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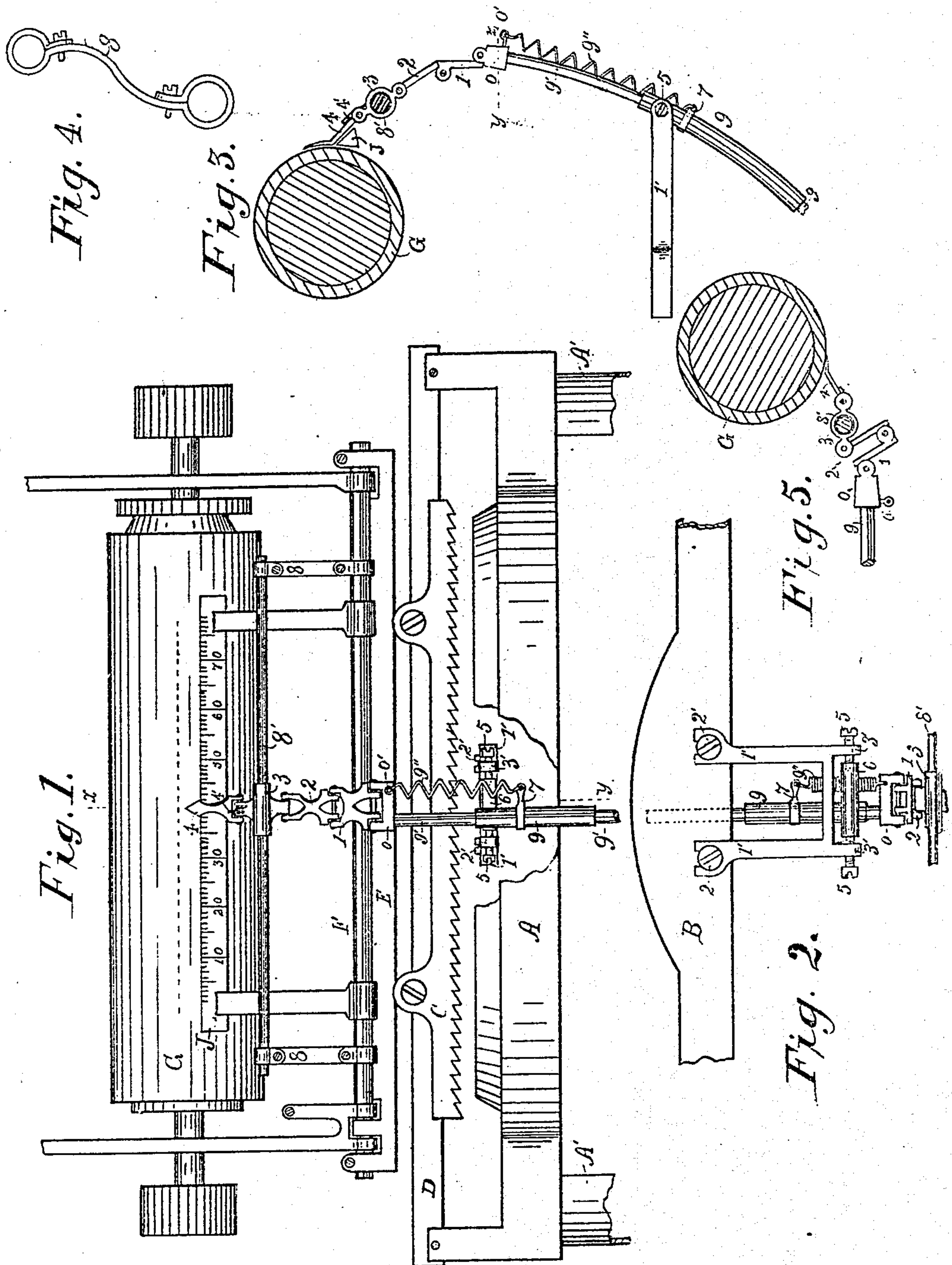
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C. E. KELLEY.

POINTER ATTACHMENT FOR TYPE WRITERS.

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Witnesses

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## UNITED STATES PATENT OFFICE.

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## POINTER ATTACHMENT FOR TYPE-WRITERS.

No. 807,746.

Specification of Letters Patent.

Patented Dec. 19, 1905.

Application filed March 3, 1905. Serial No. 248,326.

*To all whom it may concern:*

Be it known that I, CHARLES E. KELLEY, a citizen of the United States, residing at Oklahoma, in the county of Oklahoma and Territory of Oklahoma, have invented new and useful Improvements in Pointer Attachments for Type-Writers, of which the following is a specification.

My invention relates to pointer attachments for type-writers, more especially adapted to the Remington pattern, said attachment device consisting of a base-plate having two parallel legs with slotted feet adapted to screws normally in the machine, the said legs being tied by a cross-bar and terminating in projecting heads, into which are fitted inwardly-converging conically-pointed screws engaging and carrying a rocker-shaft having secured thereto (laterally) a curved tube adapted to receive a pointer extension-rod carrying a cross-head, to which is hinged a knuckle-jointed extension-plate 1, having hinged to its opposite end a second extension-plate, to which is hinged a pointer-supporting sleeve, in which is a pointer-supporting rod, being maintained in position by duplicate stay-bars secured to the carriage-supporting pivot-shaft of the machine. To the upper portion of the said sleeve is hinged a pointer finger or index having its extreme end pressed against the platen or paper by means of a spiral spring, the said finger-point being adapted to the right or left adjustment to secure alinement with the type impression on the paper by means of the aforementioned conically-pointed screws. To facilitate the downward and backward receding of the pointer extension-rod and cross-head, a spiral spring is attached thereto and to the guide-tube, all of which will hereinafter be more fully explained.

The objects of my invention are, first, to provide an accurate and reliable pointer or index attachment for the Remington and like type-writers; second, one easily and quickly attached and without extra screws or bolts; third, one adapted to right-and-left adjustment; fourth, to operate freely without interfering with other working parts of the type-writer. I attain these objects by the mechanism illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front elevation of the principal upper portion of a Remington type-writer with its carriage elevated in the position for reading the writing, detection and correction of errors, and showing my pointer device attached and in its extended position, non-essential and obscuring portions of the machine being removed. Fig. 2 is a plan view of a portion of the top of the type-writer with my pointer device attached thereto and in the position assumed when the carriage is lowered to its working position, all obscuring parts being removed. Fig. 3 is a transverse section of Fig. 1 on the line of  $xy$ . Fig. 4 is an edge view in elevation of one of the duplicate stay-bars. Fig. 5 illustrates the relative position of the parts and the platen of Fig. 3 above the line  $yz$  when the carriage is lowered to the writing position.

Similar letters and figures refer to similar parts in the several views.

In the drawings, A is the carriage-supporting frame of a Remington type-writer. A' A' are the front corner-posts. C is the rack. D is the carriage-track. E is the frame-support of the carriage pivot-shaft F. G is the platen. J is the scale, and B is a portion of the rear top plate of the machine, to which the slotted feet of the base-plate legs 1' 1' are secured by the machine-screws 2' 2'. The head projections 3' 3' of the said base-plate legs have fitted therein laterally conically pointed adjusting-screws 5 5, adapted to engage, adjust, and support the rocker-shaft 6, having secured thereto (transversely) the curved guide-tube 9, into which rod 9' is adapted to slide, the pointer-supporting rod 8' being maintained in position by its ends being secured in the upper ends of the duplicate stay-bars 8 8, having their lower ends securely but adjustably attached to the carriage-supporting pivot-shaft F. To the upper portion of the said sleeve 3 is hinged the pointer-finger 4, the extreme end being normally in contact with the platen G or the paper thereon by means of the spiral spring 4' and having an angle and a curvature adapted to the periphery of the platen G and the face of the scale J, as illustrated in Fig. 3.

For the purpose of forcing and retaining the cross-head O in proximity to the rocker-shaft 6 when the carriage is lowered to its writing position a spiral spring 9''



to the cross-head by means of the eye-screw O', secured therein, and to the guide-tube 9 by means of its encompassing band and perforated arm 7.

5 The adjusting-screws 5 5 are for the purpose of securing exact vertical alinement with the type impression on the paper and the extremity of the pointer-finger 4'. This is obtained by a right or left movement of the  
10 rocker-shaft 6 by means of the said adjusting-screws 5 5, the purpose of said pointer-finger being to indicate the exact location of the type-letter impression upon the platen or the paper thereon.

15 To attach my pointer device to the machine, first raise or elevate the carriage, loosen the two screws 2' 2', slip the slotted feet of the base-plate into place, and turn the screws down; second, place the stay-bars 8 8  
20 in position on the pivot-shaft F loosely; third, extend the pointer-supporting rod 8' through the sleeve 3 and the upper ends of the said stay-bars and tighten the screws, securing the said rod firmly in its proper position, and by means of the screws secure firmly  
25 the lower ends of the said stay-bars; fourth, by means of the adjusting-screws 5 5 move the rocker-shaft to the right or left until the point of the pointer-finger is immediately  
30 beneath the center of the type impression on the platen or the paper.

In operation the carriage is raised or elevated to the reading position, as in Fig. 1. If a wrong letter in a word should be discovered, erase the letter and move the carriage  
35 or rotate the platen until the place of the erased letter is immediately over the point of the pointer-finger, lower the carriage, and

strike the proper key or letter button to produce the desired letter or type impression on  
40 the paper.

In the present case for purposes of illustrating my device a Remington type-writer is used, though my pointer attachment is  
45 equally well adapted to other similar machines.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a type-writer, and in combination  
50 therewith, a pointer attachment, comprising a base-plate, having parallel legs, with slotted feet, head projections, adjusting-screws, a cross-bar and rocker-shaft, and a curved  
55 guide-tube, a guide-rod having a cross-head, a curved pointer-finger, and a spiral spring connecting the guide-tube and cross-head, substantially as described.

2. In a pointer attachment for type-writers, the combination with the pointer-finger of a  
60 curved guide-tube and guide-rod and means for operating the same, substantially as described.

3. In a pointer attachment for type-writers the combination with the base-plate having  
65 parallel legs with slotted feet, and a rocker-shaft with adjusting-screws, of a curved tube, a curved rod moving therein and a curved pointer-finger, substantially as described.  
70

In testimony whereof I affix my signature in presence of two subscribing witnesses.

CHARLES E. KELLEY.

Witnesses:

S. H. MILLER,

W. L. OVERHOLSER.