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INK LINE MAKING ATTACHMENT FOR TYPEWRITING MACHINES.

APPLICATION FILED DEC. 9, 1921.

1,433,453. Patented Oct. 24, 1922.

Fig. 1.

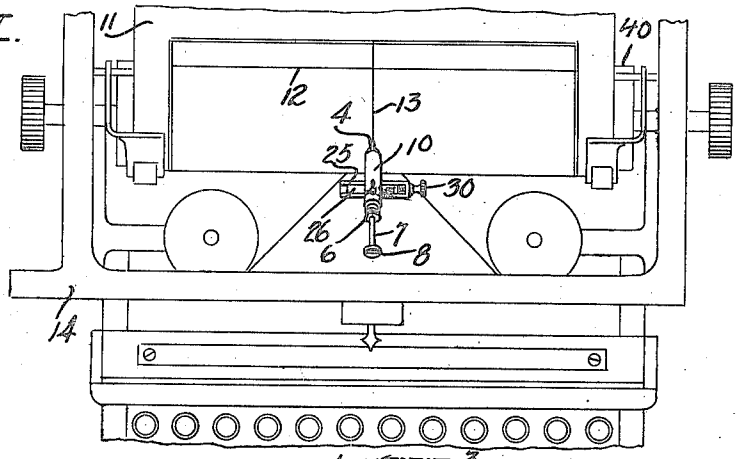


Fig. 2.

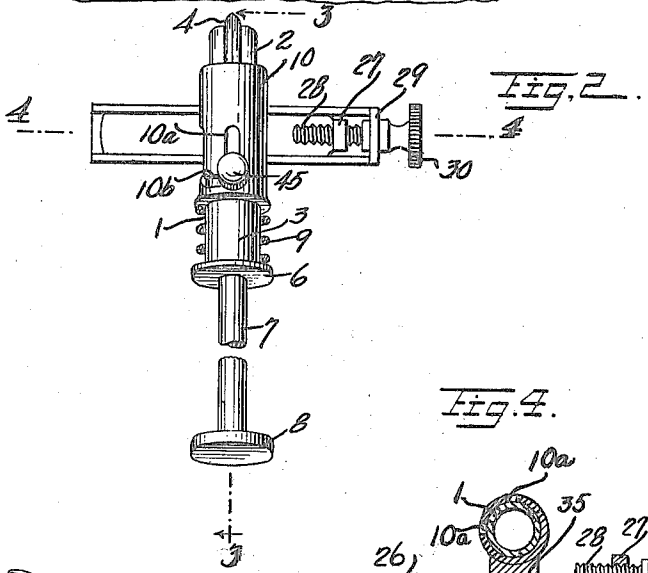


Fig. 5.

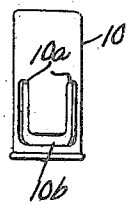


Fig. 3.

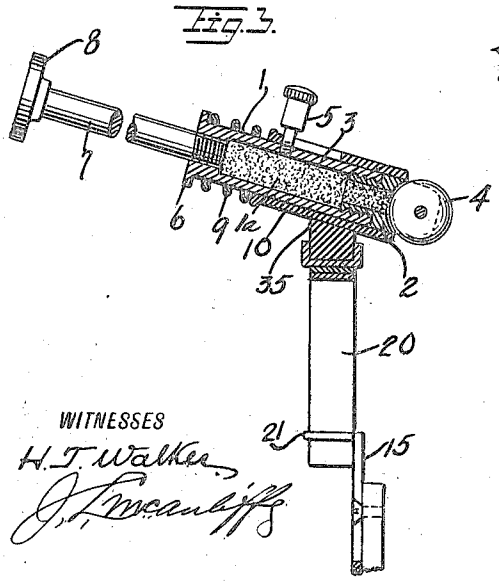
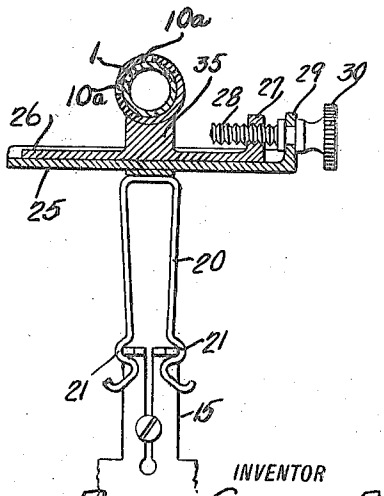


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

RICARDO GUERRERO P., OF VALPARAISO, CHILE.

INK-LINE-MAKING ATTACHMENT FOR TYPEWRITING MACHINES.

Application filed December 9, 1921. Serial No. 521,274.

To all whom it may concern:

Be it known that I, RICARDO GUERRERO P., a citizen of the Republic of Chile, and a resident of the city of Valparaiso, Chile, Province of Valparaiso, at Number 206 Salvador Donoso Street, have invented a new and useful Improvement in Ink-Line-Making Attachments for Typewriting Machines.

My invention relates to an ink-drawing device, as a further improvement to the line making attachment for typewriters, as described by this your applicant in application Serial No. 369207 filed in the United States Patent Office and allowed on February 23, 1921, an application which referred to an invention providing a line making attachment to trace pencil lines either horizontally or vertically, but not ink lines, which may be required for more permanen work.

Figure 1 is a plan view of my improved line making attachment applied to an Underwood typewriting machine and constructed for producing permanent lines in ink;

Figure 2 is an enlarged plan view of the ink line making attachment;

Figure 3 is a section on the line 3—3, Figure 2;

Figure 4 is a section on the line 4—4, Figure 2;

Figure 5 is a plan view of the slotted guide.

My present invention, relates to an ink-bearing device and tracer which takes the place of the stylus-like or writing implement in the attachment, as described in application No. 369,207, and consisting of a cylindrical box or tube 1, formed by two sections 2 and 3, screwed together, and bearing at one of its ends a tracer 4, formed by a small wheel of lenticular cross-section mounted on section 2 in such a way that its axle is perpendicular to the axis of the tube 1, and slightly projecting out of the end of section 2. Section 3, bears at its end 6, a rod or bar 7, screwed to the tube in the direction of its axis and having a head or button 8, and serves the rôle of presser of the implement against the paper when at work, by hand pressure brought to bear on the button end of the rod. Section 3 bears also a pin or screw 5 which goes into two slots cut in the guide 10 thus establishing the connection between the guide and the ink-bearing box 1, as in the case of the guide and holder of application No. 369207, but with the difference that the slots are two in this case, instead of one as in the former application. The two slots of the guide run parallel to the axis of the guide and tube and are connected by another slot perpendicular to the same axis, thus forming a U shaped slot, whose two parallel branches are situated on planes perpendicular one to the other. These arrangements are made in such a way as to allow the case or tube 1 to be placed in such a position that the pin 5 may go into one of the two parallel slots, in one of which the pin's position will be horizontal and in the other vertical with relation to the surface of the paper. The tracing wheel 4, will be also situated on a horizontal line in the first position and will trace horizontal lines on the paper, and will trace vertical lines on the paper, in the second position of the pin 5.

As in the case of application 369207 a spring 9 is also provided, situated between the pin 5 and the end 6 of the tube or case 1, serves the purpose of exerting a normal pressure on the holder or tracing implement and to yieldingly maintain the same out of contact with the work. The spring 9 is rolled on the outside of the tube or case 1 and situated at its upper end 6, as indicated. Within the case or tube 1, a piece of cotton or wadding 1^a is pressed down at its lower end and against the tracer or wheel 4, but in such a way as to allow the wheel to move more or less freely though in actual and continuous contact with the wad. The wadding or cotton is impregnated previously with some suitable ink, preferably the class used for stamp pads.

To apply the invention the tube or case is mounted on a line making attachment, as described in application No. 369207, but having care that said attachment be provided with the double slotted guide 10, as already described, which may be used either with the pencil or stylus-like implement described in application 369207 or with the ink-line making device herein described. The rod 7 is screwed at the end 6 of the case 1, and the pin 5 placed in either a vertical or a horizontal position to the paper, according to the lines that it is necessary to trace on the paper. The operator presses the button 8 of the rod 7 and the writing implement is brought forward and the wheel 4 brought in contact with the paper. Should the line

to be traced be vertical the pin 5 is placed in a vertical position, which brings the wheel or tracer 4 on a vertical line, and the roller of the typewriter is moved in the ordinary way. The line required being horizontal, the pin is placed horizontally and the wheel 4 brought to a horizontal line, pressed against the paper and the carriage of the typewriter run from side to side in the ordinary way. In both cases the wheel, being in continuous contact wth the ink impregnated wad 1ª will carry on its edge sufficient ink to trace a thin and clear line on the paper. When the device is not required for immediate work the pressure on the button 8 and rod 7 is released and the device taken out of contact with the paper by the spring 9.

Similar numbers refer to similar parts throughout the several views, in which: 1, is the case or tube; 2, the lower section bearing the wheel or tracer; 3, the upper section bearing the rod and pin: 4, the tracer or tracing wheel; 5, the pin or connecting screw; 6, upper end of tube or case, on which the rod is screwed: 7, pressing rod; 8, button of rod; 9, outward pressing spring, and 10, guide with U shaped slot.

The numeral 40 indicates the roller platen of a typewriter; 11, the paper to be written upon; 12 and 13, horizontal and vertical lines produced on the paper; and 14, the typewriter carriage. 15 indicates the stationary type bar guide of the machine; 20, the clip having clamp jaws 21 engaging the outer sides of the type bar guide; 25, a guideway on the clip at the top and approximately parallel with the roller platen 40; 26, a slide operating in said guideway; 27, a lug on the slide having threaded engagement with an adjusting screw 28 swivelled to an upturned lug 29 rigid with the guideway 25, the screw having a knurled head 30. 35 indicates a post on the slide 26, said post supporting the guide 10 with the two-part structure 2 and 3 therein, said parts, except the guide and structure 2 and 3, corresponding substantially with the similar parts in my above-named application.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a line-drawing device of the class described, a tracer wheel, means mounting said tracer wheel, said means comprising a sleeve presenting a U-shaped slot adjacent its center, a tubular member mounting said wheel movable in said sleeve, said tubular member acting as an ink receptacle and carrying an inking pad in contact with said wheel, and means on said tubular member projecting through said slot for changing the plane of said wheel on its axis.

2. In a line-drawing device of the class described, a sleeve presenting a U-shaped slot, a tubular member slidably and rotatably arranged in said sleeve, said tubular member being provided with detachable clamping means projecting through said slot whereby said tubular member may be turned on its axis by moving said clamping means from one leg of said U-shaped slot to the other, and a tracer wheel disposed at the front end of said tubular member with its axis transverse to the axis thereof.

3. In a line-drawing device of the class described, a tubular member carrying at the front end an ink pad and a tracer wheel in contact with the ink pad, and an operating pressing rod at the rear end, a sleeve presenting a U-shaped slot intermediate its ends movably mounting said tubular member, a spring surrounding said tubular member retracting the same rearwardly, and means on said tubular member coacting with said slot in said sleeve for turning the axis of said wheel in different positions at approximately right angles, together with means for sliding said sleeve in a plane transverse to the axis thereof.

4. In a line-drawing device of the class described, a tubular member carrying a tracer wheel, means for turning the axis of said wheel in different positions at approximately right angles, and means for displacing said tubular member in a plane transverse to its axis.

RICARDO GUERRERO P.