of a card-holding clamp having a head normally flush with the surface of the platen, so that an unbroken surface is presented, said head being mounted so as to be capable of catching over the adjoining edge of the platen, and yielding means to enable said head to nip the edge of a card.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN C. McLAUGHLIN.

Witnesses:

G. A. WILLUMSEN,
C. A. MEHNE.