

H. S. McCORMACK.
TYPE WRITING MACHINE.
APPLICATION FILED NOV. 18, 1907.

948,481.

Patented Feb. 8, 1910.

4 SHEETS—SHEET 1.

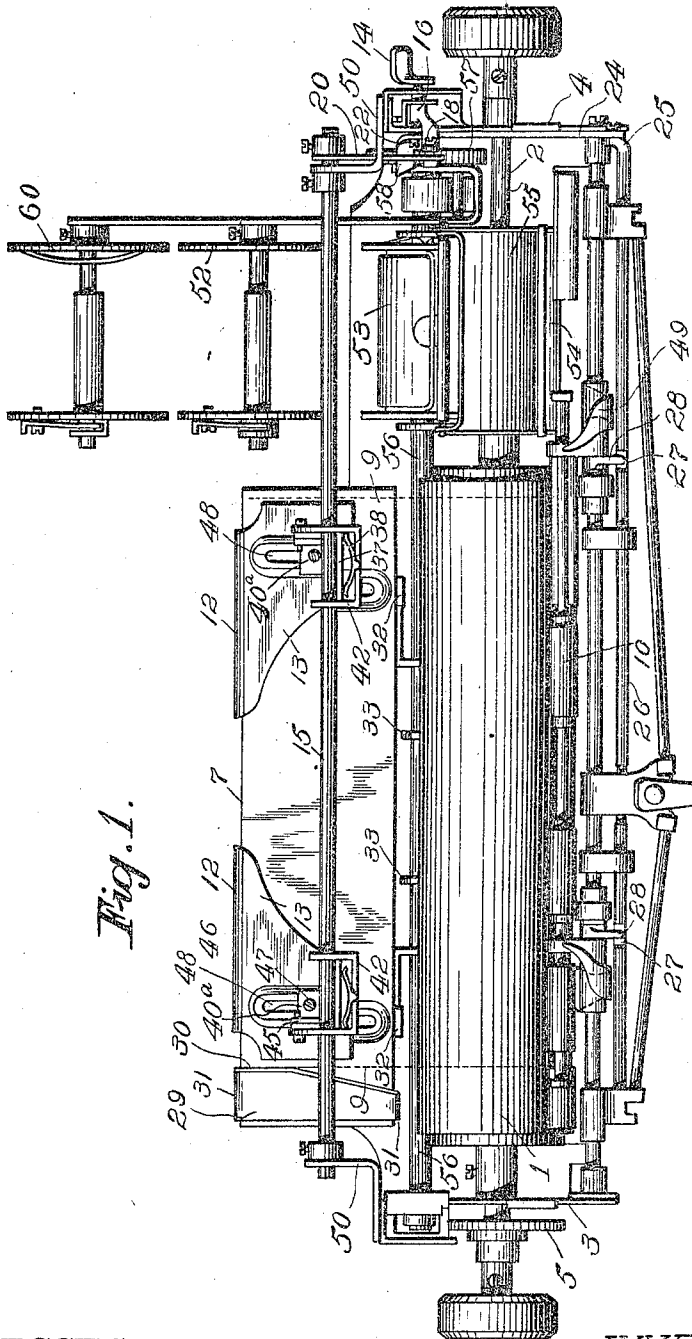


Fig. 1.

WITNESSES.
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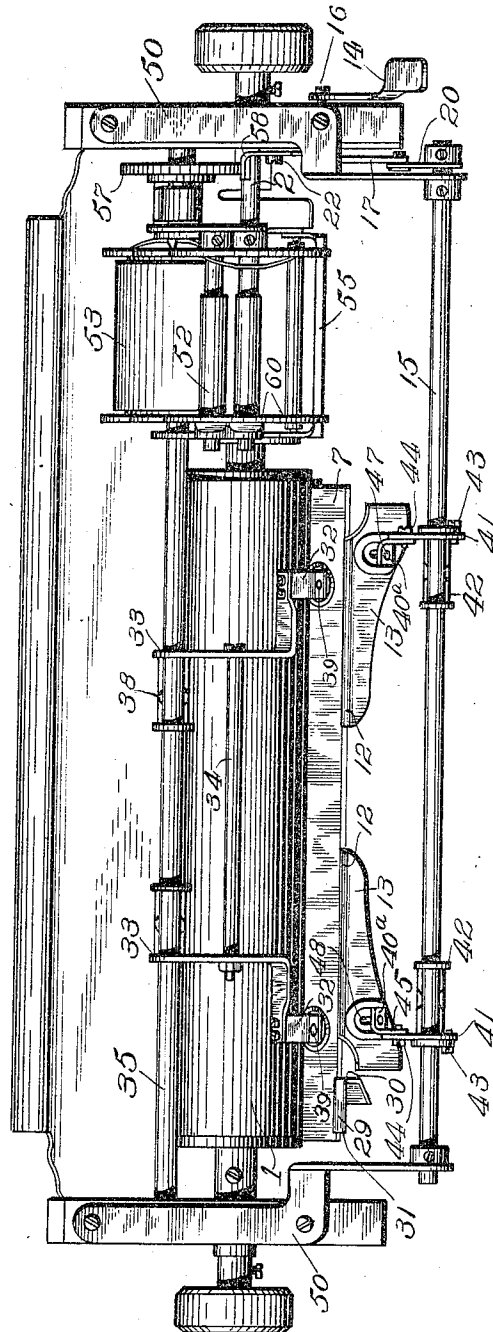
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4 SHEETS—SHEET 2.

Fig. 2.



WITNESSES.

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4 SHEETS—SHEET 3.

Fig. 3.

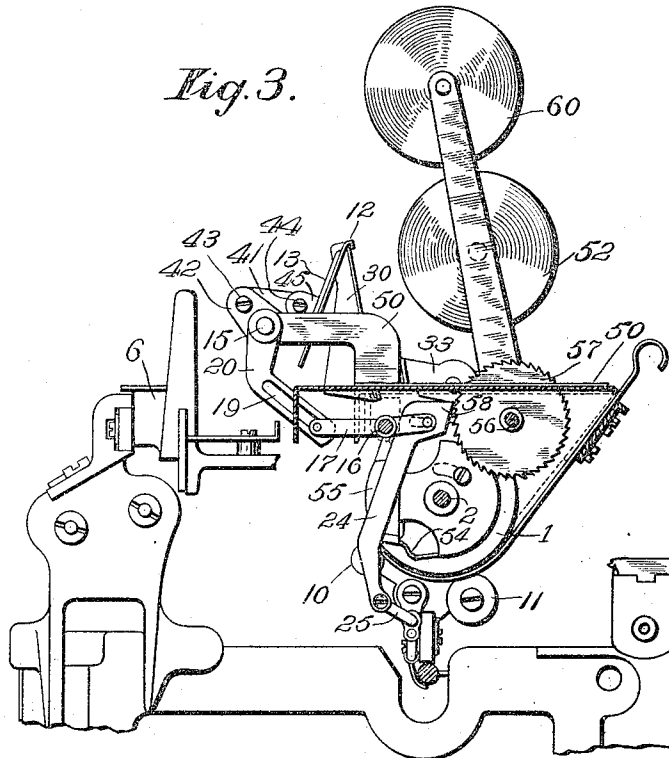
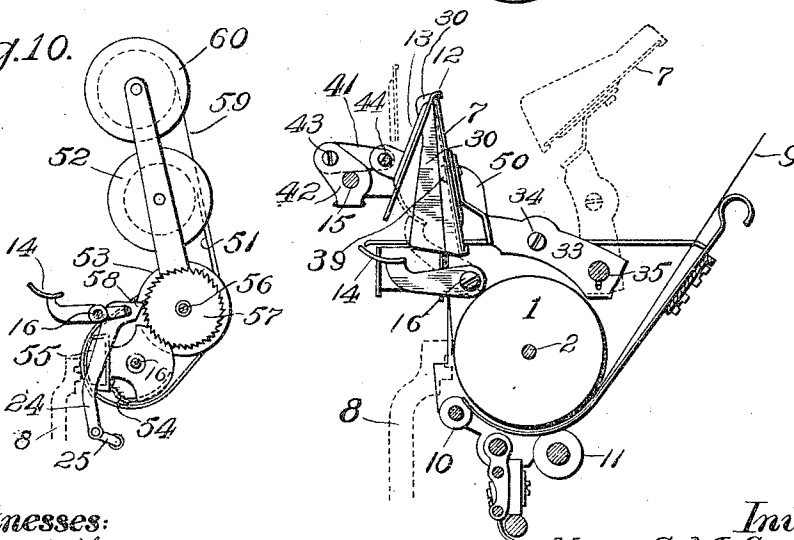


Fig. 10.



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Fig. 4.

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4 SHEETS—SHEET 4.

Fig. 5.

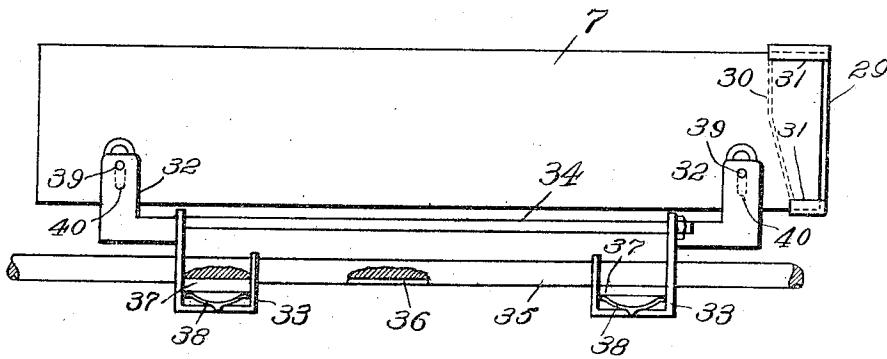


Fig. 6.

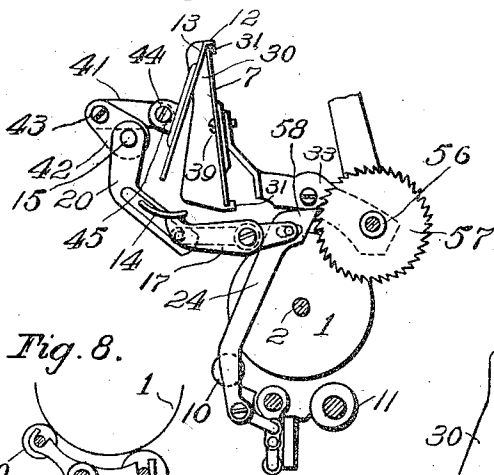


Fig. 8.

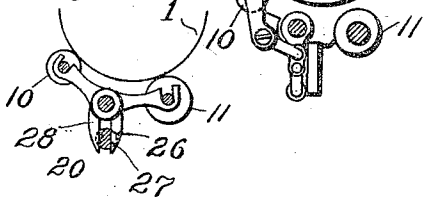


Fig. 7.

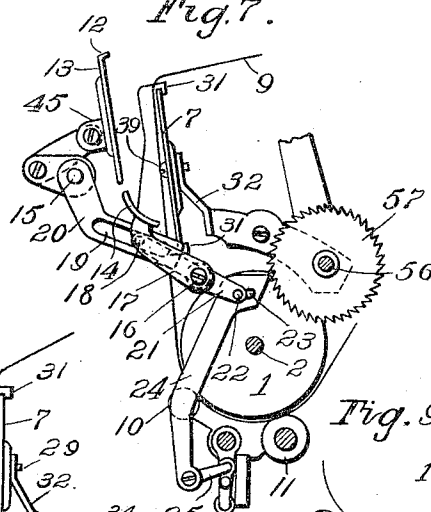


Fig. 9.

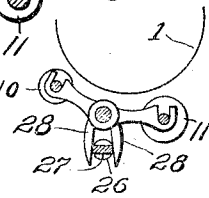
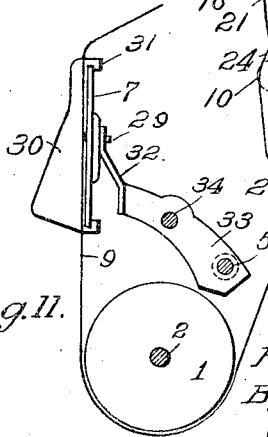


Fig. 11.



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UNITED STATES PATENT OFFICE.

HARRY S. McCORMACK, OF NEW YORK, N. Y., ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

TYPE-WRITING MACHINE.

948,481.

Specification of Letters Patent.

Patented Feb. 8, 1910.

Application filed November 18, 1907. Serial No. 402,583.

To all whom it may concern:

Be it known that I, HARRY S. McCORMACK, a citizen of the United States, residing in New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to paper-controlling devices of typewriting machines, and particularly to those of the front strike variety.

One of the principal objects of the invention is to provide means for readily and accurately adjusting the sheet both endwise and sidewise with reference to the printing point, before the writing begins. In carrying out this portion of the invention, I provide, a tablet or plate standing on edge above the front portion of the platen and above the printing point, upon which the sheet can readily be adjusted while not clamped by the usual paper rolls which run upon the platen. At the top of the tablet, I provide a stop to which the top edge of the sheet may be set, and I arrange to move this stop out of the way to permit the sheet to advance line by line. A directrix is provided for guiding the leading edge of the sheet up to the stop. The key that is connected to the pressure rolls that run upon the platen, for releasing said rolls, is also connected to said directrix and stop, so that the latter are thrown into operative position when the rolls are released and vice versa. Upon the tablet, I also provide a gage for the left hand edge of the sheet. The tablet and directrix may be adjusted along the platen to accommodate different widths of sheets or for other purposes; and this feature of the invention is especially useful in connection with tally strip mechanism provided at the end of the platen, since the tablet may be moved over in front of the tally strip, and the amounts written upon the side edge of the main sheet may be also imprinted upon the tally strip by the use of an interposed carbon strip. The gage for the side edge of the paper is adjustable along the platen independently of the tablet.

Other features and advantages will hereinafter appear.

In the accompanying drawings, Figure 1 is a front elevation of the platen frame of an "Underwood" typewriting machine provided with my improvements; the pressure roll

release key being shown depressed. Fig. 2 is a plan of the same, the parts being in position for gaging the leading edge of the sheet, as at Fig. 1. Fig. 3 is a part sectional view of one end of the machine, the parts being in the same position. Fig. 4 is a view showing certain of the parts seen at Fig. 3. Fig. 5 is a rear view of the paper adjustment tablet at the front of the platen. Fig. 6 is a view illustrating the connection between the pressure roll mechanism, the tally strip winding mechanism and the paper-gaging mechanism, the key being shown depressed. Fig. 7 is a view similar to Fig. 6, but showing the key elevated and the rolls running upon the platen. Figs. 8 and 9 show the normal operative positions of a roll-releasing rock shaft. Fig. 10 is a diagram of the tally and carbon strip winding means. Fig. 11 is the preferred form showing the paper adjustment frame as mounted vertically, and about tangential with the printing line on the platen.

The cylindrical platen 1 is mounted by means of an axle 2 in the ends 3, 4, of a platen frame; the platen having the usual line space wheel 5. The platen frame is mounted upon a carriage, a portion of which is seen at 6, Fig. 3. Mounted on edge in front of the platen is a tablet 7, which, it will be seen is nearly vertical, inclining upwardly and a little forwardly and standing above the front side of the platen and over the point where the type bars 8 strike the paper. A bill or sheet of paper 9 is inserted behind the platen and around the under side of the same while the usual pressure rolls 10, 11, are released, and the operator may by touching the upper portion thereof with his finger slide it upon the tablet 7 until the top edge of the sheet coincides with the top edge of the tablet, whereby the sheet is brought to the exact position to receive the first line of writing, this being a substantial advantage in writing bills and certain other papers. To facilitate the adjustment of the leading edge of the sheet, I provide stops 12, which taken together may be regarded as forming a single stop. These stops, when in operation, rest upon the top edge of the tablet or plate 7. They are formed upon the upper portions of a pair of directrices 13 which taken together may be regarded as a single directrix. These directrices incline rearwardly from their lower to their upper portions, and serve to guide the leading edge

of the sheet to the line of contact between them and the plate 7, that is, up against the stops 12, and reduce substantially the amount of manipulation required to adjust the sheet.

9. It will be seen that sufficient space is left between the directrices 13 to permit the operator to obtain access to the paper with his finger to adjust the same. Before inserting a sheet, the operator depresses the key 14 from the Fig. 7 to the Fig. 6 position, thereby rocking a shaft 15 which carries the directrices 13 forwardly from the idle position, Fig. 7, to the position of use, at Fig. 6. Said key 14 is mounted upon a key shaft 16 which has an arm 17 provided with a pin 18 to engage a slot 19 formed in an arm 20 secured upon the rock shaft 15. To said key shaft 16 is also secured an arm 21 having a pin 22 to engage a slot 23 formed in the upper end of a link 24 to lift the latter, thereby rocking an arm 25 and releasing the pressure rolls 10, 11 in a well known manner; said arm 25 being formed upon a rock shaft 26 having flats 27 to engage roll releasing arms 28, as usual upon the Underwood type-writing machine; so that the movement of the key both releases the rolls to permit the free insertion and manipulation of the sheet and moves said directrix 13 and stop 12 to operative position. As soon as the sheet is adjusted, Figs. 1 and 4, the key is thrown back to normal position, thereby causing the pressure rolls to bite the sheet, and at the same time throwing forward the directrix 13 to a position of disuse, so as to permit the sheet to pass up beyond the same and back out of the machine, Fig. 7. As soon as the sheet is written, the key 14 is again depressed to permit removal of the sheet and insertion of another sheet, and the operation is repeated.

Upon the left hand end of the tablet 7 is mounted a clip 29 having on its right hand edge a gage 30 for the side edge of the sheet, said gage being in the form of a flange, said flange being continued downwardly toward the left from said gage, Fig. 1, to form a directrix for the side edge of the sheet. The clip 29 has claws 31 to catch upon the top and bottom edges of the tablet and permit the gage to be slid along the tablet to suit the width of the sheet to be written.

The tablet 7 is mounted upon a frame comprising arms 32 connected to or formed upon brackets 33, said arms or brackets being also connected by a tie-rod 34. The brackets are adjustable along a rod 35 secured at its ends to the ends 3, 4 of the platen frame and having a groove 36 to receive key rolls 37 pressed by springs 38. By pressing back the tablet, the resistance of the springs 38 may be overcome and the keys 37 forced out of the grooves 36 and the tablet thrown back to a position of disuse, as seen in dotted lines at Fig. 4. The tablet

and its supporting frame may be slid along the rod 35 lengthwise of the platen, which is an advantage especially where the platen is substantially longer than the tablet, or where a narrow sheet is to be written.

In order to enable the machine to be used for different kinds of bill heads and to enable the latter to be brought always to the exact point at which the writing is to begin, I provide for adjusting the tablet 7, and the stop 12 up and down so that the initial position of the sheet may be varied as required. I connect the plate 7 to the arms 32 by means of screws 39 fastened through vertical slots 40 in the tablet 7. By loosening the screws, the tablet is released, and may be lifted or dropped and then fastened again by the screws. It will be understood that either end of the tablet may be raised or lowered independently of the other end, so as to bring the top edge of the tablet into parallelism with the platen 1.

In order to raise and lower the directrix 13, and its stop 12, I mount the directrix by means of an arm 41 upon a bracket 42 secured to the rock shaft 15. The arm 41 is connected by a screw 43 to the bracket 42, so that when the screw is loosened the arm may be turned up or down to raise or lower the directrix, and a similar connection is made by a screw 44 to an ear 45 provided upon the directrix, thus permitting the directrix to be tipped as well as raised or lowered. Hence, after the plate 7 has been adjusted to the proper height, the directrix may be adjusted to match and may also be tipped to the right inclination, and then both screws 43 and 44 tightened. The ear 45 may have a flange 40 to receive the shank of a screw 47 working in a vertical slot 48 in the directrix, to permit further up and down adjustment of the latter.

It will be understood that the release key 14 is held mechanically in the depressed position, Fig. 6, owing to the engagement of the roll-releasing arms 28 with the peripheral portion of the rock shaft 26, Fig. 9, whereby the roller springs 49 are prevented from moving the arms 28 toward each other. Thus it will be understood that the directrix 13 and stop 12 are mechanically maintained in working position, so that both hands of the operator are left free to insert and manipulate the sheet.

The rock shaft 15 is mounted on a pair of arms 50 carried upon the platen frame ends, and this rock shaft and the rod 35 are sufficiently long to enable the directrices 13 and the plate 7 to be slid over to the right to stand in front of the tally strip rolls and devices seen in the drawings, so that by the use of an interposed carbon strip the amounts written on the right hand portion of the bill may be simultaneously imprinted through the carbon upon the tally strip.

The brackets 42 may be keyed to the rock shaft 15 in the same manner as already described with reference to the bracket 33; or any other suitable connection will answer.

5 The tally strip 51 is unwound from a spool 52 and carried down around a spool 53 and an apron 54, and up around the front side of a stationary platen 55 and back to the spool 53, which is mounted upon a shaft 56
10 carrying a ratchet wheel 57 operated by a dog 58 formed upon the upper end of the link 24, so that the ratchet wheel and spool 53 are turned to advance the tally strip when the key 14 is depressed, and hence the
15 feeding of the tally strip is assured. A carbon strip 59 may be carried from a spool 60 down around behind the tally strip and up in front of the same to transmit the type impressions to the tally strip.

20 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 claim:

25 1. In a front strike writing machine, the combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same and extending therealong, upon which the paper
30 may be adjusted after insertion thereof into the machine; said plate having a part in position to register with the leading edge of the sheet when the latter is in position to receive the first line of writing, and
35 means for adjustably supporting said plate, to permit it to be raised or lowered to vary the initial adjustment of the sheet of paper; one end being adjustable up and down independently of the other end.

40 2. In a front strike writing machine, the combination with a revoluble platen, rolls to feed the paper around the platen, a platen frame, and a rod mounted in the platen frame and extending along the rear upper
45 portion of the platen, of a frame mounted on said rod and extending forwardly and comprising a narrow vertical plate extending along the front of the platen, upon which to
50 adjust the paper; a gage being provided in connection with said plate for enabling the operator to square the leading edge of the paper thereon; said frame being rotatable
55 backwardly about said rod to move said plate to an idle position back of the platen.

60 3. In a front strike writing machine, the combination with a revoluble platen, of a plate mounted vertically on edge above the platen at the top thereof, and having a stop to which the operator may square the leading edge of the paper, and a directrix extending forwardly and downwardly from
said stop for guiding the paper upwardly along said plate before it is squared to the stop.

4. In a front strike writing machine, the 65 combination with a revoluble platen, of a plate on edge and extending along the front of the platen and rising above the same, upon which the paper may be adjusted by the operator, a stop for the leading edge of 70 the paper, and means for moving said stop away from the plate.

5. In a front strike writing machine, the combination with a revoluble platen, of a 75 plate on edge and extending along the front of the platen and rising above the same, upon which the paper may be adjusted by the operator, a stop for the leading edge of the paper, said stop normally occupying an idle position in front of said plate and sufficiently 80 distant therefrom to permit passage of paper past said plate, and means for moving said stop rearwardly to said plate and forwardly to normal position.

6. In a front strike writing machine, the 85 combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same about tangentially thereof and extending therealong, and occupying a position between the paper 90 and the platen, to form a rest along which the paper may be adjusted forwardly after insertion thereof into the machine, a normally idle stop above said plate, and means to move said stop into position to arrest the 95 leading edge of the sheet at the proper point to receive the first line of writing, and back to normal position, to permit progress of the sheet past said stop.

7. In a front strike writing machine, the 100 combination with a revoluble platen, of a table or rest above the platen upon which to square the leading edge of the paper, a normally idle stop above the front side of the platen to coöperate with said table, means to 105 move said stop into position to arrest the leading edge of the sheet at the proper point to receive the first line of writing and back to normal position, and means for adjusting said stop up and down to vary the initial 110 writing position of the paper.

8. In a front strike writing machine, the combination with a revoluble platen, of a 115 table or rest above the platen upon which to square the leading edge of the paper, a normally idle stop above the front side of the platen to coöperate with said table, means to move said stop into position to arrest the leading edge of the sheet at the proper point to receive the first line of writing and back 120 to normal position, and a gage for the side edge of the paper to coöperate with said stop to position the paper properly in the machine.

9. In a front strike writing machine, the 125 combination of a revoluble platen, a plate or tablet arranged vertically on edge over the upper front side of the platen, and a

stop in front of said plate and normally separated therefrom, and movable rearwardly to the upper edge of said plate.

10. In a front strike writing machine, the combination with a revoluble platen, of a plate or tablet arranged vertically on edge over the upper front side of the platen, a stop in front of said plate and normally separated therefrom, and movable rearwardly to the upper edge of said plate, and a gage for the side edge of the sheet mounted upon said plate.

11. In a front strike writing machine, the combination of a revoluble platen, a plate or tablet arranged vertically on edge over the upper front side of the platen, and a stop in front of said plate and normally separated therefrom, and movable rearwardly to the upper edge of said plate, the latter being adjustable along the platen.

12. In a front strike writing machine, the combination with a revoluble platen, of a plate or tablet arranged vertically on edge over the upper front side of the platen, and a stop in front of said plate and normally separated therefrom, and movable rearwardly to the upper edge of said plate; both said plate and said stop being adjustable along the platen.

13. In a front strike writing machine, the combination with a revoluble platen and a tablet or plate erected thereover and adjustable along the platen, of a gage for the side edge of the paper adjustable with said tablet, and a stop for the leading edge of the paper, said stop movable into and out of working position.

14. In a front strike writing machine, the combination of a revoluble platen and a plate or tablet erected over the front side of the platen upon which to adjust the paper, a stop for the leading edge of the paper normally separated from said plate, and means for effecting relative closing and opening movement between said plate and said stop, first to enable the sheet to be set against the stop, and then to permit the sheet to advance past the stop.

15. In a front strike writing machine, the combination of a revoluble platen, a plate or tablet erected over the front side of the platen upon which to adjust the paper, a stop for the leading edge of the paper normally separated from said plate, and means for effecting relative closing and opening movement between said plate and said stop, first to enable the sheet to be set against the stop, and then to permit the sheet to advance past the stop; a gage being provided for the side edge of the sheet, and means being provided for permitting adjustment of said side gage along the platen.

16. In a front strike writing machine, the combination of a revoluble platen and an adjusting tablet erected on edge over the

front side of the platen and extending therealong, a stop for the leading edge of the paper, a key having means to effect relative movement of said stop and tablet one to the other, and means for mechanically detaining the movable member in effective position to permit the leading edge of the sheet to be set against the stop.

17. In a front strike writing machine, the combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same about tangentially thereof and extending therealong, and occupying a position between the paper and the platen, to form a rest along which the paper may be adjusted forwardly after insertion thereof into the machine, a stop above said plate, against which the leading edge of the paper may be set, a pressure roll for feeding paper around the platen, and means connecting said pressure roll and said stop, to cause either to be ineffective while the other is effective.

18. In a front strike writing machine, the combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same about tangentially thereof and extending therealong, and occupying a position between the paper and the platen, to form a rest along which the paper may be adjusted forwardly after insertion thereof into the machine, a stop above said plate, against which the leading edge of the paper may be set, a pressure roll for feeding paper around the platen, and a key connected to said pressure roll and to said stop to release the roll and render the stop effective, and also to render the stop ineffective while restoring the roll.

19. In a front strike writing machine, the combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same about tangentially thereof and extending therealong, and occupying a position between the paper and the platen, to form a rest along which the paper may be adjusted forwardly after insertion thereof into the machine, a stop above said plate, against which the leading edge of the paper may be set, a pressure roll for feeding paper around the platen, and a key connected to said pressure roll and to said stop to release the roll and render the stop effective, and also to render the stop ineffective while restoring the roll; means being provided to detain mechanically the roll in the released position and the paper adjustment device in effective position.

20. In a front strike writing machine, the combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same and extending therealong, upon which the paper may be adjusted after insertion thereof into the machine, and a tally strip roll provided

at one end of the platen, said plate being movable endwise from a position in front of the tally strip roll to a position wholly to one side of said tally strip roll.

21. In a front strike writing machine, the combination with a revoluble platen, a platen frame, and a rod mounted in the platen frame and extending along the rear upper portion of the platen, of a frame mounted on said rod and extending forwardly and comprising a narrow vertical plate extending along the front of the platen, upon which to adjust the paper; means being provided for enabling the operator to square the leading edge of the paper upon said plate; and a tally strip roll provided at one end of said platen, said frame being movable along said rod from a position wholly to one side of the tally strip roll to a position where one end of said plate stands in front of the tally strip roll.

22. In a front strike writing machine, the combination with a revoluble platen, of a plate mounted vertically on edge at the front of the platen and rising thereabove, and having means to which the operator may square the leading edge of the paper, and also having a gage for the side edge of the paper; and tally strip rolls mounted at one end of the platen; said plate being adjustable longitudinally of the platen to bring one end thereof in front of the tally strip rolls.

23. In a front strike writing machine, the combination with a revoluble platen, of a plate mounted vertically on edge at the front of the platen and rising thereabove, and having means to which the operator may square the leading edge of the paper, and also having a gage for the side edge of the paper; and tally strip rolls mounted at one end of the platen; said plate being adjustable longitudinally of the platen to bring one end thereof in front of the tally strip rolls, and said gage being independently adjustable along the platen.

24. In a front strike writing machine, the combination with a revoluble platen, of a plate mounted vertically on edge above the platen at the top thereof, and having a stop to which the operator may square the leading edge of the paper, a directrix extending forwardly and downwardly from said stop for guiding the paper upwardly along said plate before it is squared to the stop, and tally strip rolls mounted at one end of the platen; said plate and said directrix being adjustable along the platen from a position in front of the tally strip rolls to a position at one side of the latter.

25. In a front strike writing machine, the combination with a revoluble platen, of a plate on edge and extending along the front of the platen and rising above the same, upon which the paper may be adjusted by the operator, a stop for the leading edge of

the paper, means for moving said stop away from the paper, a gage for the side edge of the paper, and a tally strip roll mounted at one end of the platen, said plate being movable endwise to and away from the front of the tally strip roll.

26. In a front strike writing machine, the combination with a revoluble platen, of a normally idle stop above the front side of the platen, means to move said stop into position to arrest the leading edge of the sheet at the proper point to receive the first line of writing and back to normal position, a gage for the side edge of the paper to cooperate with said stop to position the paper properly in the machine, and a tally strip apparatus at one end of the platen, said tally strip apparatus including a roll to carry a carbon strip in front of the tally strip to enable the simultaneous imprint of an amount on the tally strip and on the sheet.

27. In a front strike writing machine the combination with a revoluble platen, of a normally idle stop above the front side of the platen, means to move said stop into position to arrest the leading edge of the sheet at the proper point to receive the first line of writing and back to normal position, a gage for the side edge of the paper to cooperate with said stop to position the paper properly in the machine, and a tally strip apparatus at one end of the platen, said gage being movable toward and away from said tally strip apparatus, and the latter including a roll to carry a carbon strip in front of the tally strip to enable the simultaneous imprint of an amount on the tally strip and on the sheet.

28. In a front strike writing machine, the combination with a revoluble platen, of a plate or tablet arranged vertically on edge over the upper front side of the platen, a stop in front of said plate and normally separated therefrom, and movable rearwardly to the upper edge of said plate, a gage for the side edge of the sheet mounted upon said plate, and a tally strip apparatus at the other end of the platen from said gage and including a carbon strip spool to enable an amount to be written simultaneously on the main sheet and on the tally strip.

29. In a front strike writing machine, the combination of a revoluble platen, a plate or tablet arranged vertically on edge over the upper front side of the platen, a stop in front of said plate and normally separated therefrom, and movable rearwardly to the upper edge of said plate, the latter being adjustable along the platen, and a tally strip apparatus at one end of the platen and including a roll to carry a carbon strip and a roll to carry the tally strip.

30. In a front strike writing machine, the combination with a revoluble platen and a

tablet or plate erected thereover and adjustable along the platen, of a gage for the side edge of the paper adjustable with said tablet, a stop for the leading edge of the paper, said stop movable into and out of working position, and a tally strip apparatus at one end of the platen.

31. In a front strike writing machine, the combination of a revoluble platen and a device mounted over the front side of the platen and having means against which the leading edge of the paper may be set, a pressure roll for feeding paper around the platen, a key connected to said pressure roll and to said paper adjustment device to release the roll and render the paper adjustment device effective, and also to render the paper adjustment device ineffective while restoring the roll, and a tally strip apparatus mounted at one end of the platen, said paper adjustment device being adjustable along the platen to and from the tally strip apparatus.

32. In a front strike writing machine, the combination of a revoluble platen, a paper-adjustment device erected over the front side of the platen and comprising members which are relatively movable to determine the position of the leading edge of the sheet, and then to permit the sheet to pass, the movable member being mounted upon a rock shaft, a key connected to said rock shaft, and a tally strip apparatus mounted at one end of the platen, said movable member being adjustable along said rock shaft, and the other of said members being also adjustable along the platen to and from the tally strip apparatus.

33. In a front strike writing machine, the combination with a revoluble platen, of a plate on edge and extending along the front of the platen and rising above the same, upon which the paper may be adjusted by the operator, a stop for the leading edge of the paper, a directrix leading up to said stop, and means for moving said stop and directrix away from the paper.

34. In a front strike writing machine, the combination with a revoluble platen, of a normally idle stop above the front side of the platen, a directrix leading up to said stop, and means to move said stop into position to arrest the leading edge of the sheet at the proper point to receive the first line of writing, and back to normal position.

35. In a front strike writing machine, the combination with a revoluble platen, of a normally idle stop above the front side of the platen, a directrix upon which said stop is mounted, means to move said stop into position to arrest the leading edge of the sheet at the proper point to receive the first line of writing and back to normal position, and means for adjusting said stop up and down to vary the initial writing position of the paper.

36. In a front strike writing machine, the combination of a revoluble platen, a plate or tablet arranged vertically on edge over the upper front side of the platen, and a stop in front of said plate and normally separated therefrom, and a directrix on which said stop is mounted, said directrix movable rearwardly to carry said stop to the upper edge of said plate.

37. In a front strike writing machine, the combination with a revoluble platen, of a plate or tablet arranged vertically on edge over the upper front side of the platen, a stop in front of said plate and normally separated therefrom, and movable rearwardly to the upper edge of said plate, and a directrix leading up to said stop; said plate, stop and directrix being adjustable along the platen.

38. In a front strike writing machine, the combination of a revoluble platen and a plate or tablet erected over the front side of the platen upon which to adjust the paper, a directrix for the leading edge of the paper normally separated from said plate, and means for effecting relative closing and opening movement between said plate and said directrix, first to guide the sheet to the junction of the plate and the directrix, and then to permit the sheet to advance past the plate.

39. In a front strike writing machine, the combination of a revoluble platen, a plate or tablet erected over the front side of the platen upon which to adjust the paper, a stop for the leading edge of the paper normally separated from said plate, a directrix leading to said stop, and means for effecting relative closing and opening movement between said platen and said stop and directrix, first to enable the sheet to be guided to the stop, and then to permit the sheet to advance past the stop; a gage being provided for the side edge of the sheets, and means being provided for permitting adjustment of said side gage along the platen.

40. In a front strike writing machine, the combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same and extending therealong, upon which the paper may be adjusted after insertion thereof into the machine; the top edge of said plate being in position to register with the leading edge of the sheet when the latter is in position to receive the first line of writing, a stop ledge lying upon said top edge, a directrix leading up to said stop ledge, said plate, directrix and ledge being adjustable up and down to vary the position of the first line of writing on the sheet, and means being provided for withdrawing said stop ledge to permit the adjusted sheet to pass by the same.

41. In a front strike writing machine, the

combination with a revoluble platen, of a plate erected on edge at the front side of the platen and rising above the same and extending therealong, upon which the paper may be adjusted after insertion thereof into the machine, the top edge of said plate being in position to register with the leading edge of the sheet when the latter is in position to receive the first line of writing, a stop ledge lying upon said top edge, a directrix leading up to said stop ledge, said plate, directrix and ledge being adjustable up and down to vary the position of the first line of writing on the sheet, means being provided for withdrawing said stop ledge to permit the adjusted sheet to pass by the same, and means being provided for adjusting the angle at which the directrix stands with reference to said plate.

42. In a front strike writing machine, the combination with a revoluble platen, of a plate extending along the top of the platen, upon which the paper may be adjusted after insertion thereof into the machine, and a tally strip roll provided at one end of the platen, said plate being movable endwise from a position in front of the tally strip roll to a position wholly to one side of said tally strip roll.

43. In a front strike writing machine, the combination with a revoluble platen, and pressure rolls to run thereon, of a key to release the pressure rolls, a plate extending along the front of the platen above the printing line, a stop for the leading edge of the paper, and means controlled by said key for moving said stop to said plate at the release of said rolls, and for moving said stop away from said plate after the restoration of the rolls to normal positions.

44. In a front strike writing machine, the combination of a revoluble platen, pressure rolls to run thereon, a key to release said pressure rolls, a sheet guiding plate extending along the platen above the printing line, a directrix mounted in front of said plate and having a stop for the leading edge of the sheet, means controlled by said key to move said directrix to the plate upon the release of the rolls from the platen, and

means also controlled by said key to move the directrix away from the plate after the rolls are restored to the platen.

45. In a front strike writing machine, the combination with a revoluble platen and pressure rolls to run thereon, of a key to release the pressure rolls, a plate extending along the platen above the printing line, a stop for the leading edge of the paper, and means for enabling the key to move the stop to said plate at the release of said rolls.

46. In a front strike writing machine, the combination with a revoluble platen and rolls to feed the paper around the platen, of a table or rest upon which the paper may be adjusted forwardly after insertion thereof into the machine, said rest in the form of a plate erected on edge at the front side of the platen and rising above the same about tangentially thereof and extending therealong, and in such a position as to stand between the paper and the platen, as the paper emerges from the machine, means being provided to afford a movement of said table or rest away from the platen to an idle position out of the way of the paper.

47. In a front strike writing machine, the combination with a revoluble platen, rolls to feed the paper around the platen, and a platen frame, of a narrow vertical plate extending along the front of the platen and forming a table or rest upon which to adjust the paper, and having a gage or means against which the leading edge of the paper may be squared, said plate mounted for rotation backwardly over the platen to an idle position out of the way of the paper.

48. In a front strike writing machine, the combination with a revoluble platen and rolls to feed the paper around the platen, of a table or rest for supporting the paper and upon which the paper may be adjusted by the operator, a gage for the leading edge of the paper, said gage in connection with said table or rest, and means for moving said gage out of the path of the paper.

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Witnesses:

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