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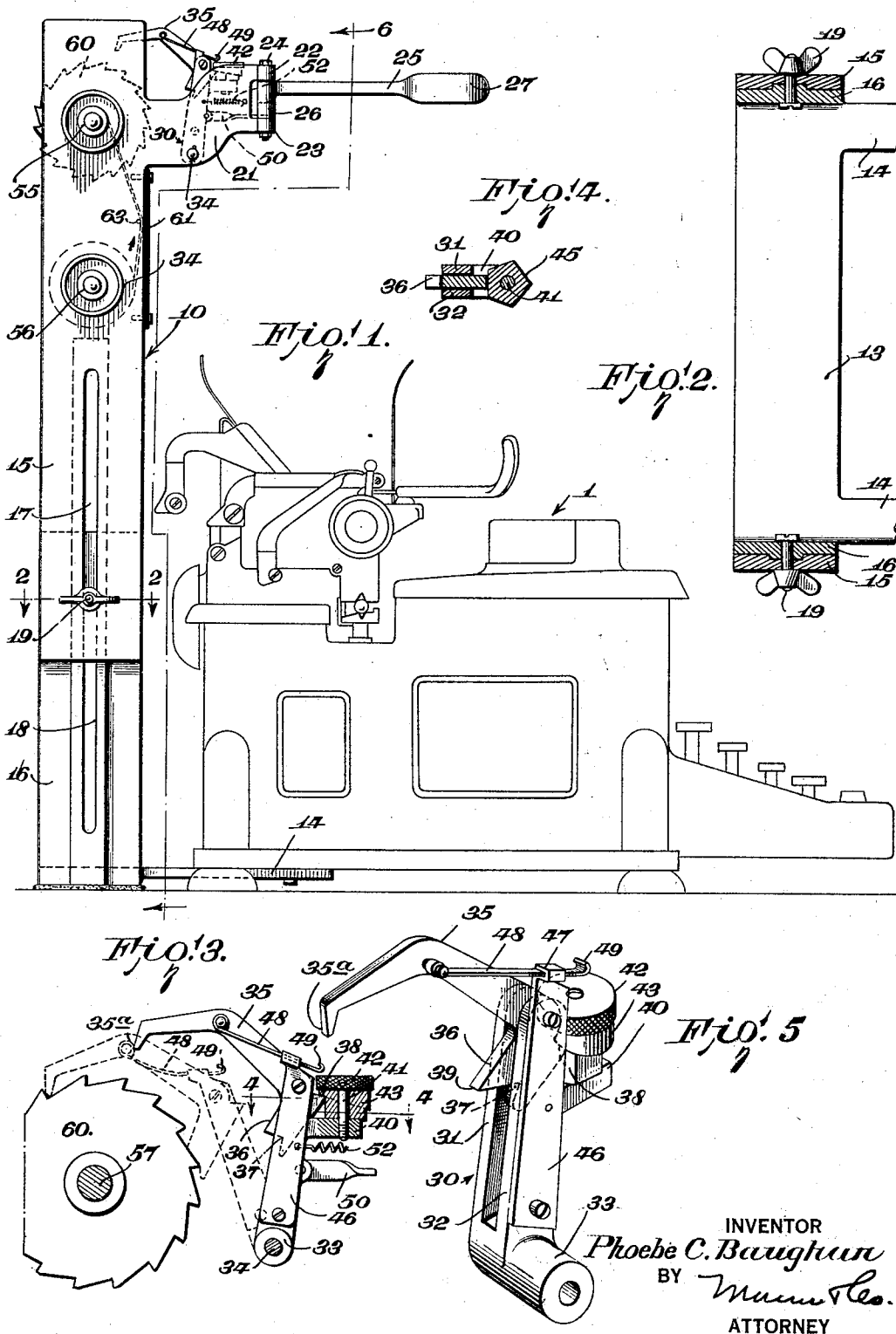
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RATCHET OPERATOR FOR COPYHOLDERS

Filed April 7, 1928

2 Sheets-Sheet 1



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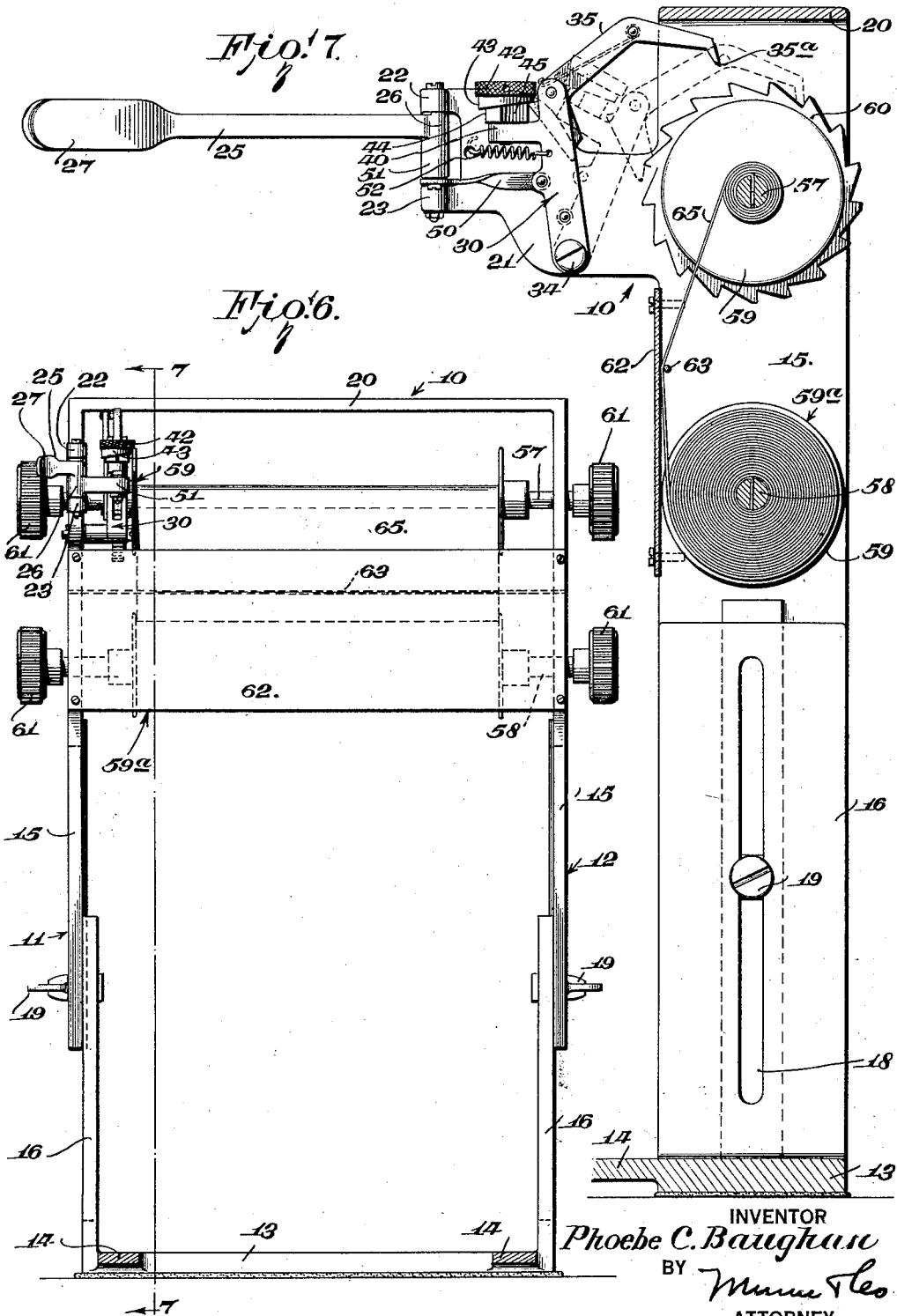
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UNITED STATES PATENT OFFICE

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RATCHET OPERATOR FOR COPYHOLDERS

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This invention relates to copyholders and more particularly to that type of copyholder employed by stenographers and typewriters.

A primary object of the invention is to provide a holder of this character adapted to be supported adjacent a typewriter in position to display the copy so that it will be always in front of and visible to the operator.

Another object is to provide improved means for shifting the copy at will and to so display it that a single line will be arranged adjacent the gauge and several lines above and below the gauge may be displayed for the convenience of the operator.

Another object is to provide a transparent line guide to enable the operator to locate his place at a glance, and also to view lines already written so that if a mistake should occur, it may be corrected at once.

Another object is to provide improved means for holding the copy in adjusted position without danger of its shifting, and in which position it will remain until manually released.

In carrying out these objects, the invention is susceptible of a wide range of modification without departing from the spirit or sacrificing any of the advantages of the claimed invention, there being shown in the drawings for illustrative purposes a preferred and practical form, in which,

Figure 1 represents a side elevation of a holder constituting this invention shown in relation to a typewriter, which is also shown in side elevation, and in lighter lines than the device constituting the invention,

Fig. 2 is a transverse section taken on the line 2—2 of Fig. 1,

Fig. 3 is a detail view partly transverse section,

Fig. 4 is a detail sectional view taken on the line 4—4 of Fig. 3,

Fig. 5 is a detail perspective view of the lever controlled pawl constituting a feature of the invention,

Fig. 6 is a front elevation of the holder taken substantially on the line 6—6 of Fig. 1, and

Fig. 7 is a vertical section taken on the line 7—7 of Fig. 6.

In the embodiment illustrated a typewriter 1, of any make, is shown in side elevation in Fig. 1, at the rear of which is mounted the holder 10 constituting this invention.

The holder 10 as here shown, comprises sectional supporting standards 11 and 12 connected at their lower ends by a base plate 13 having forwardly extending arms 14 which are designed to extend under the typewriter 1 as shown in Fig. 1, and, if desired, may be bolted or otherwise fixed thereto so that the holder will be held in rigid relation in regard to the typewriter, and thereby held against accidental upsetting. These standards 11 and 12 are exactly alike, and hence one only will be described in detail. The sections 15 and 16 of each standard are longitudinally slotted, as shown at 17 and 18 and are arranged in lapping relation with the slots in the sections registering and adapted to receive a wing nut and bolt shown at 19 whereby the sections may be adjusted relatively to each other and secured in adjusted position. This adjustment of the sections, of course, provides for the lengthening or shortening of the standards according to the position it is desired to locate the copyholder proper in relation to the typewriter.

A cross bar 20 preferably connects the upper ends of the sections 15 as is shown clearly in Fig. 6.

One upper section 15 is provided along its inner edge near its upper end with a forwardly projecting arm 21. This arm 21 is bifurcated at its free end to form bearings 22 and 23 arranged one above the other to receive a pintle 24 which extends through the bearings 22 and 23 and through a bearing or knuckle 26 of an actuating lever 25, the free

end of which is flattened to form a finger grip handle 27.

A lever 30 composed of two laterally spaced arms 31 and 32 carried by a sleeve 33 is fulcrumed on a stub shaft 34 carried by the arm 21. Between the upper ends of the arms 31 and 32 of the lever 30 is pivoted a pawl 35 here shown elbow-shaped in form, and which is designed for a purpose presently to be described. The inner pivoted end of this pawl has a right angularly extending arm 36 having a notch 37 in its free end and a rearwardly extending tooth 38 formed in its rear end at its junction with the body portion of the pawl. The notch 37 formed in the free end of arm 36 provides an inclined stop 39 for engagement with the teeth of the ratchet in connection with which the pawl is to be used and limits the throw of the pawl, as is shown in dotted lines in Fig. 3.

A lug 40 projects laterally rearward from the arm 32 of the lever 30 as shown clearly in Figs. 3 and 5, and has a set screw 41 with a knurled head mounted therein, said head being numbered 42. On the shank of the screw 41 between the head 42 thereof and the bracket or lug 40 is mounted a cam member 43 including an eccentric inclined shoulder 44 and a body portion 45 polygonal in cross section and with this the tooth of the pawl 35 is designed to engage and by means of which the stroke of the pawl is controlled to adapt its point 35^a to engage one, two, or three teeth of the ratchet 60, according to the will of the operator.

A plate 46 is mounted on the outer face of the arm 32 of lever 30 as shown clearly in Figs. 3 and 5 with the upper end extending above said arm and provided with a keeper 47 in which is slidably mounted a plate spring 48 attached at one end to the elbow-shaped pawl 35 at the elbow thereof and having its other end provided with a hook 49 designed to engage the keeper and limit the stroke of the pawl.

The sections 15 of the standards 11 and 12 are provided at their upper portions with longitudinally spaced bearings 55 and 56 to receive rods 57 and 58 which constitute the journals of paper rolls or drums 59 and 59^a. The rods 57 and 58 are designed to extend through the standards and are provided at their ends with knurled knobs 61 to provide for the turning of the paper rolls by hand and which are removable to facilitate the insertion and removal of said rolls. A ratchet gear 60 is fixed to one end of the rod 57 in position to be engaged by the pawl 35 by means of which the drum 59 is rotated to wind from the drum 59^a the paper strip 61 which contains the matter to be copied.

Arranged across the front of the holder and secured to the front edges of the standard sections 15 is a transparent plate 62, preferably of glass, which extends down over the

front of the lower roller 59^a and over the space between the two rollers, so that the paper web being fed from one drum to the other will be visible therethrough. A line indicator 63 extends across the rear face of the plate 62 from one side of the holder to the other and is designed to be positioned directly below the line of writing to be copied so that the operator may see at a glance just the line on which she is working. The glass plate 62 also permits the operator to see a few lines above and below the indicator 63 so that should any mistake occur, it can be readily corrected.

A link 50 connects the lever 30 with the lever 25 by means of an arm or lug 51 carried by the knuckle of said lever and located in a plane at right angles to the lever 25. (See Fig. 6.) This link 50 is preferably made of a metal strip twisted to facilitate its attachment to the levers. A coiled spring 52 connects the lever 30 with a portion of the forwardly projecting arm 21 and is designed when lever 25 is released to exert its tension to return the pawl 35 to disengaged position, that is, to lift it out of contact with the ratchet 60, as shown in Fig. 7, also in Figs. 1 and 3.

In the use of this holder, it having been connected with the typewriter 1 as shown in Fig. 1, the standards 11 and 12 may be adjusted by loosening the wing nuts 19 and moving the sections 15 up or down, according to the position in which it is desired to locate the holder proper. These nuts 19 are then tightened up and the device will be ready for use after the paper rolls have been placed therein. This is accomplished by removing the knobs 61 at the right of the holder and placing the rolls in position and inserting the pintles or rods 57 and 58 therethrough, then replacing the knobs as shown in Fig. 6. The roll 59^a containing the matter to be copied will be fed from said drum or roll to the roll 59 located above it, and this feeding may be accomplished either by turning the knobs of the upper roll by hand to wind the web or strip 65 onto the drum 59, or it may be done by means of the lever 25 which is the quicker way, since all that is necessary is to move the lever laterally outward which the operator can quickly do, and this will cause the pawl 35 to engage the teeth of the ratchet 60 and rotate the drum one or more teeth according to the position of the pawl control 43. When the lever 25 is released, the spring 52 will expand and return the lever 25 to normal position and also carry the lever 30 back with it, thereby disengaging the pawl from the ratchet wheel ready for the next operation.

While this holder is primarily intended to be used with a tape or strip on which the dictation is taken, obviously, it may be used in connection with a shorthand tablet of

ordinary form, which will be placed on the web which is wound on the roller, and which makes a flat surface at the back of the transparent plate 62. This shorthand tablet will be clamped in position at the top and thus allow it to be carried just as the roll paper would be carried but only the length of the tablet sheet.

Without further description, it is thought that the features and advantages of the invention will be readily apparent to those skilled in the art, and it will of course be understood that changes in the form, proportion and minor details of construction may be resorted to, without departing from the spirit of the invention or its scope as claimed.

I claim:—

1. A copy holder comprising a supporting frame, a ratchet carried member revolubly mounted on said frame, an arm extending laterally from said frame, an actuating lever mounted to swing on said arm, another lever fulcrumed on said arm, a pawl pivoted on said last mentioned lever, a notched laterally extending arm carried by said pawl, said pawl and notched arm being positioned to engage said ratchet, one to actuate the ratchet and the other to limit the throw of the pawl and means connecting said levers whereby they are simultaneously operated.

2. The combination with a revolubly mounted ratchet wheel; of an L-shaped lever having means for fulcruming it on a support, an elbow-shaped pawl pivoted to said lever and adapted to engage said ratchet wheel, a right angular arm at the pivoted end of said pawl, said arm having a notch in its free end to form a stop for engagement with the teeth of said ratchet wheel to limit the throw of the pawl.

3. The combination with a revolubly mounted ratchet wheel; of an L-shaped lever having means for fulcruming it on a support, an elbow-shaped pawl pivoted to said lever and adapted to engage said ratchet wheel, a right angular arm at the pivoted end of said pawl, said arm having a notch in its free end to form a stop for engagement with the teeth of said ratchet wheel to limit the throw of the pawl and cooperating means carried by said pawl and lever to limit the stroke of the pawl.

4. The combination with a revolubly mounted ratchet wheel; of an L-shaped lever, one member of which is in the form of a sleeve for fulcruming the lever, the other member being in the form of laterally spaced arms, an elbow-shaped pawl pivoted near one end between said arms and adapted to engage said ratchet wheel, a right angular arm at the pivoted end of said pawl, said arm having a notch in its free end to form a stop for limiting the throw of the pawl.

5. The combination with a revolubly mounted ratchet wheel; of an L-shaped le-

ver having means for fulcruming it on a support, an elbow-shaped pawl pivoted to said lever and adapted to engage said ratchet wheel, a right angular arm at the pivoted end of said pawl, said arm having a notch in its free end to form a stop for engagement with the teeth of said ratchet wheel to limit the throw of the pawl, a keeper mounted on said lever, and a plate spring carried by the pawl and slidable in said keeper, said spring having means for engaging the keeper to limit the stroke of the pawl.

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