

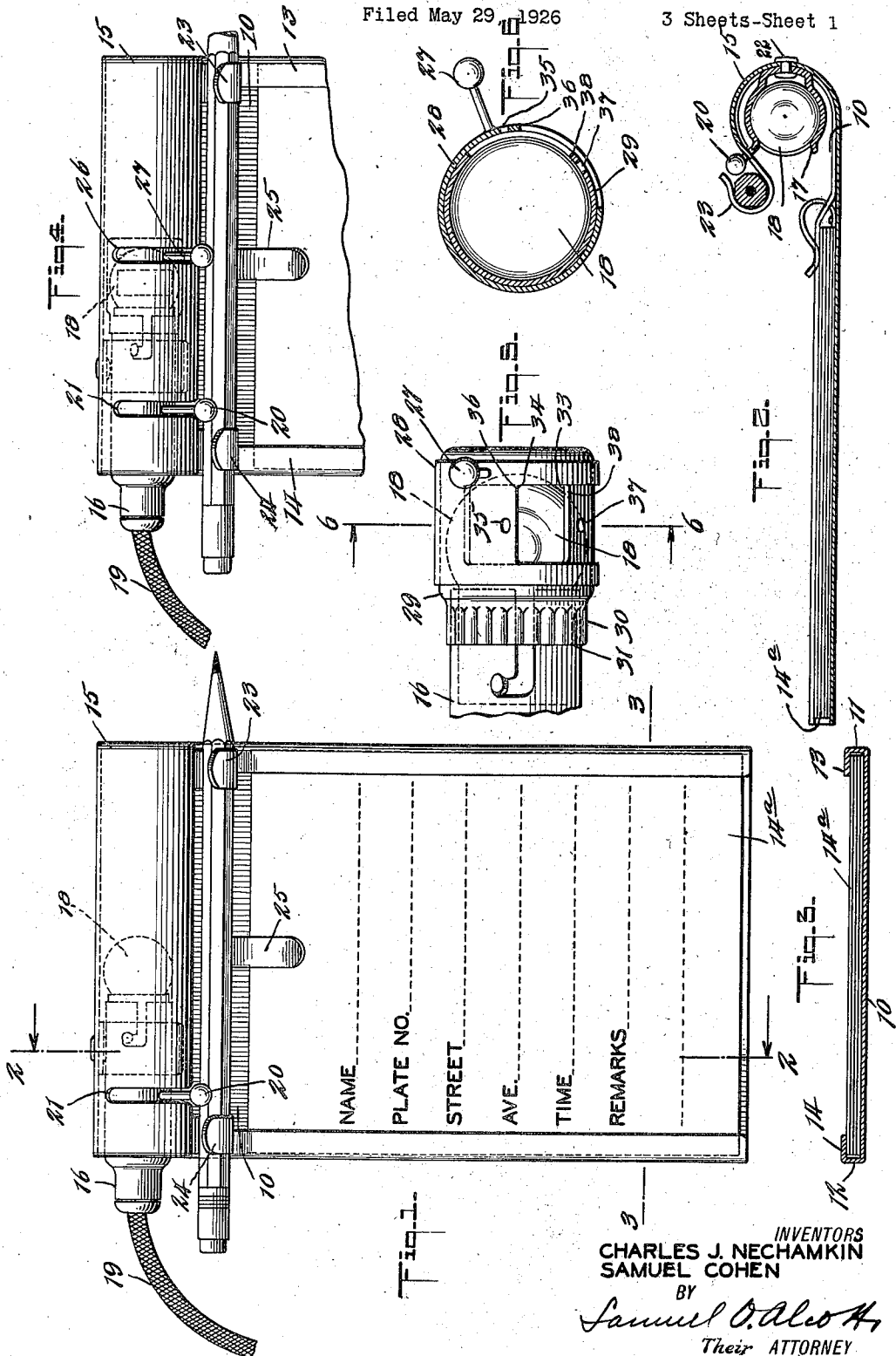
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C. J. NECHAMKIN ET AL
ILLUMINATED RECORD HOLDER

Filed May 29, 1926

3 Sheets-Sheet 1



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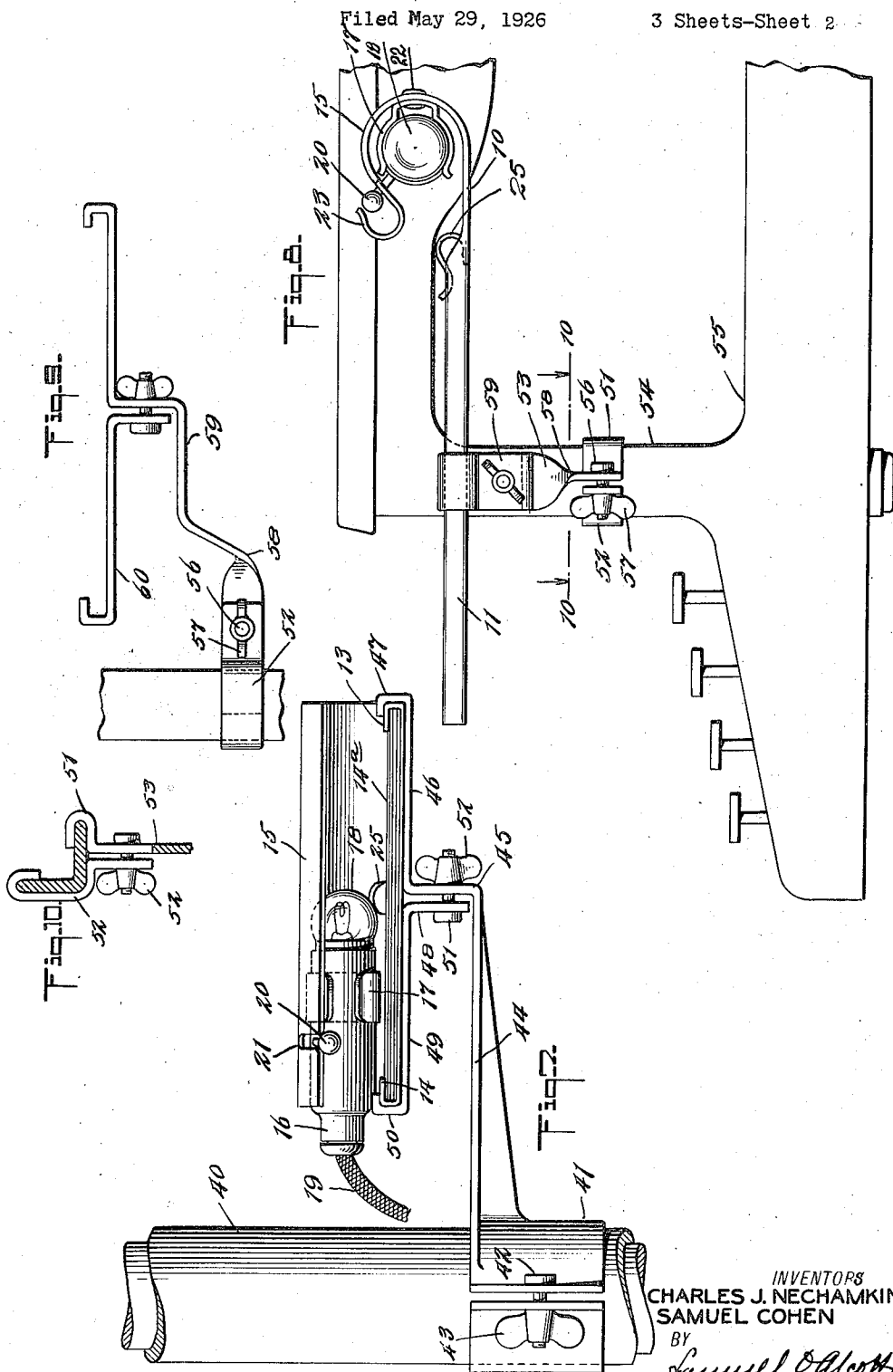
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3 Sheets-Sheet 2



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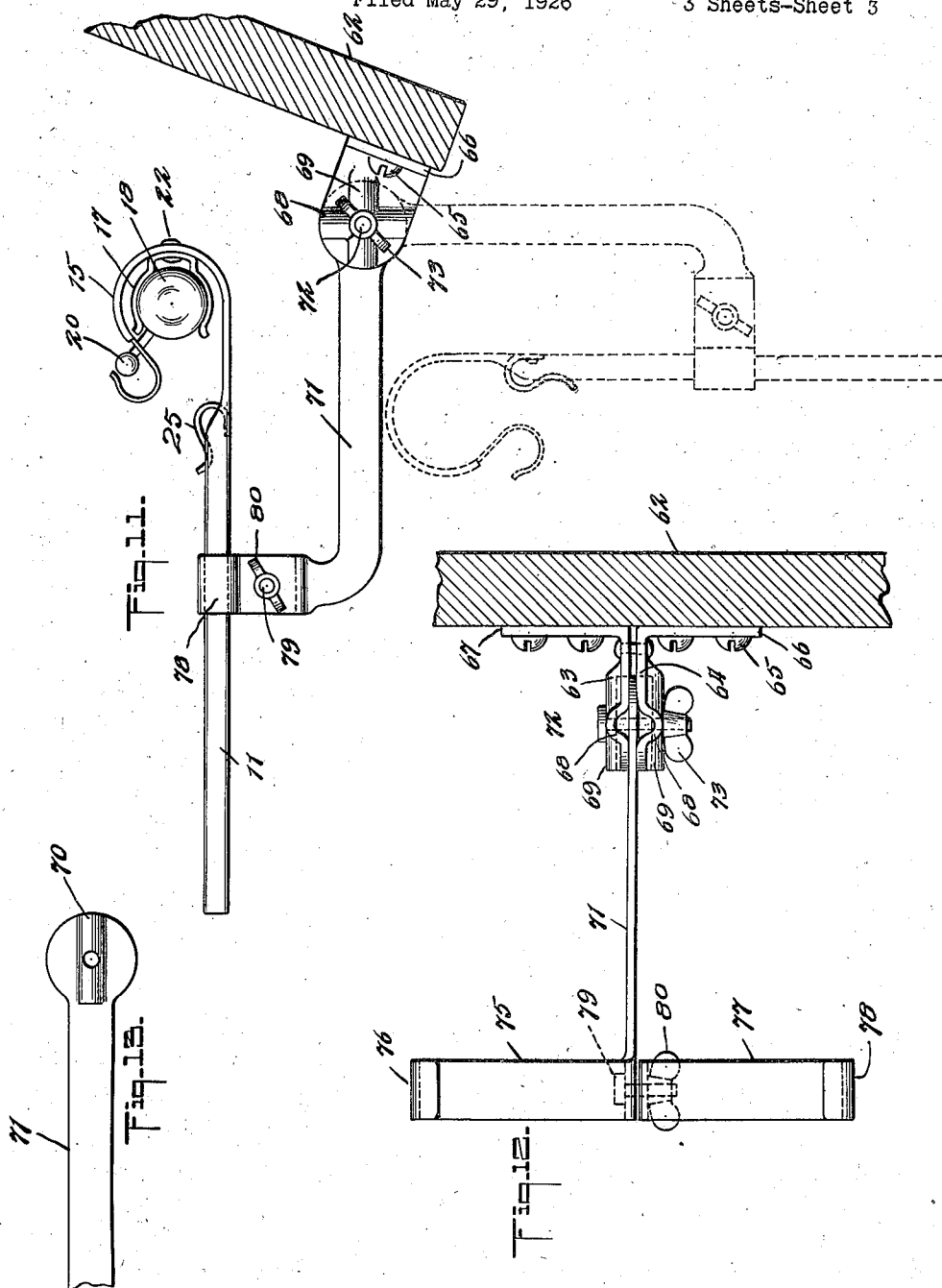
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3 Sheets-Sheet 3



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ILLUMINATED RECORD HOLDER.

Application filed May 29, 1926. Serial No. 112,611.

Our invention relates to record holders provided with detachable, controlled record illuminating means in which the holder is provided with a reflector to direct light to the record; and has means to conveniently carry a record making instrument. Still more particularly our invention relates to a holder in which the illuminating means is provided with an adjustable shield by which the degree of illumination upon the record may be controlled as desired. Our invention further relates to means by which our record-holder may be detachably mounted in operable position upon any suitable support and be adjusted thereon to any position required for conveniently making records; it being especially adapted for use with automobiles, typewriters, beds, desks, or other means which may carry such a record device to facilitate the making of records connected with their use.

One of the objects of our invention is to provide a device, which is of compact structure, of few parts, upon which records may be securely and conveniently held and from which records may be readily withdrawn, as desired and which is so illuminated, by means carried as a part thereof, that records may be made under any condition of light or darkness independently of other illumination than that from the illuminating means carried by the record holder.

Another object is to provide a device of this character, in which the illuminating means may be readily detached from or mounted in operative position in the record holding device without disassembling or disarranging either the record receiving elements, or the record holding device itself.

Another object is to provide a device of this character, in which the illuminating means may be connected to and disconnected from a suitable source of energy to supply the illumination, such as for instance, if used in an automobile, the lighting system of the vehicle.

Another object is, to provide a device of this character, in which the illuminating means may be controlled so that the maximum or the minimum amount of illumination may be directed to the record at the will of the operator, and may be so regulated at the operator's will by means at all times under his control.

Another object is, to provide in a device

of this character, a means for conveniently holding at all times ready at hand, a suitable instrument, by means of which a record may be made.

Another object is, to provide a device of this character, in which any desired number of record receiving blanks may be removably carried, so that as desired, one or more of said record-receiving blanks may be withdrawn and the remaining blanks retained securely but removably to conveniently permit a record to be made thereon.

Another object is, to provide a supporting device to conveniently mount the record-holder, so that it may be held on any record-holder, so that it may be held on any suitable carrier in any desired operable position for receiving a record, and may readily be removed therefrom without disarrangement of the records or other parts of the record-holder.

Another object is, to provide a holding means for our record-holder, such that it may readily support the record-holder upon a vertical, cylindrical, angular or other shaped member in operable position, or may as readily support the record-holder upon similarly shaped members in a horizontal, or inclined position and may be conveniently and readily attached thereto and removed therefrom.

Another object is, to provide a support for our record-holder on vertical, inclined or horizontal supporting elements, such that it may, when desired, be displaced from its normal record receiving position and may be securely and conveniently thus held by means that form a part of the record-holder support, and may be so adjusted, that the support will be firmly and securely automatically locked in either record-receiving, or in displaced position at the will of the operator.

Another object is, to provide a device of this character, which may be convenient for use in an automobile, in the event of accident or for other purposes, so, that any desired record may be made thereon conveniently and instantly.

Another object is, to provide a device of this character, that may be convenient for use in making and holding records such as those ordinarily made by nurses, doctors, or others in hospitals in the care of patients or during operations; that may be convenient

iently used by typists in their usual operation of a typewriter for holding note-books or other papers from which copy is to be made; or used by police, such as traffic officers, either in booths, motor cycles or other vehicles during traffic regulation and in making memorandum of infractions of the laws thereof; or used in connection with the operation of telephones, machines, or other devices in connection with which individual records are required, or for use by scientists or experimentists to record results of scientific operations, particularly, where control of the amount of light diffused during these operations is of importance; and also for use in the general conduct of ordinary business transactions, where individual records are to be made; and where the control of railroads is dependent upon the proper recording of the movement of a given train or car, its time of passage at a given point or other fact desired, is necessary to be had; and in general,—in the making of any memorandum where in the conduct of business, the position of the recording station is desirable and the control of the light upon the record is of importance, this instrument is of value.

Our invention consists of the particular combination, arrangement and organization of parts shown in the accompanying drawings, described in the specification, and more particularly pointed out in the appended claims.

In the drawings:

Fig. 1 is a plan view of our invention, showing the parts assembled in operative relation, with the means for energizing the illuminating element broken away.

Fig. 2 is a vertical cross-sectional view on line 2—2 of Fig. 1 looking in the direction of the arrow, showing the plurality of records held in the record-holder, the illuminating element detachably held, the reflector to direct the illumination upon the records, the means by which the record may be made, and the element controlling the design of illumination.

Fig. 3 is a transverse sectional view, on line 3—3, Fig. 1, showing the plurality of record-blanks and the means by which they are removably held in the record-holder.

Fig. 4 is a partial plan view of a modified form of our illuminated record-holder with the record-blank holding portion partially broken away, showing in dotted lines, the means by which the amount of light from the source is controlled by the operation of an adjustable shutter.

Fig. 5 is a side elevation of one end of the lamp carrying illuminator with the light enclosing cap and the adjustable shutter detachably mounted thereon.

Fig. 6 is a vertical cross-sectional view, taken on line 6—6, Fig. 5, looking in the direction of the arrow, showing the construc-

tion of the light enclosing cap with its light emitting opening and the adjustable light controlling shutter mounted thereon.

Fig. 7 is a side elevation, partly in section, showing the supporting means for our record-holder mounted upon a fragmentary section of a steering post illustrating the plurality of record-blanks and the illuminating means with the means detachably holding it in the reflector and the record-holder shown detachably carried and held in the supporting device.

Fig. 8 is a side elevation of a fragmentary section of a typewriter frame, showing the illuminated record-holder mounted on and carried by a support attached to one of the uprights of the typewriter-frame in adjustable and operative position and the record-holder in adjustable position within its support.

Fig. 9 is a side elevation of a portion of the upright typewriter frame, illustrating the record-holder support mounted thereon.

Fig. 10 is a cross-sectional view taken on line 10—10 of Fig. 8, looking in the direction of the arrows, showing the construction of the gripping elements of the record-holder support and the manner in which the support may be attached to an angular member such as a standard of a typewriter-frame.

Fig. 11 is a side elevation, partly in cross-section, of our device attached to the dashboard of an automobile, showing in full lines the device and support as positioned for use and in dotted lines in displaced position, showing the jaw members by which the arm for supporting the record-holder is held and locked when in operative or inoperative position.

Fig. 12 is a top-plan view, partly in cross-section, of the record-holder supporting member, attached to the dashboard of an automobile or other vehicle, as held in operative position for record making, showing the means by which the record-holder support arm is held locked in record-making or displaced position.

Fig. 13 is a fragmentary view, in elevation, of one end of the record-holding support arm, showing the semi-tubular enlargement arranged around its pivot point by which in combination with its co-operative jaws, the record-holding support arm is held in record-making or displaced position.

Referring to the drawings in which like numerals of reference indicate corresponding parts, our device consists of a body portion or plate-like member 10, which at its opposite longitudinal edges, is provided with substantially U-shaped angularly-formed bent-up portions 11 and 12, so arranged that portions 13 and 14 thereof are inwardly bent towards each other from said edges, substantially parallel to the plate-like portion 10, to removably hold and retain in operative

position, a plurality of sheets, strips, cards or other devices, upon which memoranda may be made. Integral with the plate-like member 10 at one end thereof, we provide an upwardly bent or curved end portion 15, to serve as a means within which a lamp socket 16 may be detachably mounted in spring fingers 17, so that said socket 16 may be partially encircled by the bent-up portion 15 and be held therewithin to carry a lamp or other light producing means 18, by which the record-receiving strips, cards, sheets, or other elements may be illuminated. Connected to the socket 16 is an electrical conductor 19 by means of which the light producing means 18 is energized. This electrical conductor 19 may be connected to any suitable source of electric energy, such as a lamp socket, or in an automobile, to the lighting system of a car, or to any other suitable supply of current. The socket 16 is provided with a switch 20, by means of which the lamp 18 may be lighted or dimmed, as desired. The end portion 15 is on its inner surface, covered with a reflecting material such as enamel, silver or any other suitable substance, so that it will reflect the light from the lamp 18 upon the sheets or cards upon which the memoranda is to be recorded. The end section 15 is so curved from the body portion 10, that it shields the eye of the operator from any glare of light, but at the same time, directs the light from the lamp 18 to the record receiving blank. The section 15 is provided with a slot 21, near one end thereof, in order to receive the switch 20 in operative position and permit its necessary movement to effect the lighting or dimming of the lamp 18. The spring fingers 17 are affixed to the bent-up portion 15 of the body portion 10, by means of rivets or other suitable fastening elements 22, so that the lamp and socket may be held in the desired operative position by the spring fingers 17 or may be readily removed therefrom when desired for repair, adjustment or other reasons. Although the bent-up end portion 15 partially encircles the socket 16 and the light producing means 18, it however, is so formed that it provides an opening substantially its entire length transversely across the body portion 10, from which light may be reflected to the record-receiving means, in order to illuminate these means for a ready making of a record thereon independent of other lighting means.

Affixed to the end section 15, we provide spring clips 23 and 24, so arranged that they will conveniently hold a pencil, or other means by which records may be made upon the record-receiving blanks, and which will permit the ready withdrawal of the pencil or other instrument when needed for use, but will otherwise securely hold the same when not in use.

In order that the blanks, or other devices upon which the record may be made, shall be securely held within the record-holder, we provide a gripping clamp element or spring finger 25, which at one end is attached to the body portion 10 of the record holder, above the upper margin of the record-receiving blanks and which, at its free end, may be lifted to receive and grip new blanks or record-receiving means as they are to be introduced into the record-holder. When the record-receiving blanks are introduced into the record-holder, the blanks will thus be securely held and when each record-receiving blank is withdrawn, will securely contact with and grip the next succeeding record-receiving blank and hold it and the other record-receiving blank in the desired position, so that records may be made thereon and so that the blanks may be withdrawn successively, without disturbing the position of the remaining blanks.

It is to be understood that the record-receiving blanks or other devices, although illustrated in our drawings, to be usable in connection with matters that relate to name, plate number, street, avenue, time, remarks, are not necessarily confined to indicia of this character, but may be provided to receive any record required for the particular use to which our record-holder is to be applied.

In Fig. 4—we have illustrated a record-holder having a modified form of end member 15, in which there is provided, beside the slot 21 for the switch 20, a slot 26, similar to and substantially parallel to slot 21, in which a key or switch 27 may operate. The key or switch 27 is affixed to a collar or shutter 28, which is mounted upon a cap 29, arranged to be placed upon and over the end of the socket 16 carrying the lamp or source of light 18, so that an end portion 30 provided with crimping 31, may be readily fitted over the lamp carrying end of the socket 16 and operably hold the cap thereon, but in detachable relation thereto. The cap 29 is open at the end provided with the crimpings 31 and is closed at the opposite end 32, and is further provided, around its lateral periphery, with a slot or opening 33, through which light from the lamp or source of illumination 18 may be directed upon the record-receiving blanks in our record-holder. The collar or shutter 28, is mounted on and around the cap 29, so that it may be rotated thereupon and is provided with a slotted opening in one portion thereof, and is closed in the remaining portion so that light may not transmit therethrough. This arrangement is provided in order that the portion 34 and 33 may, when registering with each other, allow the light from the source 18 to pass through the slots in the cap and shutter and fall upon the record-receiving

blank. The shutter 28, is also provided with a substantially circular opening of less size than the opening 34, near one of its edges, namely 36, so that when the shutter 28 is rotated upon the body portion 29 of the cap, to control the outflow of the light, the shutter 28 may be so positioned that the opening 35 may, in whole or in part, register with an opening 37, provided in the body portion 29 of the cap near the edge 38. By this means and arrangement there is provided an apparatus that by the movement of the shutter, will effect a control of the light passing through the openings 35 and 37 which may be readily regulated to any desired degree of exactness.

The type of device shown in Fig. 4 differs from the type of device shown in Fig. 1, in that the type in Fig. 4 is provided with the regulating cap element 29 and the slot 26 within which the control of this cap element may operate, and in that this type of device provides means for regulating the amount of the light thrown upon the memoranda receiving blank independently of the operation of the switch 20, illustrated in Figs. 1 and 2.

Although we have shown the form of openings in the cap member 29, to be substantially that of a parallelogram or straight-sided figure, in addition to the circular openings 35 and 37, it is to be understood that this form of opening is entirely arbitrary and that we may, if desired, adopt any other shape for such openings, it being understood that our invention comprises the provision of a rotatable collar or shutter which may adjust the size of the light emitting opening to any degree of fineness or shade required.

It will be obvious that by the provision of this cap 29, we have devised a means by which the light producing element may be so encased, or shielded, that the degree of light directed upon the record-receiving blanks may be regulated to any desired degree of exactness at the will of the operator by manipulation of the arm 27, which actuates and turns the sleeve or shutter 28 on the cap 29 controlling the openings 34 and 35.

As illustrated in Fig. 7, we mount upon the steering column or post 40, our illuminated record-holder by means of a support, which comprises a split base or clamp member 41, held together around the steering post or column 40, by means of a bolt 42, provided with a threaded portion at one opposite end, carrying a wing nut 43 adapted to be adjusted on the thread so that the collar portion 41 may be securely clamped around and to the steering column 40 in any desired fixed position. The supporting bracket further comprises an arm 44 extending laterally from the collar 41 with an upwardly bent portion 45 from the arm 44

and a portion 46 outwardly bent from the portion 45 substantially parallel to the portion 44, the portion 46 having at its outer end, a substantially U-shaped formation or jaw 47 adapted to clamp one side of our record-holding device. We provide further an independent section of the supporting frame or bracket, which comprises an upwardly extending portion or arm 48, having bent therefrom laterally a portion of arm 49, substantially on a plane with the portion of arm 46 and provided with a U-shaped bent up jaw like end 50, substantially identical with but oppositely formed to that of the jaw 47 on the arm 46. Extending through the arm 45 and the arm 48, we provide a bolt 51, having a wing nut 52 threaded on one end thereof, so that the said nut may adjust the bolt 51 in such a manner as to clamp our record-holder in adjustable fixed operative position, between the jaws 47 and 50 of the supporting bracket. By this supporting means, we are enabled to carry our record-holder in any desired position of adjustment upon a steering post or other vertical substantially cylindrical supporting member, so that the height and position of the record-holder will be convenient for use of the operator.

We have shown in Fig. 8, a bracket or support for our record-holder, substantially similar to that illustrated in Fig. 7, but it is provided with gripping jaws 51 and 52, which are arranged to engage and hold the supporting arm 53 in operative position upon an upright, 54, of a typewriter frame 55, part of which is illustrated in Fig. 8. The supporting bracket is provided with a bolt 56, having a wing nut 57 on one end, so arranged that it will clamp the jaws 51 and 52 in any desired position of adjustment upon the standard or post 54 of the typewriter, and so that the supporting bracket may be detached therefrom. The supporting bracket is formed with a quarter turn, at 58, so that the arm 59 may be in proper position to co-operate with the arm 60, to engage and hold our record-holder in desired operative position. The clamp member 52, being made separately from the clamp member 51, of the arm 53, by the loosening of a wing nut 52, permits the change of position of the clamp and supporting arm in reference to the typewriter post 54, or its removal therefrom.

Our device when used in connection with an automobile, may not only be mounted upon the steering post, as illustrated in Fig. 7, but may be mounted in any convenient position within the car, such as on the door thereof, or as illustrated in Figs. 11 and 12, may be attached to the dashboard 62. When so attached to the dashboard, the brackets or gripping jaws 63 and 64, may be affixed thereto by any suitable fastening means,

such as screws or other holding elements 65, gripping oppositely extending ends of substantially L-shaped end portions 66 and 67 of the jaws 63 and 64. The jaws 63 and 64 are provided with diametrically-arranged semi-cylindrical enlargements or hollowed out portions positioned at right angles to each other and are so arranged that they will securely grip and hold in these enlargements, similar enlargements 70, longitudinally arranged upon the pivoted end of the supporting arm 71. By this device the supporting arm 71 may be swung downwardly into displaced position as illustrated in dotted lines in Fig. 11 and so firmly held, or may be swung upwardly from said displaced position to the position shown in full lines in Fig. 11, and be securely held for purposes of record making, when the jaws 63 and 64 and the arm 71 are operably assembled by means of the bolt 72 passing between said jaws and arm and when the bolt 72 is properly adjusted by means of the thumb-nut 73 threaded thereon to effect any degree of gripping contact with the arm 71—it being understood that this degree of pressure is adjustable by the operation of the thumb-nut 73 upon the nut 72.

The arm 71 is provided at its outer end, with a laterally extending arm portion 75, similar to the laterally extending arm portions 46 and 60 in Figs. 7 and 9, and at its outer end, the extending portion 75 is provided with a bent-up, substantially U-shaped portion 76, that is similar to the bent-up U-shaped portion 47 and 50 shown in Fig. 7, which portion 76 is adapted to grip one side of the record-holder. Co-operating with the arm 71, and the laterally extending portion 75, is a separate member 77, having at its outer end, a bent-up portion 78 of substantially U-shape, which portion 78 is adapted to grip the opposite side of our record-holder, and hold it in operative position upon the supporting arm 71. A bolt 79 is provided, to hold the laterally extending portion 77 in co-operative position with the arm 71 and the laterally extending portion 75 and is on one end provided with a thumb-nut 80 or other suitable fastening means, by which the laterally extending portion 77 may be held and adjusted in operable relation to the arm 71 and the laterally extending portion thereof 75, in order to grip and retain in adjustable position our record-holder.

Our device may be made of sheet metal or any other suitable material, and may be formed in the manner illustrated and it is to be understood that the primary purpose of this invention is to provide a means by which record-blanks may be held, in order that records may be made thereon, and may be suitably illuminated in any condition of light or darkness, so that the desired record

may be readily made, and the blanks be removed after receiving the record, without disarranging the remaining blanks. It is also to be understood that a feature of our invention is the provision of means, by which the blank upon which a record has been made may be conveniently withdrawn without disturbing those upon which no record has been made. It will also be understood that a still further additional feature of our invention is, the provision of means by which the illuminating element in our device is so encased that the light may be controlled to the desired intensity and may fall upon the record-blank to permit the record to be properly made thereon; and so that the direction of illumination may be controlled, or be entirely dimmed at the will of the operator.

The primary purpose of our device is to provide a means by which record-receiving-blanks may be held and a means upon which this blank-holder may be mounted in any required position, and in conjunction with that, a means by which, independently of other sources of illumination, the blanks may be illuminated so as to permit the record to be made, and to permit the removal of the record-blank holder and their removal and the adjustment of the device supporting the record-blank holder, operative to any desired position.

It is further to be understood, that although we have described our invention as suitable to receive records in single order, that a multiple record may be made by the usual means in which this is accomplished.

Although we have shown, and described our invention in detail, yet we do not wish to be limited thereby, except as the state of the art and the appended claims may require, for it is obvious that, various modifications and changes may be made in the construction, combination, organization and operation of the parts thereof, without departing from the spirit and scope of our invention.

What we claim as new and desire to secure by Letters Patent is:

1. In a device of this character, the combination of means to removably support record-receiving devices, means to illuminate said record-receiving devices, and means mounted on and detachable from said illuminating means to control the amount of illumination of said devices.

2. In a device of this character, the combination of means to removably support record-receiving devices, means to illuminate said record-receiving devices, means mounted on and detachable from said illuminating means to control the amount of illumination of said devices, and means to carry a record-making instrument.

3. In a device of this character, the combination of means to removably support record-receiving devices, means to illuminate said record-receiving devices, means mounted on and detachable from said illuminating means to control the amount of illumination of said devices, and means to carry a record-making instrument.

nation of means to removably support record-receiving devices, means detachable from said supporting means to illuminate said record-receiving devices, means mounted on and detachable from said illuminating means to control the amount of illumination of said devices, means to detachably carry a record-making instrument, and means to support said record-receiving means upon any suitable carrier.

4. In a device of this character, the combination of means to removably support record-receiving blanks, means detachable from said supporting means to illuminate said record-receiving blanks, means to removably carry a record-making instrument, rotatable means carried upon said illuminating means to control the amount of illumination directed to said record-receiving blanks, and means to support said record-receiving blanks upon any suitable carrier.

5. In a device of this character, the combination of means to removably support record-receiving blanks, means detachable from said supporting means to illuminate said record-receiving blanks, means to removably carry a record-making instrument, rotatable means carried upon and detachable from said illuminating means to control the amount of illumination directed to said record-receiving blanks, and means to support said record-receiving blanks upon any suitable carrier.

6. In a device of this character, the combination of means to removably support record-receiving blanks, means detachable from said supporting means to illuminate said record-receiving blanks, means to removably carry a record-making instrument, means, rotatable, and carried upon said illuminating means, to control the amount of illumination of said record-receiving blanks, means to support said record-receiving means upon any suitable carrier, and means to lock said record-receiving supporting means upon said carrier in operative position.

7. In a device of this character, the combination of means to removably support record-receiving blanks, means detachable from said supporting means to illuminate said record-receiving blanks, spring-fingers adapted to removably hold a record-making instrument, rotatable perforated means mounted on and detachable from said illuminating means to control the amount of illumination of said record-receiving blanks, and means to support the aforesaid specified device upon a suitable carrier.

8. In a device of this character, the combination of substantially plate-like means to removably support record-receiving blanks,

spring-members to hold said record-receiving blanks removably in said support, means detachable from said supporting means to illuminate said record-receiving blanks, means integral with said plate-like supporting means, to reflect illumination to said blanks, spring-fingers adapted to detachably hold a record-making instrument, rotatable means mounted on said illuminating means and detachable therefrom to control the amount of illumination directed to said record-receiving blanks and means to support said record-receiving blanks in combination with any suitable carrier.

9. In a device of this character, the combination of substantially plate-like means to removably support record-receiving blanks, means to hold said record receiving blanks removably in said support, means detachable from said supporting means to illuminate said record-receiving blanks, means substantially semi-cylindrical, integral with said plate-like supporting means, at one end thereof, to reflect illumination to said blanks, gripping-members adapted to removably hold a record-making instrument, means mounted on and detachable from said illuminating means to control the amount of illumination directed to said record-receiving blanks, means to support said record-receiving blanks on any suitable carrier, and means to lock said supporting means in operative position on said carrier.

10. In a device of this character, the combination of a substantially plate-like means to removably support record-receiving blanks, spring-gripping-members to hold said record-receiving blanks in said support, angularly bent-up members integral with said plate-like members, at the opposite lateral edges thereof to retain said blanks in operative position, means to illuminate said blanks, substantially semi-cylindrical shaped reflecting means integral with said plate-like supporting means to reflect illumination to said blanks, said illuminating means being substantially encased within said semi-cylindrical reflecting means, spring-fingers adapted to removably carry a record-making instrument, rotatable means mounted on and detachable from said illuminating means to control the amount of illumination directed to said record-receiving blanks, and means to support said record-receiving blanks upon any suitable carrier.

Signed at the city of New York, borough of Manhattan, State of New York, this 27th day of May, 1926.

CHARLES J. NECHAMKIN.
SAMUEL COHEN.