

March 2, 1937.

R. VARLEY

2,072,657

DIAL TELEPHONE INDICATOR

Filed Feb. 5, 1935

8 Sheets-Sheet 1

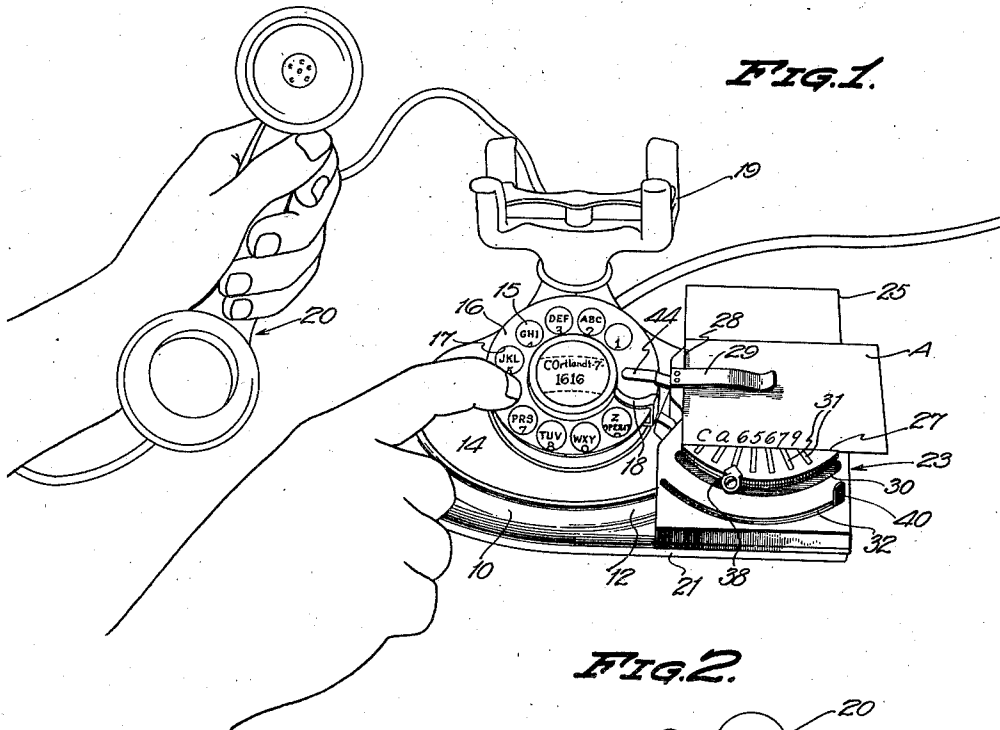


FIG. 2.

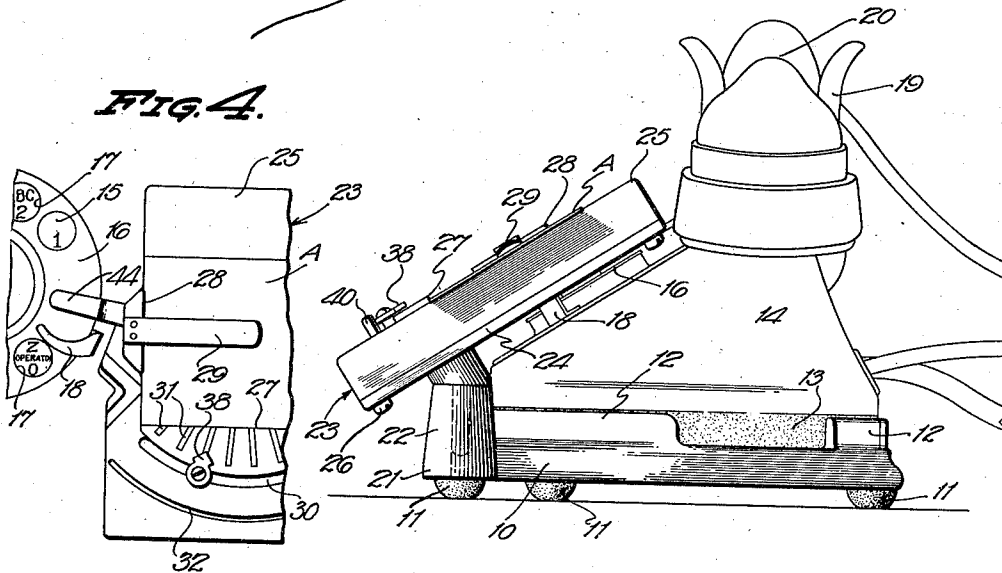


FIG. 4.

RICHARD VARLEY.  
INVENTOR

WITNESS:

*Newton Lusk*

BY  
*Ely & Pattison*  
ATTORNEYS

**March 2, 1937.**

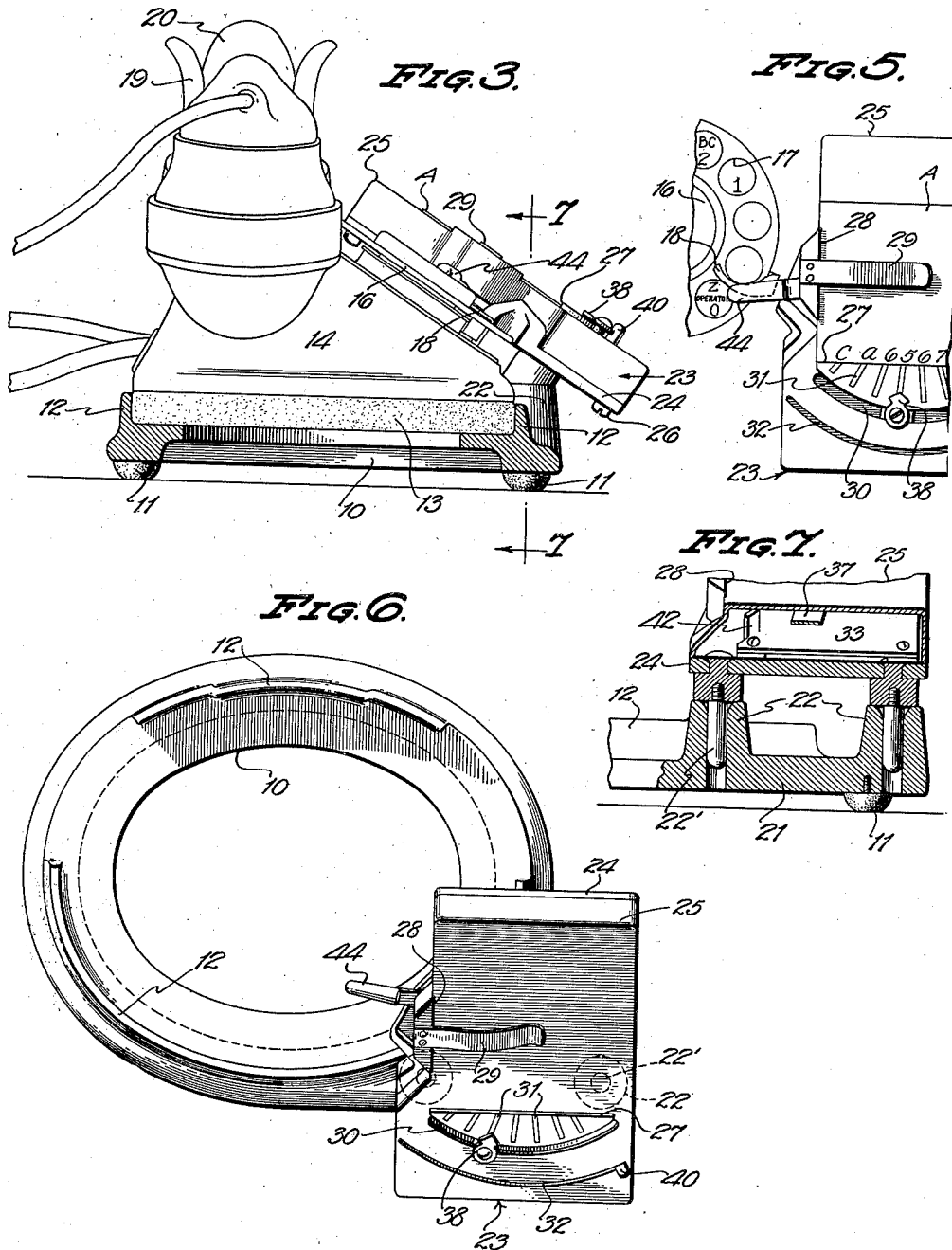
**R. VARLEY**

**2,072,657**

DIAL TELEPHONE INDICATOR

Filed Feb. 5, 1935

8 Sheets-Sheet 2



**WITNESS:**

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March 2, 1937.

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2,072,657

DIAL TELEPHONE INDICATOR

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FIG. 8.

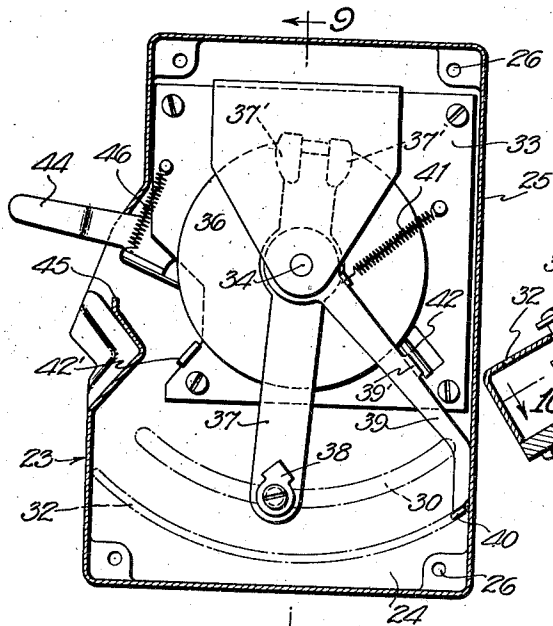


FIG. 9.

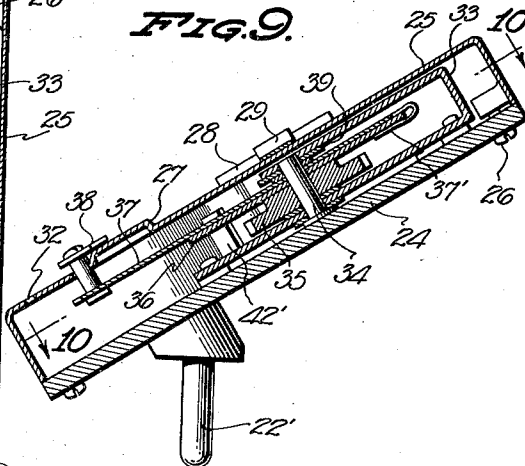


FIG. 10.

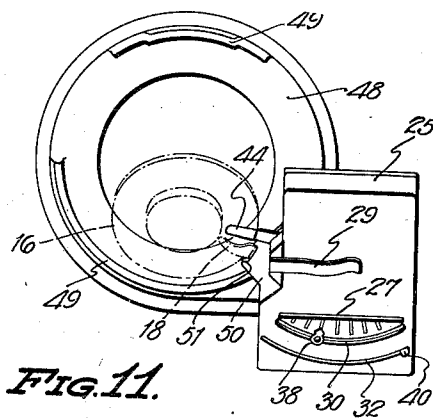
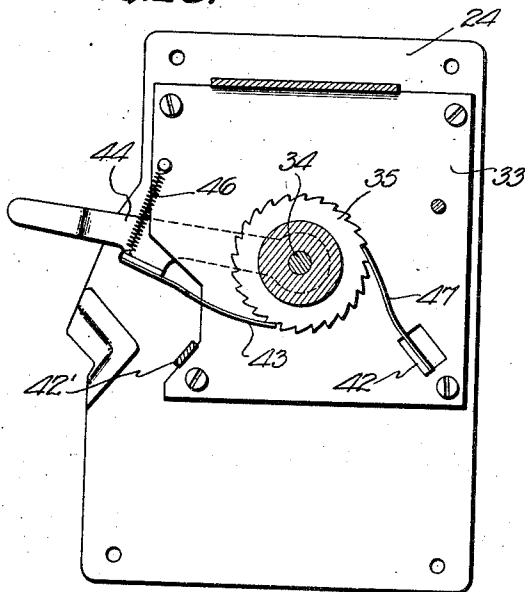


FIG. 11.

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WITNESS:

*W. H. Smith*

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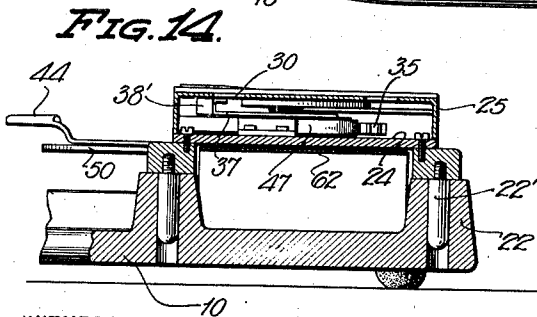
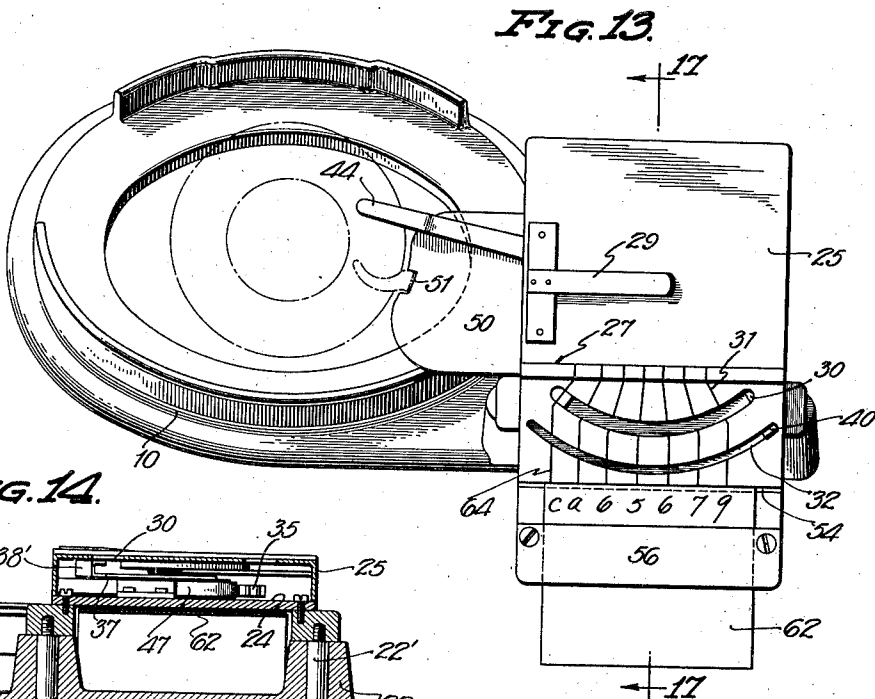
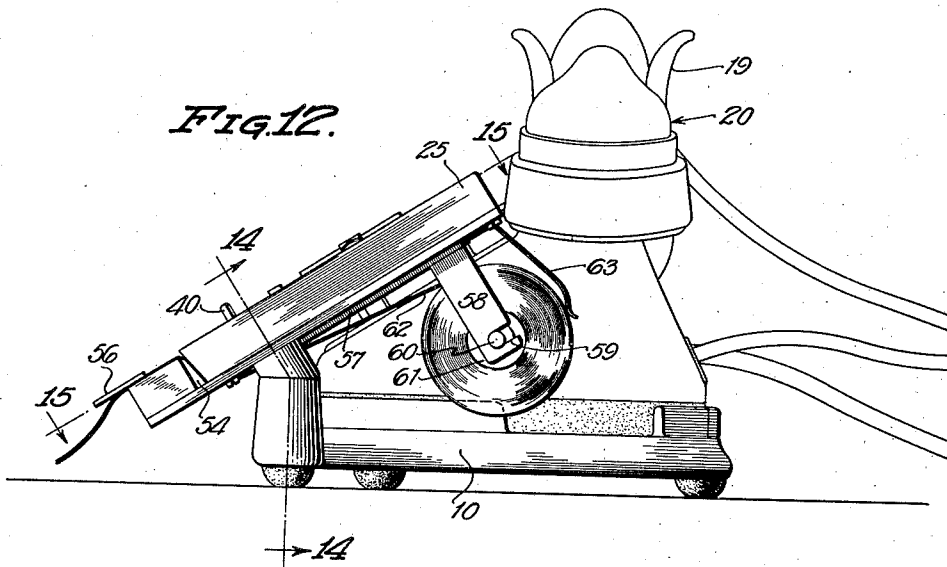
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**2,072,657**

DIAL TELEPHONE INDICATOR

Filed Feb. 5, 1935

8 Sheets-Sheet 4



**WITNESS:**

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March 2, 1937.

R. VARLEY

2,072,657

DIAL TELEPHONE INDICATOR

Filed Feb. 5, 1935

8 Sheets-Sheet 5

FIG. 15.

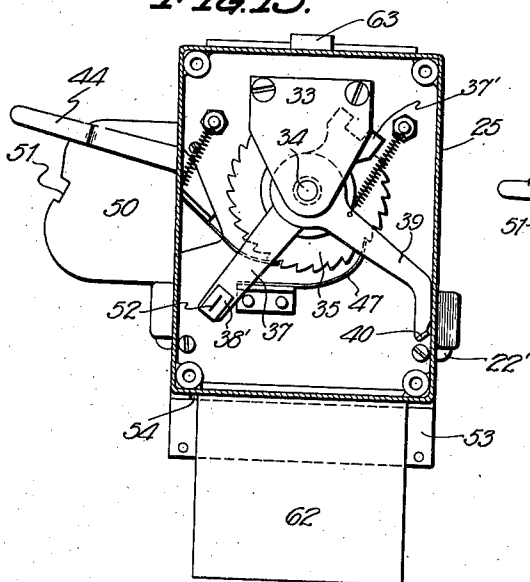


FIG. 16.

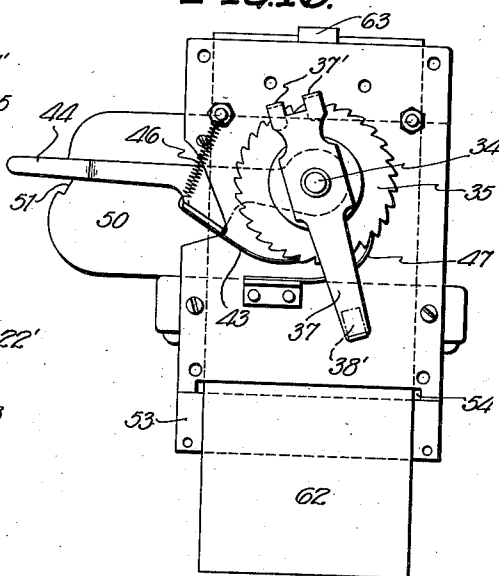


FIG. 17.

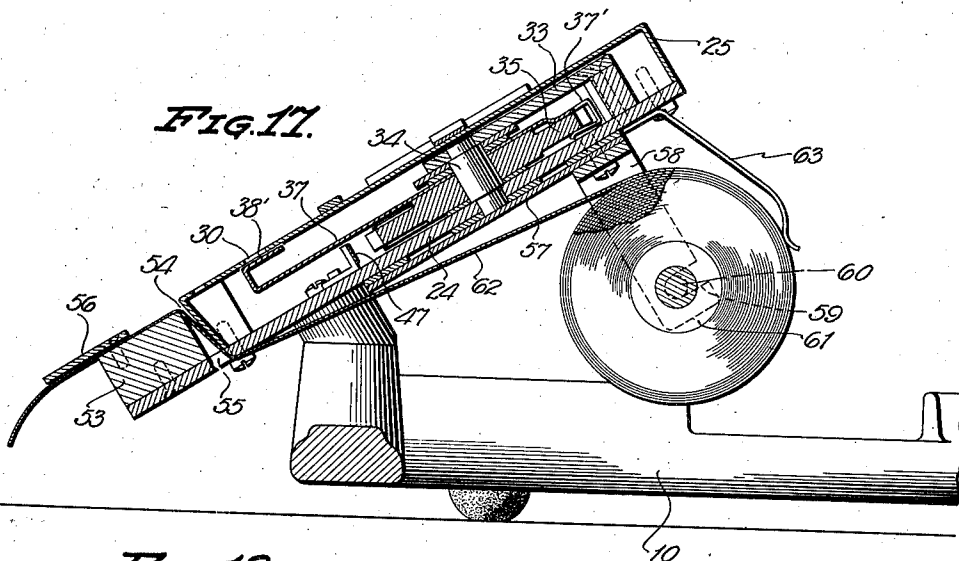
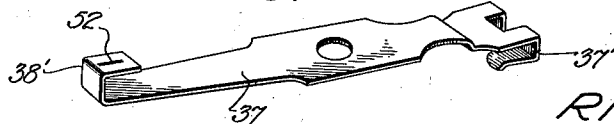


FIG. 18.



WITNESS:

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DIAL TELEPHONE INDICATOR

Filed Feb. 5, 1935

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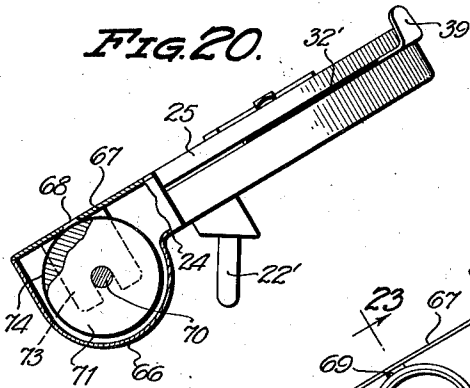


FIG. 19.

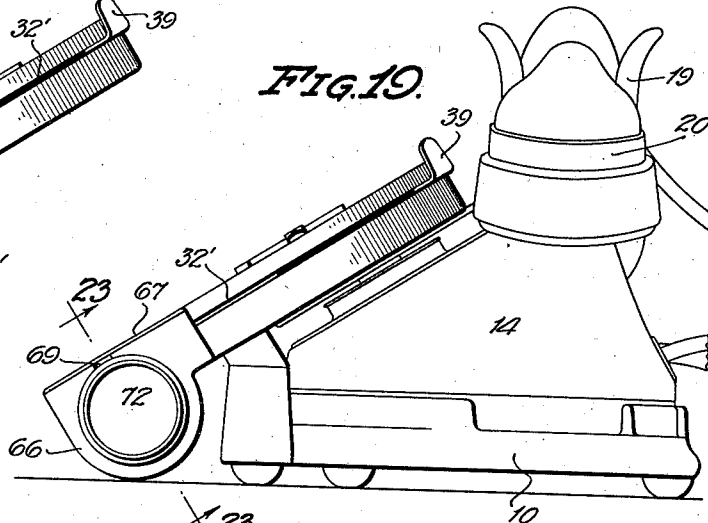


FIG. 21.

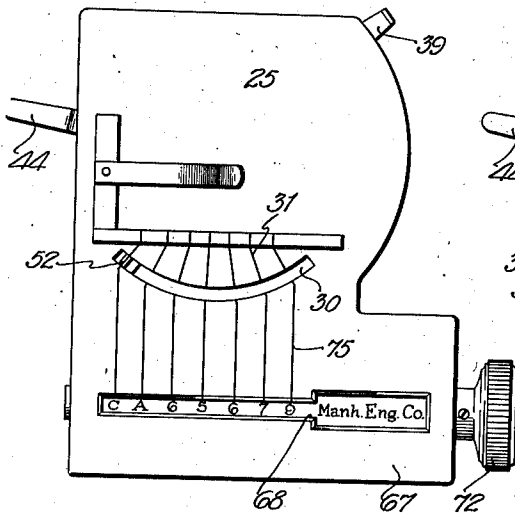


FIG. 22.

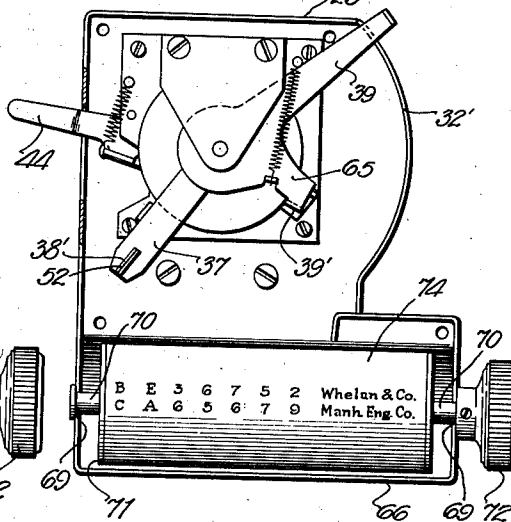
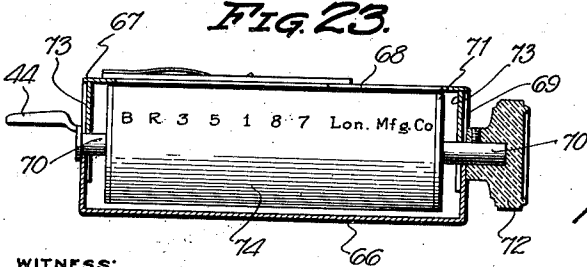


FIG. 23.



WITNESS:

*H. Newton Lusk*

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March 2, 1937.

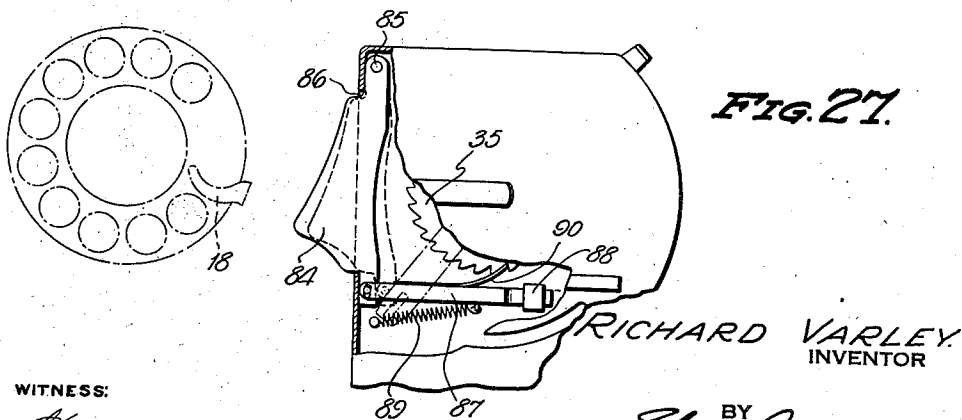
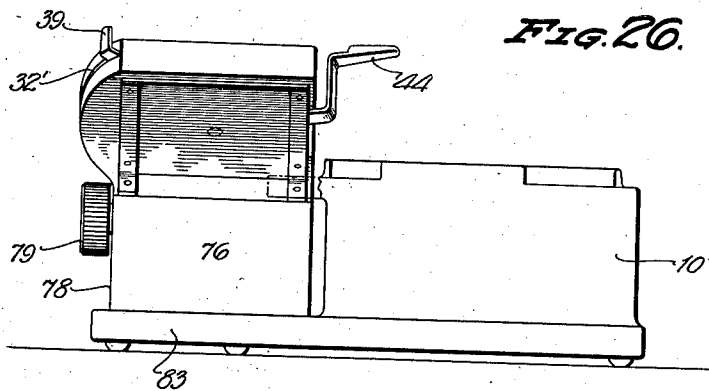
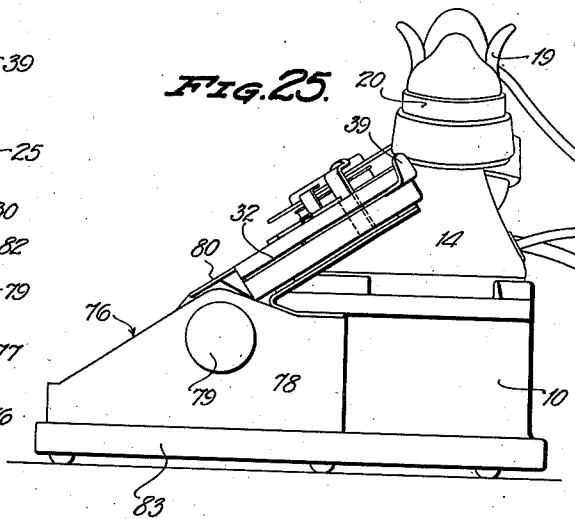
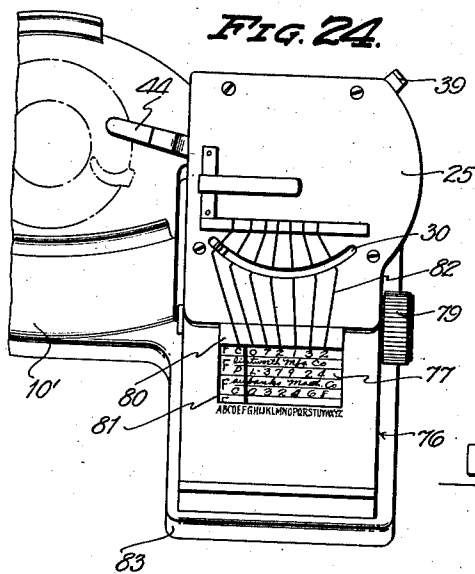
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2,072,657

DIAL TELEPHONE INDICATOR

Filed Feb. 5, 1935

8 Sheets-Sheet 7



WITNESS:

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DIAL TELEPHONE INDICATOR

Filed Feb. 5, 1935

8 Sheets-Sheet 8

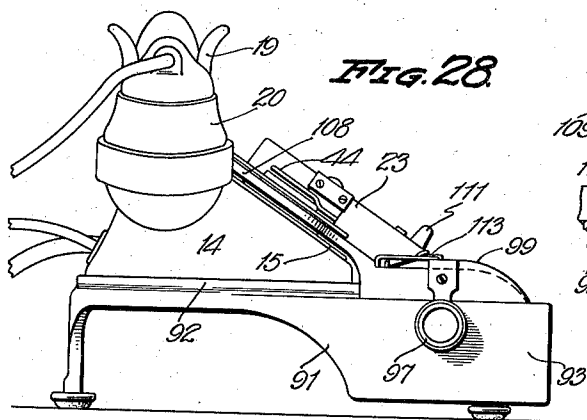


Fig. 28.

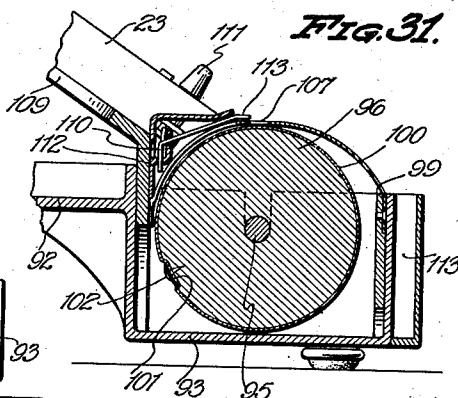


Fig. 31.

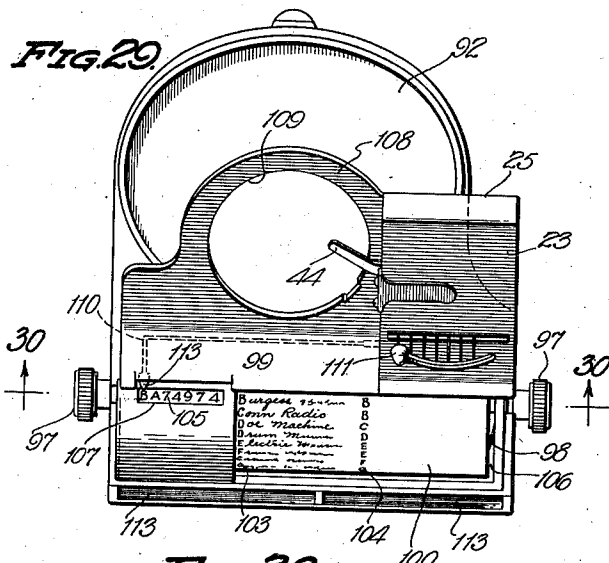


Fig. 29.

Fig. 32.

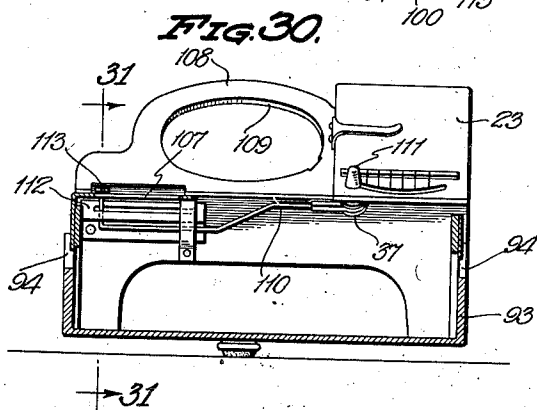
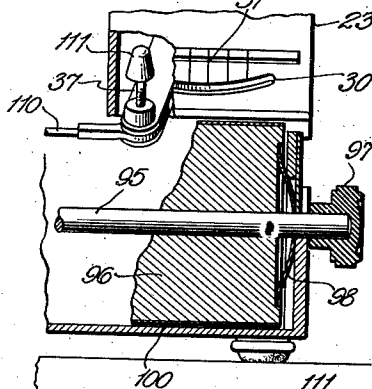
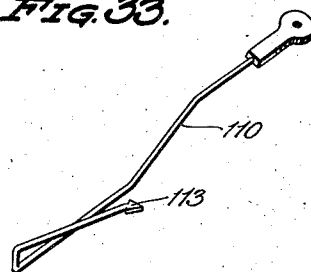


Fig. 30.

Fig. 33.



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## UNITED STATES PATENT OFFICE

2,072,657

## DIAL TELEPHONE INDICATOR

Richard Varley, New York, N. Y., assignor to  
Inter-Outer Telephone Corporation, Dover,  
Del., a corporation of Delaware

Application February 5, 1935, Serial No. 5,025

21 Claims. (Cl. 179—90)

This invention relates to improvements in telephone attachments and more particularly to an indicator device for use in association with dial type telephones.

One of the main objects of the invention resides in an indicating device by which a person making a telephone call over a dial type telephone may have the number to be called within view and upon each dialing actuation, the indicator will indicate the next number to be dialed. It often occurs that a person using a dial type telephone may dial the same number twice or may accidentally skip a number which negatives the call, and necessitates the replacement of the phone upon the phone rest and the subsequent removal of the same therefrom for redialing. This invention is intended to overcome such errors caused by thoughtlessness on the part of the user of a dial telephone to assure successive dialing of the respective letters and numerals which constitute the telephone number to be dialed.

Another feature of the invention is to provide a telephone number indicator which may be operatively associated with the base of a dial telephone without necessitating the alteration or tampering with the telephone equipment.

Another feature is the provision of a telephone number indicator device which is associated with the dial of a dial telephone instrument which is disposed beyond the dial so as not to interfere with the view of a user when making a call, the indicator device including an actuating lever which is disposed in the path of the finger of a user during each dialing operation whereby to operate the indicator on each dialing operation to shift the indicator from one indicating position to the next indicating position.

With these and other objects in view, the invention resides in the novel construction, combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of the invention associated with a dial telephone and showing the hands of a user during a dialing operation.

Figure 2 is a side elevational view.

Figure 3 is a view similar to Figure 2, but looking at the opposite side.

Figure 4 is a fragmentary top plan view, with the actuating lever of the indicator device in normal position.

Figure 5 is a view similar to Figure 4 but

showing the actuating lever in an operating position.

Figure 6 is a top plan view of the indicator device per se.

Figure 7 is a detail vertical sectional view on the line 7—7 of Figure 3.

Figure 8 is a horizontal sectional view through the indicator.

Figure 9 is a vertical sectional view on the line 9—9 of Figure 8.

Figure 10 is a horizontal sectional view on the line 10—10 of Figure 9.

Figure 11 is a top plan view of a modified form of attaching base for a circular type phone stand.

Figure 12 is a side elevational view of a modified form.

Figure 13 is a perspective view of the form shown in Figure 12.

Figure 14 is a transverse sectional view on the line 14—14 of Figure 12.

Figure 15 is a horizontal sectional view through the indicator device with the actuating lever in normal position.

Figure 16 is a plan view of the indicator actuating mechanism with the actuating lever in actuating position.

Figure 17 is an enlarged vertical longitudinal sectional view on the line 17—17 of Figure 13.

Figure 18 is a detail perspective view of the indicator arm.

Figure 19 is a side elevational view of a further modification of my invention associated with a dial telephone.

Figure 20 is a view similar to Figure 19 but showing the indicator device per se with parts broken away in section.

Figure 21 is a top plan view thereof.

Figure 22 is a top plan view with the cover removed and a part broken away in section.

Figure 23 is a transverse sectional view on the line 23—23 of Figure 19.

Figure 24 is a top plan view of a further modified form wherein a permanent telephone index is associated with the indicator device.

Figure 25 is a side elevational view thereof.

Figure 26 is a rear elevational view.

Figure 27 is a fragmentary top plan view with parts broken away in section of a further modification.

Figure 28 is a side elevational view of a further modification of my invention illustrating a dial phone associated therewith.

Figure 29 is a top plan view with the telephone removed.

Figure 30 is a vertical sectional view on the line 30—30 of Figure 29.

Figure 31 is a vertical transverse sectional view on the line 31—31 of Figure 30.

5 Figure 32 is a fragmentary front elevational view with parts in section.

Figure 33 is a perspective view of the connecting link between the two indicating means and with its connecting parts in disassembled relation.

Referring to the drawings by reference characters, the numeral 10 designates an oval ring-like stand supported by short rubber feet 11 and which is provided with upstanding flanges 12 to form a seat of a size to snugly receive the oval base 13 of a dial type telephone stand 14. The telephone stand also includes the usual rearwardly inclined number dial 15, rotatable signalling disk 16 mounted parallel to and over the dial 15 and provided with finger openings 17, a fixed finger stop 18, and a telephone instrument cradle 19. The cradle 19 normally supports the telephone instrument 20 of the French type.

The right side of the stand 10 is provided with an integral extension piece 21 from which a pair of spaced aligned sockets 22 rise and which serve to support the indicator device 23 in a rearwardly inclined position parallel to the inclination of the dial 15 and disk 16 and to the right side thereof.

The indicator device 23 includes a substantially flat rectangular casing comprising a bottom plate 24 and a thin metal shell or cover 25 which is removably connected to the plate 24 by screws 26. Extending downwardly at an angle from the inclined plate 24 are pins 22' for reception in the respective sockets 22 and which serve to rigidly support the indicator device in a rearwardly inclined position. The top of the casing adjacent the lower end is provided with a transverse ledge or shoulder 27, while a straight edge or abutment 28 is provided along the left side of the casing above the plane of the top and coacts with the ledge 27 for receiving and accurately lining up certain characters contained upon the card or slip with an indicating pointer when inserted into position upon the top of the casing. For holding a card or slip upon the casing, there is provided a flat spring clip 29 fixed to the straight edge 28 and extending inwardly over the top of the casing.

The top wall of the casing below the ledge 27 is provided with an arcuate shaped slot 30, while radial guide indicating lines 31 extend from adjacent the inner wall of the slot to the ledge 27. There are seven of such lines shown, three for the telephone exchange and four for the number of the telephone to be dialed.

Below the arcuate slot 30 is another arcuate slot 32 and the purpose of the slots 30 and 32 will be mentioned hereinafter.

Rigidly mounted within the casing is a frame 33 in which a pivot pin 34 is fixedly mounted, the arc of the arcuate shaped slots 30 and 32 being struck from the axis of the pin 34. Freely turnable on the pin 34 is a ratchet wheel 35, the teeth of which extend in a clockwise direction as best seen in Figure 10. Fixed to the ratchet wheel 35 on one side thereof, is a disk 36 which is larger in diameter than the ratchet wheel and turns therewith. Pivoted on the pivot pin and disposed next to the outer side of the disk 36 is a thin resilient indicator arm 37, one end of which is forked and bent over the peripheral edge of the disk 36 and flat against the opposite side

thereof to provide fingers 37' which form a frictional connection between the disk and the indicating arm. Thus the arm 37 will move with the turning of the disk but is free to be moved relative thereto. The free end of the indicator arm 37 carries a pointer 38 which extends through the slot 30 and is adapted to successively move into radial alinement with the guide lines 31 during operation of the device.

Also pivoted upon the pivot pin 34 is an indicator return lever 39 having a manipulating portion 40 on the free end thereof and which extends through the arcuate slot 32. A spring 41 has one end fixed to the lever 39 and its other end to the frame 33 and tends to normally hold the angular inwardly extending finger 39' of the lever against a stop 42 with the manipulating portion 40 at the right end of the slot 32. Thus it will be seen that the finger 39' of the lever 39 is movable in the path of the indicator arm 37 whereby manual grasping of the portion 40 and swinging movement of the lever 39 to the left will return the indicator 38 to its initial starting position at the left end of the slot 30 after it has been moved through a series of dialing operations. A stop 42' disposed in the path of return movement of the indicator arm 39 limits movement of said arm in that direction. Release of the manipulating portion 40 permits the spring 41 to return the lever 39 to normal position.

The indicator arm 37 is actuated by reason of a spring pawl 43 fixed to an actuating lever 44 which has its inner end pivoted to the pivot pin 34, while its outer end extends through a slot 45 in the left side wall of the casing and into the path of movement of the finger of an operator when the operator's finger is placed in one of the openings 17 and the disk 16 turned to signalling position. The free end of the lever 44 terminates on a plane just above the finger stop 18. A spring 46 has one end connected to the lever 44 and its other end to the frame 33 to normally hold the lever in a raised position. The pawl 43 engages the teeth of the ratchet wheel 35 at the under side thereof so that depression of the free end of the lever 44 causes the ratchet wheel and disk 36 to turn a predetermined distance in a counter-clockwise direction. A spring 47 is fixed to the frame 33 and engages the ratchet wheel 35 to prevent accidental clockwise movement of the ratchet wheel upon the idle return movement of the pawl 43.

In operation, assume that it is desired to make a call over the telephone shown in the drawings with the indicator attachment in position thereon, it being understood that the indicating pointer 38 is at the extreme left in alinement with the first of the indicating guide lines 31. The user first inserts a card or slip of paper A beneath the clip 29 and the top of the indicator casing so that at least one edge abuts the transverse ledge or shoulder 27. The numbers to be called is then written upon the card so that they aline with the indicating guide lines 31. In Figure 1 of the drawings, the number written upon the card is "C-A-6-5-6-7-9" which represents for instance the telephone number "Canal 6-5679". The indicator 38 is now in alinement with the letter C which means that that is the first letter to be dialed. The operator then removes the telephone instrument 20 from the phone stand and places his finger in that opening 17 disposed over the letter C on the dial plate 15. The rotatable signalling disk 16 is then turned toward the finger stop 18 and during

such movement, the finger comes in contact with the free end of the actuating lever 44, which movement of the lever causes the pawl 43 to turn the ratchet wheel 35 a predetermined distance. As the ratchet wheel 35 moves a predetermined distance, it also moves the disk 36 and indicator arm 37 a corresponding distance, and which is sufficient to move the indicating pointer from one line 31 to the next adjacent line, thus indicating to the user of the telephone the next letter or number to be dialed. This operation continues until the entire telephone number has been dialed, at which time the indicating pointer 38 is at the limit of its movement toward the right. By grasping the manipulating portion 40 of the lever 39 and moving the same toward the left, the said lever will contact the indicating pointer 38 and return the indicating pointer and the arm 37 to normal position. Upon the return movement of the arm 37, the said arm moves relative to the disk 36 to which it is connected by friction. Release of the manipulating portion 40 will permit the spring 41 to return the arm 39 to its normal position.

From the foregoing description, it will be seen that the user of a dial telephone may know at all times the next number to be dialed which will avoid confusion and eliminate the calling of wrong numbers.

In Figure 11 of the drawings, I have shown a modified form of my invention for use in association with dial phones having a round base instead of an oval one such as shown in the preceding form. The ring-like stand is designated at 48 and like the stand 10, it is provided with upstanding flanges 49. To prevent accidental turning of the phone instrument rest relative to the stand 48 during a dialing operation, and in which it is adapted to be supported, I provide a wing extension 50 on the left side of the indicator casing in which is a notch 51. The notch snugly receives the finger stop 18 and by reason of the fact that the indicator device is rigidly connected to the stand 48, the phone rest is held against accidental turning relative thereto.

In Figures 12 to 18 inclusive, I have illustrated a paper roll in association with my indicating device, on the free end of which the telephone number to be called may be conveniently written and the call letters and numbers accurately spaced and the free end torn off and inserted upon the top of the indicator casing for use in making the call. The construction of the indicator device is substantially the same as that previously described and similar reference characters refer to like parts. However, in this form, the indicating end of the indicator arm 37 has the indicator or pointer 38' bent therefrom and disposed within the indicator casing the same having an indicating mark 52 thereon readable through the opening 30 and for movement into successive alinement with the indicating guide lines 31. The disk 36 shown in the preceding form is dispensed with and the forked hooked end 37' frictionally engaging opposite sides of the ratchet wheel 35. Also, in this form, one end of the pivot pin 34 is mounted in the base plate 24 of the casing instead of both ends being mounted in the bracket 33 as previously described. In this embodiment, the lower end of the plate 24 extends beyond the lower end of the casing cover 25 and supports a transversely disposed block 53 spaced from the lower end of the casing to provide a passage 54 which is in alinement with a transverse slot 55 in the extension of the plate 24.

Fixed to the block 53 and extending below the same is a combination paper guide and paper tear blade 56. A portion of the underside of the blade 56 is spaced from the block 53 to permit the passage of a strip of paper therebetween.

Attached to the underside of the plate 24 is a frame 57 having spaced angularly extending arms 58 which are notched as at 59 and provide bearings for pintles 60 at opposite ends of a roller 61 on which a strip of paper 62 is normally wound. The paper is of a width to freely pass through the transverse passage 54 and slot 55 and the free end of the same passes therethrough from the underside of the plate 24, over the block 53 and down beneath the blade 56. A tension spring 63 has one of its ends fixed to the plate 24 and its free end bearing against the paper roll to tension the roll and prevent accidental unwinding of the same.

In this form, the guide lines 31 are carried down below the openings 30 and 32 in spaced parallel relation as at 64 and terminate at the bottom edge of the metal shell or cover 25 at the passage 54 where the free end of the paper passes upwardly over the block 53 to guide the user in writing a telephone number upon the exposed portion of the paper strip, the block 53 serving as a rigid backing as illustrated in Figure 13.

Should a subscriber desire to keep a record of the calls made during a day or other period of time, the written telephone number may be left upon the strip and the name of the party called and the date of the call written adjacent the number. At the end of the day or other period of time, the end of the strip containing the numbers may be torn off and kept for future checking with the monthly telephone bill.

The operation of the indicating device in this form is precisely the same as that previously described, with the exception that the indicator mark 52 successively alines with the indicating guide lines 64 when dialing the number to be called. However, should the user desire to write the number upon a card and insert the same upon the casing 25 beneath the clip 29 he may do so.

After a roll of paper 62 has been used, the spool or roll 61 may be removed from the bracket arms 58 and a new roll substituted therefor. The lower edge of the blade 56 provides a straight edge by which the free end of the paper strip may be torn from the roll.

In Figures 19 to 23 inclusive, I have illustrated my indicating device in association with a permanent alphabetically arranged telephone number index which necessitates the extension of the indicator return lever 39 through a slot 32' in the right side of the shell or cover 25, the engaging finger 39' of which is provided on an angularly extending arm 65 formed integral with the lever 39. Otherwise, the indicating mechanism is the same as previously shown, and described. However, the back plate 24 is formed with an integral semi-circular shaped roller housing 66, while the top wall of the shell or cover 25 is provided with a flat housing cover extension 67. The flat top extension 67 has a transversely disposed sight opening 68 therein while the side walls are provided with opposed notches 69 for receiving the pintles 70 at opposite ends of a roller 71. One pintle extends beyond the housing a sufficient distance to fixedly receive a manipulating knob 72. The roller is held seated by notched brackets 73 which extend inwardly from the extension plate 67, the pintles 70 fitting into the notches thereof. Fixed to the rollers 71 is a paper tube

74 on which an index of telephone numbers may be typed or written and the said numbers brought into selective alinement with the sight opening 68 upon turning of the roller through the manipulation of the knob 72.

Parallel guide lines 75 are provided in the extension plate 67 and extend from the slot 30 to the top edge of the sight opening 68. Thus the guide lines 75 cooperate with the indicator mark 52 on the indicator 38' to lead the eye of the user to the respective numbers visible through the sight opening 68 during use of the device.

In Figures 24 to 26 inclusive, an indicating device similar to that shown in the preceding form is illustrated in conjunction with a telephone index device 76 of the type set forth in U. S. Letters Patent No. 1,496,515 granted June 3, 1924, wherein a mechanism for the rapid actuation of a data strip 77 is enclosed in a casing 78 by the manipulation of an exteriorly located actuating knob 79. The top of the casing 78 is inclined and is lapped by an extension plate 80 forming a continuation of the flat top of the shell or cover 25. The inclined top of the casing 78 is provided with a sight opening 81 to display the telephone numbers alphabetically listed upon the strip. The selected telephone number to be dialed is brought to a position just below the top wall of the sight opening 81 and the data aligns with the converging guide lines 82 leading to the indicator slot 30.

To associate the telephone number index device 76, it is necessary that the telephone instrument be supported upon an elevated base or stand 10' instead of the relatively low flat bases 10 shown in the preceding forms. The base 10' includes a forwardly extending platform 83 on which the index device 76 is supported.

In Figure 27 a still further modification is shown, wherein the indicator actuating lever is not in the direct path of movement of the finger of the user during a dialing operation but is disposed adjacent thereto and actuatable upon each return of the rotatable dialing wheel during the follow through of the dialing finger of the user. In this form I provide a lever 84 pivoted adjacent the top of the indicator casing as at 85, and which normally extends through a slot 86 in the side wall of the indicator casing adjacent the finger stop 18. The free end of the actuating lever 84 normally abuts the side wall of the indicator casing and has one end of a slide arm 87 pivoted thereto, the other end of the slide arm being slidably supported by a bearing 88. A spring 89 has one end fixed to the slide arm 87 and its other end attached to the indicator casing to normally hold the lever 84 extended. A spring pawl 90 is carried by the slide arm 87 and engages the teeth of the ratchet wheel 35 to turn the ratchet wheel a predetermined distance upon each inward movement of the lever 84. The lever is actuated by the dialing finger of a user by permitting the finger to slide off the finger stop 18 so that it may be said that the lever 84 is in the path of the follow through movement of the dialing finger. The rest of the mechanism may be a duplication of that previously described so that further explanation is not deemed necessary.

In Figures 28 to 33 inclusive, I have shown a still further modified form wherein a plurality of indicating means are operable by a single actuating mechanism. In this form, the numeral 91 designates a stand having a rearwardly disposed

platform or seat 92 for the reception of the base 14 of the telephone instrument, while forwardly, the stand 91 is provided with a well or housing 93, the opposed side walls of which are provided with aligned slots 94 extending downwardly from the top edge of the said side walls. The aligned slots 94 receive the extending ends of a shaft 95 and on which a telephone index roller 96 is fixedly mounted. The ends of the shaft 95 extend beyond the sides of the housing 93 and have manipulating knobs 97 fixed thereto. For preventing accidental turning movement of the roller after the same has been set to a selected position, I provide friction disks 98 at the opposite ends thereof and which frictionally contact with the side walls of the housing and with the sides of the cover section 99, a portion of which fits within the housing and covers a portion of the open top thereof. Encircling the roller 96 is a paper strip 100, the free ends of the strip being seated in a recess or depression 101 in the periphery of the roller and fastened by thumb tacks 102 so that the lapping ends of the paper strip and the head of the thumb tacks are disposed inwardly of or flush with the periphery of the index roller. The strip 100 may be provided with two rows of alphabetical indexes 103 and 104, the former adapted to receive the names of local parties, whereas the column 104 may contain the names and numbers of toll calls. Associated with the column 103, is a separate column in which the telephone numbers 105 of the parties listed in column 103 may be written, the respective numbers 105 being in horizontal alinement with the names of the respective parties.

A portion of the top of the cover 99 is left open to provide a window 106 for displaying the two columns 103 and 104 while a single sight opening 107 is provided in the closed portion of the cover 99 at a point just below the plane of the top edge of the window opening 106 whereby the telephone number of the party whose name is brought into a position just below the top edge of the window opening 106 is caused to register with the display opening 107.

Extending upwardly and rearwardly at an angle from the cover 99 is a plate 108 which overlies the dial of the phone instrument and which plate is provided with a window opening 109 for displaying and encircling the telephone instrument dial 15.

Mounted upon the right side of the plate 108, is an indicating device 23 similar to that hereinbefore shown and described with the exception that the reset lever has been omitted therefrom. Also, the actuating lever 37 of the device 23 extends down into the housing 93 and has one end of a link 110 pivotally connected thereto, the pivotal connection including a manipulating knob 111, which is the equivalent to the indicator 38 shown in the preferred form and which coacts with the indicating marks 31 in the same manner as the indicator 38. The link 110 has its other end extending through a slotted guide bracket 112, which is carried by the cover 99 and the extreme free end of the link is bent at an angle and terminates in an indicator or pointer 113 which is movable over the top edge of the sight opening 107. It will thus be seen, that when a selected number is brought into registration with the sight opening 107 and the indicators 111 and 113 are at the extreme limit of their movement to the left as shown in Figure 29, that each actuation of the lever 44 during a dialing operation, 75

will cause the respective indicators to simultaneously move into indicating position with the next adjacent number to be dialed. After a complete dialing operation, the indicating mechanisms are reset by merely grasping the indicating knob 111 and swinging the same to the limit of its movement toward the left.

It will be appreciated from the construction shown in this modified form, that an index may be kept of all parties and numbers frequently called by a subscriber and the auxiliary indicating means used in association with the index numbers. The device also permits of the writing of new numbers upon a card and inserting the same upon the indicating device 23 as hereinbefore explained, and when calling numbers not listed in the index such indicator device 23 is placed in use. After a card containing a new number has been used in association with the indicating device 23, the same may be placed in either of the pockets 113 provided therefor at the front of the housing 93 until such time as the numbers may be permanently recorded upon the index strip, providing of course it is desired to record such numbers for future reference. To remove the roller for the substitution of a new index strip, it is only necessary to lift the cover 99 clear of the housing 93, whereupon the roller may be removed from its bearing in the slot 34. From the foregoing description, it is apparent that I have provided a telephone indicating device for use with dial type telephones, which will lessen the possibility of errors in dialing and the loss of time and expense in calling wrong numbers. In certain forms I have provided telephone number indexes for the convenience of the telephone subscribers to expedite the dialing of numbers frequently called.

While I have shown and described what I deem to be the most practical embodiments of my invention, I wish it to be understood that such changes and further modifications as come within the scope of the appended claims may be resorted to if desired.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent of the United States, is:—

1. In combination with a dial type telephone instrument, an indicating device associated therewith including means for visibly displaying a telephone number to be dialed, and means operable by the finger of an operator during each dialing operation of said telephone instrument for indicating the next telephone number character to be dialed.

2. In combination with a dial type telephone instrument, means for visibly displaying a telephone number to be dialed, an indicator successively movable into indicating relation with the characters of the telephone number to be dialed, and actuating means operable by the dialing finger of an operator upon the completion of each character dialing operation for moving said indicator a predetermined distance into indicating position with the next telephone number character to be dialed.

3. In combination with a dial type telephone instrument, means for visibly displaying a telephone number to be dialed, an indicator successively movable into indicating relation with the characters of the telephone number to be dialed, and actuating means operable by the dialing finger of an operator upon the completion of each character dialing operation for moving said indicator a predetermined distance into indi-

cating position with the next telephone number character to be dialed, and reset means for said indicator.

4. In combination with a dial type telephone instrument, an indicating device including means for visibly displaying a telephone number to be dialed, an indicator successively movable into indicating relation with the characters of the telephone number to be dialed, actuating means for successively moving said indicator embodying a manually operated element, and means for supporting said telephone instrument and rigidly holding said indicating device relative thereto with said manually operated element in the path of the dialing movement of the finger of an operator to actuate said actuating means upon each manual dialing operation of said telephone instrument.

5. In combination with a dial type telephone instrument having a base on which the dial and rotatable dialing wheel is mounted, a stand supporting said base, an indicating device mounted on said stand including means for displaying a telephone number to be dialed, indicator means for successively indicating the telephone number characters of the telephone number to be dialed, and an actuating element for operating said indicator means disposed adjacent the dialing wheel for engagement by the finger of an operator upon each dialing actuation of said dialing wheel.

6. In combination with a dial type telephone instrument, means for displaying a telephone number to be dialed within vision of an operator during dialing manipulation of said dial type telephone instrument, and indicating means operable by the dialing finger of an operator upon each dialing operation to indicate the next telephone number character to be dialed.

7. A device for indicating the dialing operation of a dial telephone comprising indicator mechanism including a movable indicating element, means for displaying a telephone number to be dialed, and actuating means for said indicator mechanism for moving said indicator element into successive indicating position relative to the telephone number characters of the telephone number displayed upon each dialing operation of the dial telephone.

8. In a device for indicating the dialing operations of the user of a dial telephone instrument, means for displaying a telephone number to be dialed, and indicating mechanism adapted to be manually operated upon each dialing operation of a dial telephone instrument to indicate the next character of a telephone number to be dialed.

9. In a device for indicating the dialing operations to the user of a dial telephone instrument, an indicator element, actuating means for moving said indicating element a predetermined distance on each operation thereof during each dialing operation of a dial telephone instrument, and means for displaying a telephone number to be called relative to said indicator element to cause the same to successively aline with the characters of the displayed telephone number.

10. In a device for indicating the dialing operations to the user of a dial telephone instrument, an indicator element, actuating means for moving said indicating element a predetermined distance on each operation thereof during each dialing operation of a dial telephone instrument, means for displaying a telephone number to be called relative to said indicator element to cause the same to successively aline with the characters of the displayed telephone number, and manually

operable means for resetting said indicator element.

11. An indicator device for association with the dialing mechanism of a dial type telephone including a movable indicator element, means for displaying a telephone number to be called relative to the range of movement of said indicator element, and actuating means adapted to be operated by the dialing finger of an operator during a dialing operation to move said indicator element from one indicating position to another to indicate the next character of the telephone number to be dialed.

12. An indicator device for association with a dial type telephone including a pivoted indicator element, ratchet means for moving said indicator element a predetermined distance upon each actuation thereof, and means for displaying a telephone number to be dialed with the characters thereof in alinement with the stop positions of said indicator element.

13. An indicator device for guiding the dialing operations of the user of a dial type telephone instrument comprising a casing having an arcuate slot in the top wall thereof, an indicating element pivotally mounted within said casing and visible through said slot, ratchet mechanism within said casing for moving said indicating element a predetermined distance on each actuation thereof, said ratchet mechanism including an actuating lever extending beyond said casing and adapted to be disposed in the path of the dialing finger of an operator of a dial telephone, and means for displaying a telephone number to be dialed with the characters thereof in alinement with the stop positions of said indicator element.

14. An indicator device for guiding the dialing operations of the user of a dial type telephone instrument comprising a casing having an arcuate slot in the top wall thereof, an indicating element pivotally mounted within said casing and visible through said slot, ratchet mechanism within said casing for moving said indicating element a predetermined distance on each actuation thereof, said ratchet mechanism including an actuating lever extending beyond said casing and adapted to be disposed in the path of the dialing finger of an operator of a dial telephone, and means for displaying a telephone number to be dialed with the characters thereof in alinement with the stop positions of said indicator element, and a reset lever movable into the path of said indicator element for returning said indicator element to a reset position after movement of the same through successive indicating positions.

15. In combination, a dial telephone number indicator device for successively indicating the dialing operations of a given number, a telephone number index having telephone numbers listed thereon, and means for positioning any selected telephone number in display position relative to said indicator device.

16. In a mechanism of the class described, in combination with a selectively operable mechanism, a plurality of means for indicating the sequence of operation of said selectively operable mechanism, a plurality of means simultaneously movable with respect to said plurality of indicating means from a given point throughout the sequence indicated upon operation of the selectively operable mechanism, and means for simultaneously

returning said last mentioned means to their starting position.

17. In a mechanism of the class described, in combination with a selectively operable mechanism, a plurality of means for indicating the sequence of operation of said selectively operable mechanism, a plurality of means simultaneously movable with respect to said plurality of indicating means from a given point throughout the sequence indicated upon each operation of the selectively operable mechanism, and means for simultaneously returning said last mentioned means to their starting position.

18. In a mechanism of the class described, in combination with a selectively operable mechanism, a plurality of means for indicating the sequence of operation of said selectively operable mechanism, each of said means including a movable indicator element, connecting means between the indicator elements to cause them to move simultaneously, actuating means associated with one of said indicating means, and reset means for simultaneously moving the indicator elements to a reset position when said actuating means is idle.

19. In a mechanism of the class described, in combination with a selectively operable mechanism, means for indicating the sequence of operation of said selectively operable mechanism, means movable with respect to said indicating means from a given point throughout the sequence indicated upon each operation of the selectively operable mechanism, and means for returning said last mentioned means to its starting position.

20. An indicator device for guiding the dialing operations of the user of a dial type telephone instrument comprising a casing having a series of graduations on the top thereof, an indicating element pivotally mounted within said casing and having its outer free end extending exteriorly of said casing for successive registration with said graduations, actuating mechanism within said casing for moving said indicating element a predetermined distance on each actuation thereof to successively register with the graduations, said actuating mechanism including an actuating lever extending beyond said casing and adapted to be disposed in the path of the dialing finger of an operator of a dial telephone, and means for displaying a telephone number to be dialed with the characters thereof in alinement with the respective graduations.

21. An indicator device for guiding the dialing operations of the user of a dial type telephone instrument comprising a casing having a series of graduations on the top thereof, an indicating element pivotally mounted within said casing and having its outer free end extending externally of said casing for successive registration with said graduations, actuating mechanism within said casing for moving said indicating element a predetermined distance on each actuation thereof to successively register with the graduations, said actuating mechanism including an actuating lever extending beyond said casing and adapted to be disposed in the path of the dialing finger of an operator of a dial telephone, means for displaying a telephone number to be dialed with the characters thereof in alinement with the respective graduations, and reset means for returning the indicating element to a reset position after movement of the same through successive indicating positions.

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