## Nov. 18, 1924.

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J. LINDBURG

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TYPEWRITING MACHINE

Filed Sept. 16, 1921





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# UNITED STATES PATENT OFFICE.

JOSEPH LINDBURG, OF BROOKLYN, NEW YORK, ASSIGNOR TO UNDERWOOD TYPE-WRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

#### TYPEWRITING MACHINE.

Application filed September 16, 1921. Serial No. 501,021.

5 city and State of New York, have invented workman to the typewriting machine, and, ing is a specification.

10 for ascertaining the correct position in which typewriting machine, a feature of the into place type-blocks on the type-bars of a vention is the provision of means whereby 60 typewriting machine; and for holding the the workman may temporarily substitute type-blocks in the determined correct posi- the same for the platen on the platen-shaft; tion while the type-bars are soldered or other- and may connect the same to the platen-shaft 15 wise affixed thereto. More particularly, the for angular adjustment therewith; and the invention is for use in connection with a provision of means, such as a ratchet, for 65 typewriting machine of the rotary-platen holding the platen-shaft and device thereon, class, in which the type-bars, each carrying against angular displacement. For attaining a type-block having one or more characters the correct setting of the anvil, a feature of 20 thereon, are pivoted to swing to the platen. the invention is the provision of a connecoriginally so positioned on the type-bars as flexibility of adjustment angularly, up and to print in proper alignment, and it is like- down, and backward and forward, of the wise equally important that when a type anvil may be had in a plane at right angle 25 gets out of alignment, or is to be replaced to the platen-shaft, and whereby, when any because injured or because a different char- type-block (selected for the purpose of set-75 acter is desired, the repositioning or replace- ting the anvil) is thrown by its bar against ment may be effected expeditiously by the the anvil, the latter may be brought to workman, with accuracy, and with a mini- position with a face or platform thereof flat 30 mum of trouble. Not only should the type- against the face of the type-block thus operblock be set upon the bar at an exact dis- ated, and with an aligning ledge on the anvil 80 tance or radius from the pivot of the bar, in engagement with the base of the typebut it should be set thereon at such an angle block so selected for setting purposes. A feaas to cause the type to strike flatly on the ture of the invention is therefore the use of 35 platen. Methods and devices heretofore a type, other than the type to be placed, as employed for this purpose, and especially as a means for positively ascertaining the cor- 85 used upon certain classes of machines, have rect position of the anvil,-thus eliminating involved manipulations such that accuracy in guess-work and experimentation.

To all whom it may concern: on the anvil, must print in true alignment 50 Be it known that I, JOSEPH LINDBURG, a with the other types. Another object of the citizen of the United States, residing in invention is the provision of means whereby Brooklyn Borough, in the county of Kings, the anvil may be affixed temporarily by the certain new and useful Improvements in when so affixed, be adjusted to the correct 55 Typewriting Machines, of which the follow- position, in which it is finally secured for the soldering operation.

1,516,233

The present invention relates to a device For the attachment of the device to the It is important that the type-blocks be tion of the anvil to its support, whereby 70

the setting of type-blocks has been obtainable  $\check{}$  A feature of the invention is the provision 40 only at the cost of undue time and trouble. of a temporary, or dummy, platen, when the An object of the present invention is the true platen has been removed by the work-90 provision of a type-block rest or anvil which man, which is mountable on the platen-shaft will hold the type-block against displace- alongside of the anvil-carrier, whereby, when ment in its ascertained correct position while the new type has been set upon its bar, that 45 the same is being soldered or otherwise affixed type may be tried out with other type, as a to the type-bar; and the provision of means check on the work, before the device is dis-95 whereby this type-rest or anvil may be readi- mounted from the typewriting machine. In ly adjusted to such position that any type- this try-out or checking operation, the typeblock, soldered to its bar while so in place writer-carriage is merely shifted to cause the

2

anvil to be moved from the printing point, 15, the heel 18 thereof is slotted or bifurand the try-out or dummy platen to be cated at 20 to have play on a stud 21 which brought to the printing point. passes through one of ears 17 and threads Other features and advantages will hereinto the other ear 17 (see Figure 3). The 5 inafter appear. fit of the heel 18 between the ears 17, and the 70 In the accompanying drawings, flexibility of the ears 17, are such that when Figure 1 is a view in side elevation, showthe stud is turned to tighten it, the ears 17 ing the device in operative relation to the will bind the heel 18, to hold the anvil in type-bars and type-guide. any adjusted position. The backward and Figure 2 is a front view of the parts shown 10 forward adjustment of the anvil may in part 75 in Figure 1, the temporary platen and carrybe effected by angular adjustment of the ing sleeve being partly in section to show the bracket 15 on the shaft 7. This angular admanner in which the same are mounted on justment of the bracket 15 is, however, more the platen-shaft. particularly employed for up-and-down ad-15 Figure 3 is a detail front view, showing justment of the anvil as a whole. At the 80 the mounting of the anvil on its supporting foot of the face or platform 22 of the anvil bracket. is an aligning ledge and rest 23 for the type-Figure 4 is a view in side elevation of a block 24. modified form of the device. In operation, assuming that a type is to Figure 5 is a front view of the device . 20 be changed or replaced, the workman first 85 shown in Figure 4. removes the old type from its bar 25. The Figure 6 is a longitudinal vertical sec- bars 25 are of sheet-metal, soldered at their tional view of the anvil shown in Figure 5. ends into slots 26 in the backs of the type-Figure 7 is a horizontal sectional view on blocks, and bent at their ends according to <sup>25</sup> the line 7—7 of Figure 5. the angles from which they strike. To re- 90 Referring to the drawings, the platenmove a type it is therefore only necessary to frame 1 is shown as having bearing pieces break the solder which holds the same to its 2 for a lengthwise-removable platen-shaft 3 bar. Before solder can be applied to affix carrying the usual hand-wheel 4. A platen another type to the bar, however, the proper 30 5, which the workman temporarily substi- position for the new type, both lengthwise 95 tutes for the usual platen, is fast on a hol- and angularly of the bar, must be deterlow roll 6, which in turn is fast to a hollow mined, and the new type must be held on the shaft or sleeve 7 through which the platen- anvil in its determined proper position for shaft 3 is passed. At one end, the platen the soldering operation. <sup>35</sup> roll 6 is provided with a ratchet 8, engaged When on the anvil, the face of the type is 100 by a detent 8<sup>a</sup>, for holding the platen to be flat against the anvil platform 22, and against rotary displacement. The ratchet 8 the base of the type-block to be squarely on has a hub 9 for centering the same in the the aligning ledge 23 thereof. The first step sleeve 7, and is secured to the roll 6 by screws is therefore properly to position the anvil 40 10. At its other end the roll 6 has a face so that any type thereon will be in proper 105 plate or metal flange 11 secured thereto by alignment with the other types, and, like the screws 12. Each end of the hollow shaft 7 latter, will strike the platen flatly. One of has a bushing 13 fitted into the same; and a the other types is accordingly employed in set screw 14 at the right-hand end passes positioning the anvil. The bracket 15 is po-45 through the sleeve 7 and bushing 13 to en-sitioned at the printing position on the shaft 110 gage the shaft 3, so that the platen may be 7, or the carriage is moved to bring the turned as a unit with the platen-shaft when bracket 15 to such position. With the screws the wheel 4 is turned. 16 and 21 loose, a type-key is depressed to As will presently appear, the platen 5 is bring its type-block against the anvil. 50 merely a try-out device to be employed by While the type-block is so held, the bracket 115 the workman to test his work after the op- 15 and anvil are moved on their pivots until eration of placing the type block on the the face of the type-block rests flatly against type-bar has been performed. The actual the anvil platform, and the lower edge of type-positioning tool or device is shown at the type-block rests squarely on the align-55 the right of the platen 5, at or near the cen- ing ledge 23 of the anvil. When this setting 120 ter of the hollow shaft or sleeve 7. It com- is obtained the screws 16 and 21 are tightened, prises an arm or bracket 15 which includes a and the type-key released. The anvil is then collar adjustable angularly on the shaft 7, ready for the operation of affixing the deand fixable on the latter by means of set- sired new type-block to its bar. The new 60 screws 16. Two wings or ears 17, integral block is placed upon the anvil with its face 125 with the collar portion 15, form a bifurca- flat against the platform 22 and its lower tion or yoke into which is set the heel 18 of edge squarely on the ledge 23. Thus held, a type-rest or anvil 19. In order that the the bar is swung up, inserted into the slot anvil 19 may be adjustable angularly, as in the back of the type-block, and the solder 65 well as backward and forward on the bracket applied. 130

To test the result, the platen-carriage is very fine vertical adjustment of the anvil then moved to bring the platen 5 to the may be obtained with little inconvenience, printing point, and the new type is printed and without involving any readjustment of with others of the types. Any inaccuracy in the brackets 30 and 33 after their angular much of the previous operation as may be Figure 1 form of the invention, the anvil necessary.

On completion of the operation, the engage the lower edge of the type-block. platen-shaft 3 is removed to permit removal the true or normal platen substituted for such equipment.

5 the work may be corrected by repeating so settings have once been made. As in the 70 is provided with an aligning ledge 47 to In operation, the form of the invention 10 therefrom of the workman's equipment, and shown in Figures 4 to 7 is much like that 75 of Figures 1 to 3. In the latter form, however, the angular movement of the bracket 30 on the shaft 7 is more for the purpose of effecting a forward-and-backward adjustment of the anvil as a whole than of effect- 80 ing any upward or downward adjustment of the anvil. The upward-and-downward adjustment of the anvil may be effected by the screw 44 and the angular adjustment of the anvil by means of its pivot on the stud 85 37. Therefore, after all other adjustments have been effected, and while the brackets 30 and 33 stand locked by their screws 31 and 37, a correction, upward or downward, of the position of the aligning ledge 47 may 90 be effected. 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 96 claim:

8

The drawings show draw-rods 26<sup>a</sup> for operating the type-bars from the keys, and a <sup>15</sup> type-guide 27 co-operating with guide-fingers 28 on the type-bars. These last are wellknown features acting in their usual way. In the form of the invention shown in Figures 4 to 7, inclusive, there is a bracket 20 30 angularly adjustable on the sleeve 7 and fixable thereon by means of set-screw 31 in the same manner as is the bracket 15 of the Figure 1 device. In this second form of the invention, however, the anvil 32 is <sup>25</sup> not directly supported upon the bracket 30, but is engaged upon a bracket 33, which is carried by the bracket 30. For supporting the bracket 33 on the bracket 30, the latter has two parallel spaced bifurcations <sup>30</sup> 34 to receive two ears 35 which are integral with the bracket 33; the ears 35 having slots 36 to receive a stud 37, which also passes through ears 38 which form the side walls

1. A device for positioning type-blocks on the type-bars of a typewriting machine, of the bifurcations 34 of the bracket 30, comprising an arm, a support on which the

<sup>3</sup> and which stud is threaded at one end, so arm is adjustable in a plane at right angles <sup>100</sup> that when tightened it will cause the ears to the platen, and a type-rest or anvil car-35 of the bracket 33 to be bound and held, ried by said arm and adjustable thereon against angular or backward or forward also in a plane at right angles to the platen, movement, by the ears 38 of the bracket 30. said device being positionable at the print-<sup>10</sup> The pin-and-slot connection, formed by the ing point; whereby, upon operation of a 105 slots 36 and stud 37, therefore, has the same type-bar, the type-block carried thereby may function, as to the positioning of the bracket strike the anvil, and the anvil-supporting 33 as has the pin-and-slot connection 20-21 arm and anvil be adjusted to cause the face in the Figure 1 form of the invention. of the type-block to lie flat thereon. 45 The bracket 33 has a front plate 39 against 2. A device for positioning type-blocks 110 which the anvil 32 rests, and the anvil is on the type-bars of a typewriting machine, slidable up and down on the front of the comprising an arm, a support on which the bracket-plate 39. To this end, the bracket- arms is adjustable in a plane at right angles plate 39 has secured thereto, by means of to the platen, and a type-rest or anvil car-50 screws 40, strips or plates 41 in which are ried by said arm and angularly adjustable 115 formed guideways for the side edges of the thereon also in a plane at right angles to anvil platform (see, Figure 7). At its up- the platen, said device being positionable per end the anvil has an offset 42 which at the printing point; whereby, upon operaprojects through an opening 43 in the tion of a type-bar, the type-block carried 55 bracket-plate 39, and which at the rear of thereby may strike the anvil, and the anvil- 120

the bracket-plate 39 is bifurcated to receive supporting arm and anvil be adjusted to a screw 44. The screw 44 is a thumb-screw, cause the face of the type-block to lie flat threaded into an offset 45 of the bracket 33, thereon. and grooved near its end to fit in the slot 3. A device for positioning type-blocks 60 or bifurcation in the offset 42 of the anvil, on the type-bars of a typewriting machine, 125 and thus to have shoulders which bear upon comprising an arm, a support on which the the offset 42; so that, as the screw 44 is arm is adjustable in a plane at right angles turned by its milled head 46, the anvil is to the platen, and a type-rest or anvil carmoved up or down on the front plate 39 of ried by said arm and backwardly and for-65 bracket 33. By means of the screw 44 a wardly adjustable thereon also in a plane 130

at right angles to the platen, said device being positionable at the printing point; whereby, upon operation of a type-bar, the type-block carried thereby may strike the 5 anvil, and the anvil-supporting arm and anvil be adjusted to cause the face of the uppe-block to lie flat thereon.

4. A device for positioning type-blocks on the type-bars of a typewriting machine, 10 comprising an arm, a support on which the arm is adjustable in a plane at right angles

the type-bars of a typewriting machine, comprising a bifurcated arm, a support on which the arm is adjustable in a plane at right angles to the platen, a type-rest or anvil having a slotted heel in the bifurca- 70 tion of said arm, and a screw passing through the bifurcation and loosely through the slot to permit adjustment of the anvil on the arm in a plane at right angles to the platen when the screw is loosened, but to 75 cause the anvil heel to be jammed and the to the platen, and a type-rest or anvil car- anvil held in adjusted position when the ried by said arm and backwardly, forwardly screw is tightened, said device being posiand angularly adjustable thereon also in a tionable at the printing point; whereby, upon 15 plane at right angles to the platen, said de- operation of a type-bar, the type-block car- 80 vice being positionable at the printing point; ried thereby may strike the anvil, and the whereby, upon operation of a type-bar, the anvil-supporting arm and anvil be adjusted type-block carried thereby may strike the to cause the face of the type-block to lie 20 anvil be adjusted to cause the face of the 9. A device for positioning type-blocks on 85 the type-bars of a typewriting machine, com-

anvil, and the anvil-supporting arm and flat thereon.

type-block to lie flat thereon.

5. A device for positioning type-blocks prising an arm, a support on which the arm on the type-bars of a typewriting machine, is adjustable in a plane at right angles to the comprising an arm, a support on which the platen, a type-rest or anvil carried by said 25 arm is angularly adjustable in a plane at arm and adjustable thereon also in a plane 90 right angles to the platen, and a type-rest or at right angles to the platen, a platform on anvil carried by said arm and adjustable said anvil for engagement with the faces of thereon also in a plane at right angles to the type-blocks, and an aligning ledge on the the platen, said device being positionable at anvil for the base of the type-blocks, said 80 the printing point; whereby, upon operation device being positionable at the printing 95 of a type-bar, the type-block carried thereby point; whereby, upon operation of a typemay strike the anvil, and the anvil-support- bar, the type-block carried thereby may ing arm and anvil be adjusted to cause the strike the anvil, and the anvil-supporting face of the type-block to lie flat thereon. arm and anvil be adjusted to cause the face 85 6. A device for positioning type-blocks of the type-block to lie flat on the platform 100 on the type-bars of a typewriting machine, with the base of the type-block on said aligncomprising an arm, a support on which the ing ledge. arm is adjustable in a plane at right angles 10. A device for positioning type-blocks to the platen, and a type-rest or anvil hav- on the type-bars of a typewriting machine, 40 ing a pin-and-slot connection to said arm for comprising an arm, a support on which the 105 adjustment thereon also in a plane at right arm is adjustable in a plane at right angles angles to the platen, said device being po- to the platen, an angularly adjustably bracket sitionable at the printing point; whereby, secured on said arm in a plane at right angles upon operation of a type-bar, the type-block to the platen, and a type-rest or anvil hav-45 carried thereby may strike the anvil, and the ing means for adjustment up and down 110 anvil-supporting arm and anvil be adjusted on said bracket, said device being positionto cause the face of the type-block to lie able at the printing point; whereby, upon operation of a type-bar, the type-block carflat thereon.

7. A device for positioning type-blocks on ried thereby may strike the anvil, and the 50 the type-bars of a typewriting machine, anvil-supporting arm and anvil be adjusted 115 comprising an arm, a support on which the to cause the face of the type-block to lie arm is adjustable in a plane at right angles flat thereon. to the platen, a type-rest or anvil having 11. A device for positioning type-blocks a pin-and-slot connection to said arm for on the type-bars of a typewriting machine, 55 adjustment thereon also in a plane at right comprising an arm, a support on which the 120 angles to the platen, and means for tighten- arm is manually adjustable in a plane at ing the pin to fix the adjusted position of right angles to the platen, a bracket adjustthe anvil on the arm, said device being po- able backwardly and forwardly on said arm sitionable at the printing point; whereby, in a plane at right angles to the platen, 60 upon operation of a type-bar, the type-block means for clamping said bracket in adjust- 125 carried thereby may strike the anvil, and ment, and a type-rest or anvil adjustably the anvil-supporting arm and anvil be ad- mounted to move up and down on said justed to cause the face of the type-block bracket, said device being positionable at the printing point; whereby, upon operato lie flat thereon. 8. A device for positioning type-blocks on tion of a type-bar, the type-block carried 130 65

thereon.

comprising an arm, a support on which the arm is adjustable in a plane at right angles to the platen, a bracket manually adjustable platen, means for clamping said bracket in the platform with the base of the type-block

thereby may strike the anvil, and the anvil- ing the bracket to be held in adjusted posisupporting arm and anvil be adjusted to tion, a type-rest or anvil adjustable up ond cause the face of the type-block to lie flat down on the bracket, means for actuating said anvil, a platform on said anvil for en-12. A device for positioning type-blocks gagement with the faces of the type-blocks, 70 on the type-bars of a typewriting machine, and an aligning ledge on the anvil for the base of the type-blocks; whereby, upon operation of a type-bar, the type-block carried thereby may strike the anvil, and the anvil-10 angularly, backwardly and forwardly on supporting arm and anvil be adjusted to 75 said arm in a plane at right angles to the cause the face of the type-block to lie flat on

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adjustment, a type-rest or anvil adjustable on said aligning ledge. up and down on said bracket, and means for 16. A device for positioning type-blocks

whereby, upon operation of a type-bar, the shaft when the platen is removed, means type-block carried thereby may strike the for securing said sleeve to the platen-shaft, anvil, and the anvil-supporting arm and a bracket on said sleeve, and a type-rest or 20 anvil be adjusted to cause the face of the anvil adjustable on said bracket; whereby, 85 type-block to lie flat thereon.

on the type-bars of a typewriting machine, and the anvil be adjusted to cause the face comprising an arm, a support on which the 25 arm is adjustable in a plane at right angles to the platen, a bracket having slotted ears adjustable angularly on said arm in a plane at right angles to the platen, and a type-rest or anvil having a screw connection to said 30 bracket for adjusting the same up and down thereon.

on the type-bars of a typewriting machine, tion of the type-bars, the type-blocks car-comprising an arm having a pair of slots ried thereby may strike the anvil, and the

15 moving said anvil therealong, said device on the type-bars of a typewriting machine, 80 being positionable at the printing point; comprising a sleeve mountable on the platenupon operation of the type-bars, the type-13. A device for positioning type-blocks blocks carried thereby may strike the anvil, of the type-block to lie flat thereon.

17. A device for positioning type-blocks 90 on the type-bars of a typewriting machine, comprising a sleeve mountable on the platen-shaft when the platen is removed, means for securing said sleeve to the platenshaft, a bracket adjustable lengthwise of 95 said sleeve, and a type-rest or anvil adjust-14. A device for positioning type-blocks able on said bracket; whereby, upon opera-

35 therein, a support on which the arm is an- anvil be adjusted to cause the face of the 100 gularly adjustable in a plane at right angles type-block to lie flat thereon. to the platen, a bracket having a pair of 18. A device for positioning type-blocks ears extending into the slots in said arm, a screw extending through said arm and provide a pin-and-slot connection between said arm and said bracket for back-andforth and angular adjustment of the bracket on the arm, said screw when tightened caus-45 ing the bracket to be held in adjusted position, a type-rest or anvil adjustable up and down on the bracket, and means for actuating said anvil, whereby, upon operation of a type-bar, the type-block carried thereby may strike the anvil, and the anvil-supporting arm and anvil be adjusted to cause the face of the type-block to lie flat thereon. 15. A device for positioning type-blocks on the type-bars of a typewriting machine,

on the type-bars of a typewriting machine, comprising a sleeve mountable on the platenloosely through slots in said bracket-ears to shaft when the platen is removed, means for 105 securing said sleeve to the platen-shaft, a bracket angularly adjustable on said sleeve, and a type-rest or anvil adjustable on said bracket; whereby, upon operation of the type-bars, the type-blocks carried thereby 110 may strike the anvil, and the anvil be adjusted to cause the face of the type-block to lie flat thereon.

19. A device for positioning type-blocks on the type-bars of a typewriting machine, 115 comprising a sleeve mountable on the platen. shaft when the platen is removed, means for securing said sleeve to the platen-shaft, a bracket angularly adjustable on said sleeve, 55 comprising an arm having a pair of slots and a type-rest or anvil angularly adjust-120 tion of the type-bars, the type-blocks carried thereby may strike the anvil, and the anvil be adjusted to cause the face of the type-block to lie flat thereon. 125 20. A device for positioning type-blocks on the type-bars of a typewriting machine,

therein, a support on which the arm is an- able on said bracket; whereby, upon operagularly adjustable in a plane at right angles to the platen, a bracket having a pair of ears extending into the slots in said arm, a screw extending through said arm and loosely through slots in said bracket-ears to provide a pin-and-slot connection between said arm and said bracket for back-and- comprising a sleeve mountable on the forth and angular adjustment of the bracket platen-shaft when the platen is removed, 65 on the arm, said screw when tightened caus- means for securing said sleeve to the platen- 130

#### shaft, a bracket angularly adjustable on said sleeve, and a type-rest or anvil having a pin-and-slot connection to said bracket; whereby, upon operation of the type-bars, 5 the type-blocks carried thereby may strike the anvil, and the anvil be adjusted to cause the face of the type-block to lie flat thereon. 21. A device for positioning type-blocks on the type-bars of a typewriting machine, 10 comprising a sleeve mountable on the platenshaft when the platen is removed, means for ratchet fast to said sleeve for engagement bars.

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at one side of said bracket for testing the alignment of the inserted type-block. 25. A typewriting machine having pivoted type-bars and type-blocks, a device for positioning the type-blocks on the type-bars, 70 and a temporary try-out platen for testing the type so positioned.

26. A typewriting machine having pivoted type-bars, a platen-shaft, means for removably attaching a platen to the shaft, 75 and a device removably attached to the shaft securing said sleeve to the platen-shaft, a for positioning type-blocks on the type-27. A typewriting machine having pivmovably attaching a platen to the shaft, a device removably attached to the shaft for positioning type-blocks on the type-bars, and a temporary try-out platen removably affixed to the shaft at one side of said posi-85

with a detent on the typewriting machine 15 to hold the sleeve after angular displace- oted type-bars, a platen-shaft, means for re- 80 ment, a bracket on said sleeve, and a typerest or anvil adjustable on said bracket; whereby, upon operation of the type-bars, the type-blocks carried thereby may strike 20 the anvil, and the anvil be adjusted to cause the face of the type-block to lie flat thereon. 22. A device for positioning type-blocks on the type-bars of a typewriting machine, comprising a sleeve mountable on the platenshaft when the platen is removed, means for securing said sleeve to the platen-shaft, a bracket on said sleeve, a type-rest or anvil adjustable on said bracket; whereby, upon operation of the type-bars, the type-blocks 30 carried thereby may strike the anvil, and the anvil be adjusted to cause the face of the type-block to lie flat thereon, and a shortlength platen fast to said sleeve at one side

tioning device. 28. A typewriting machine having pivoted type-bars, a platen-carriage and platenshaft thereon, a type-rest or anvil removably attached to the shaft and adapted to 90 be engaged by the type when the type-bars are swung to the printing point, and means for adjusting the anvil to such position that the face of any type swung thereto will lie flat thereon. 95

29. A typewriting machine having pivoted type-bars, a platen-carriage and platenshaft thereon, a type-rest or anvil removably of said bracket for testing the alignment of attached to the shaft and adapted to be en-35 the inserted type-block. gaged by the type when the type-bars are 100 23. A device for positioning type-blocks swung to the printing point, a device on the on the type-bars of a typewriting machine, anvil for aligning the base of the type, and comprising a sleeve mountable on the means for adjusting the anvil to such posiplaten-shaft when the platen is removed, tion that the face of any type swung thereto 40 means for securing said sleeve to the platen- will lie flat thereon with its base in registra- 105 shaft, a bracket on said sleeve, a type-rest tion with said aligning device. or anvil adjustable on said bracket; where-30. A typewriting machine having pivby, upon operation of the type-bars, the oted type-bars, a platen-carriage and platentype-blocks carried thereby may strike the shaft thereon, a type-rest or anvil remov-45 anvil, and the anvil be adjusted to cause the ably attached to the shaft and adapted to 110 face of the type-block to lie flat thereon, and be engaged by the type when the type-bars a short-length platen, of the diameter of the are swung to the printing point, means for true platen, fast to said sleeve at one side adjusting the anvil to such position that the of said bracket for testing the alignment of face of any type swung thereto will lie flat the inserted type-block. 50 thereon, and a try-out platen removably at- 115 24. A device for positioning type-blocks tached to the shaft. on the type-bars of a typewriting machine, 31. A front-strike typewriting machine, comprising a sleeve mountable on the comprising pivoted type-bars mounted to platen-shaft when the planten is removed, swing to typing positions, and a gage for 55 means for securing said sleeve to the platen- locating type-blocks in typing position at 120 shaft, a ratchet fast to said sleeve for en- the common printing point of the machine gagement with a detent on the typewriting for securement to the type-bars, the armachine to hold the sleeve after angular rangement being such that each type-block displacement, a bracket on said sleeve, a secured to its type-bar in gaged position type-rest or anvil adjustable on said bracket; will be mounted to print correctly at the 125 whereby, upon operation of the type-bars, common printing point. the type-blocks carried thereby may strike 32. A typewriting machine comprising the anvil, and the anvil be adjusted to cause type-bars, means supporting said type-bars the face of the type-block to lie flat thereon, for swinging movement to a common print-05 and a short-length platen fast to said sleeve ing position, a type-guide for exactly locat- 130

1,516,233

erence to the printing point of the machine be mounted to print correctly at the comin printing position, and a gage for locating type-blocks exactly at the printing point for Securement to the type-bars, the arrange-ment being such that each gaged type-block secured to its type-bar in the position of the

ing the outer ends of the type-bars with ref-type-bar determined by the type-guide will mon printing point.

JOSEPH LINDBURG.

Witnesses:

MARION R. MCCAFFREY, JENNIE P. THORNE.

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