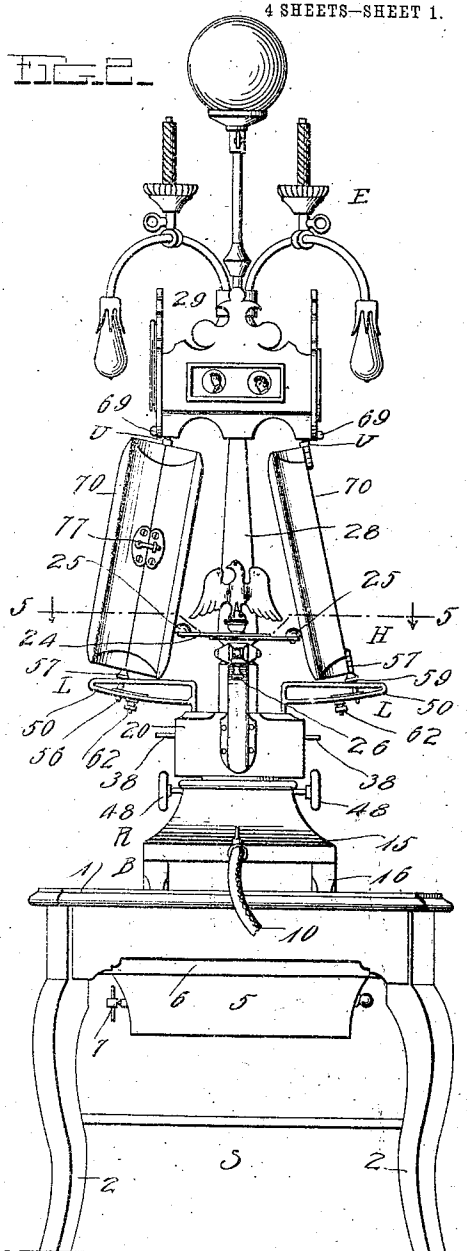
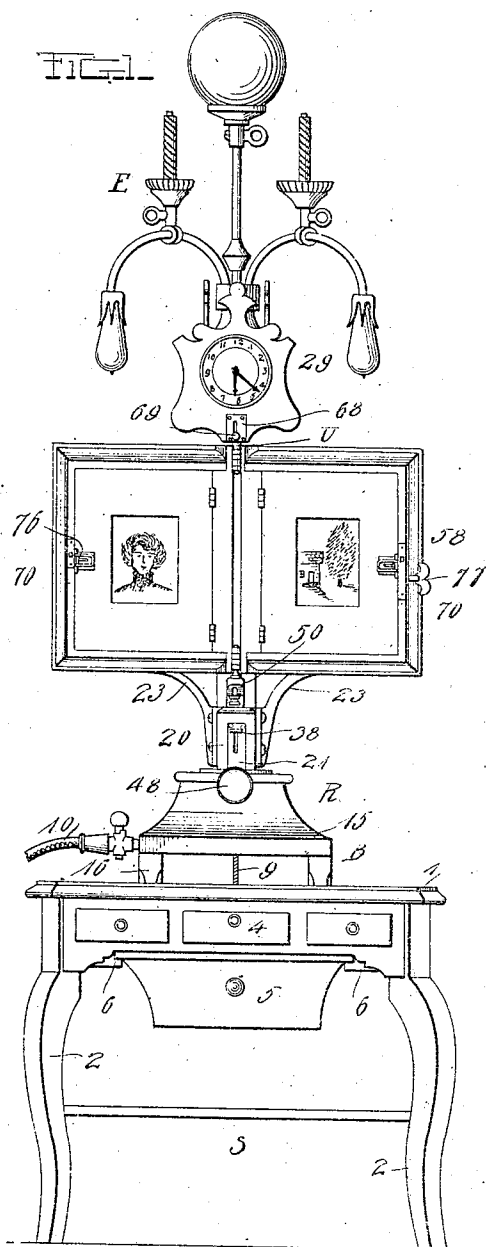


G. POLVERINO.
ALBUM BOOK STAND.
APPLICATION FILED OCT. 5, 1911.

1,017,460.

Patented Feb. 13, 1912.

4 SHEETS—SHEET 1.



Inventor

G. Polverino.

Witnesses
J. P. Pica

N. L. Collamer

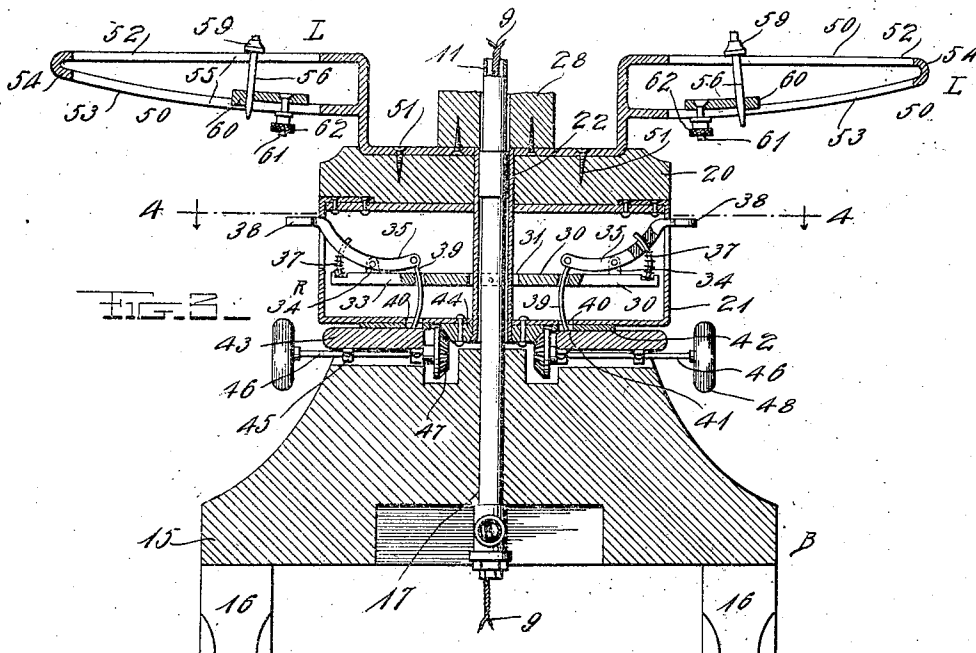
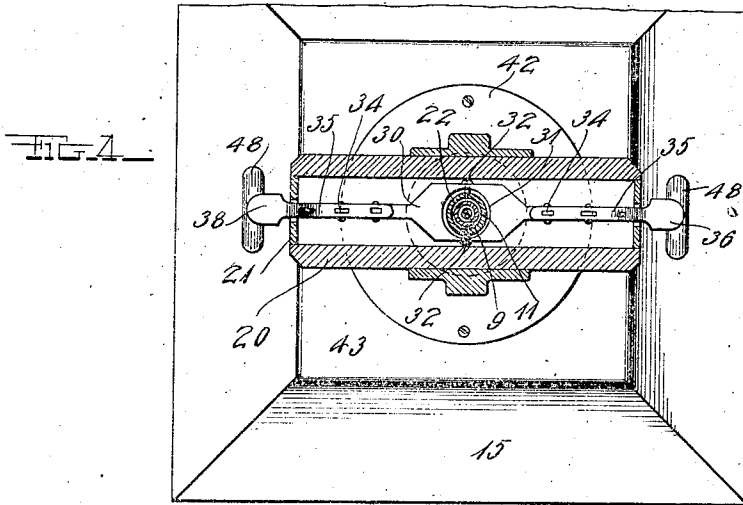
By *A. B. Wilson & Co.*
Attorneys

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4 SHEETS—SHEET 2.



Inventor
G. Polverino.

Witnesses
J. R. Pierce

N. L. Collamer

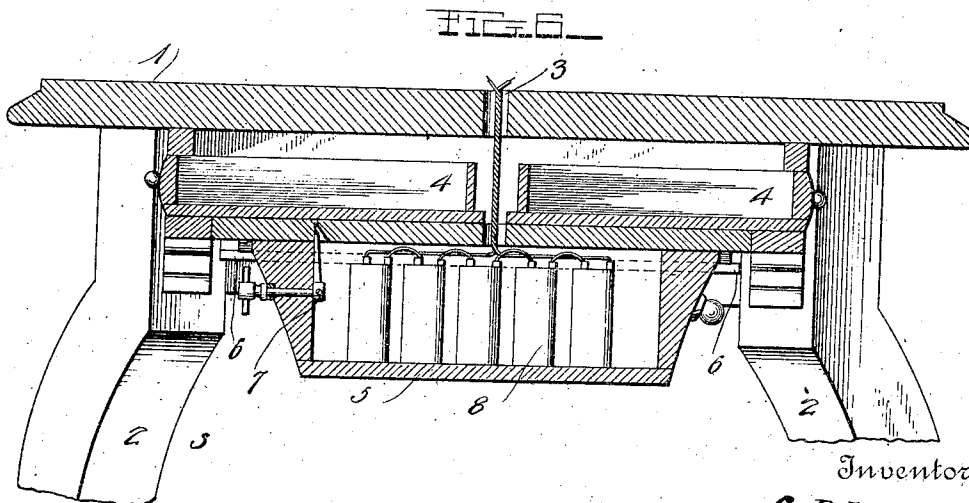
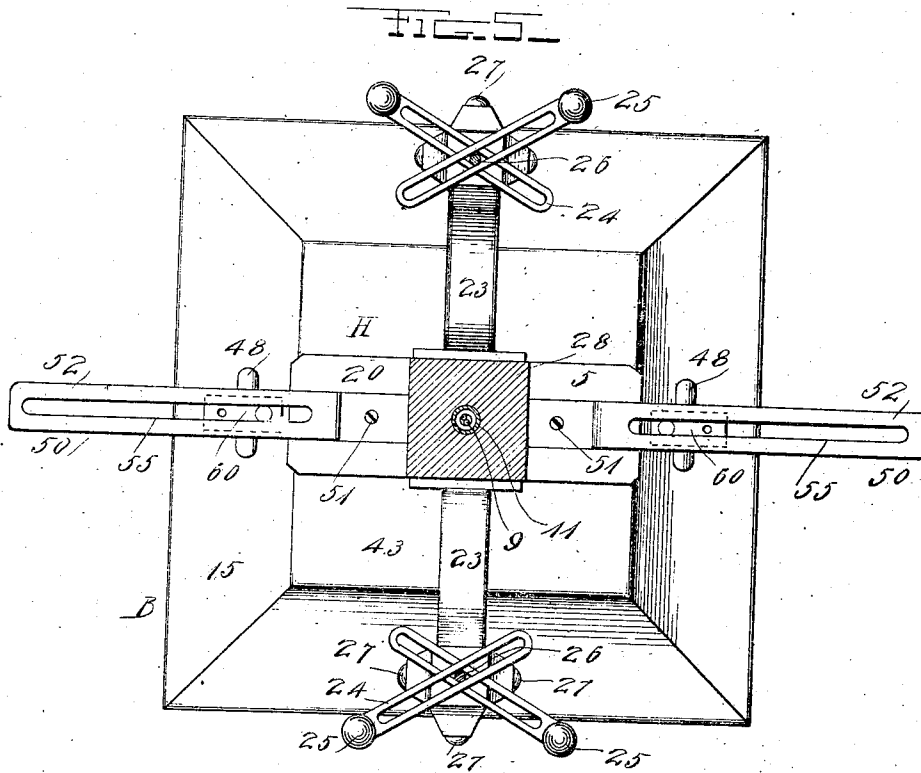
By *H. B. Wilson & Co.*
Attorneys

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4 SHEETS—SHEET 3.



Witnesses
J. P. Pura

N. L. Koblauer

Inventor
G. Polverino

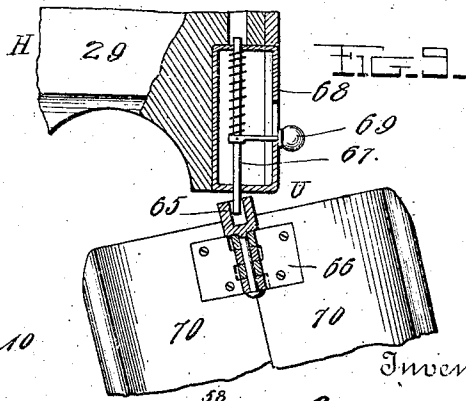
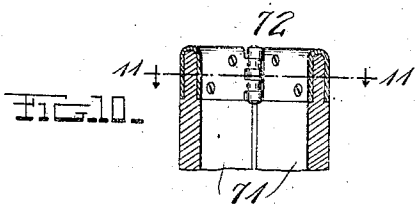
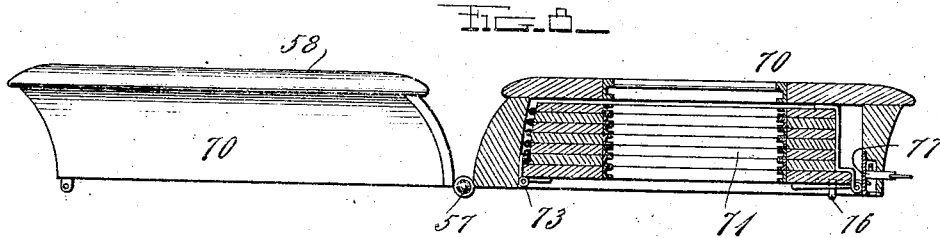
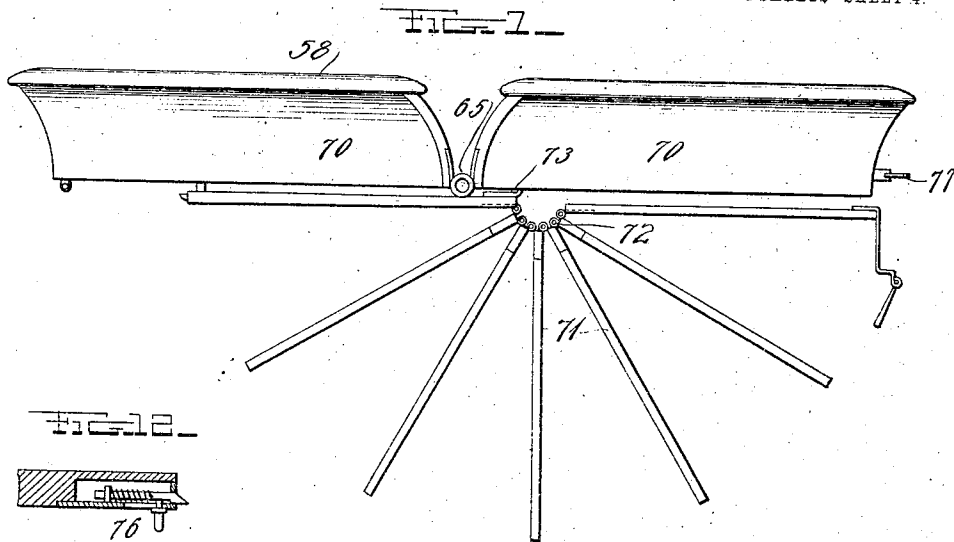
By *A. B. Wilson & Co.*
Attorneys

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4 SHEETS—SHEET 4.



Witnesses
J. P. Pierce

N. L. Collamer

by *A. B. Wilson & Co.*
Attorneys

Inventor
G. Polverino.

UNITED STATES PATENT OFFICE.

GIUSEPPE POLVERINO, OF NEW YORK, N. Y.

ALBUM BOOK-STAND.

1,017,460.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed October 5, 1911. Serial No. 653,031.

To all whom it may concern:

Be it known that I, GIUSEPPE POLVERINO, a subject of the King of Italy, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Album Book-Stands; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to furniture, and more especially to book holders; and the object of the same is to produce a base-supported rotary book-stand, associated with other features which make the article of furniture ornamental and useful, as for instance lights by means of which the pages of the books or albums can be seen.

To this end the invention consists in the general combination of instrumentalities hereinafter more fully described, and particularly in the details of construction of the book holder whereby it may be bodily rotated upon its support so that a user who is sitting can turn the device at will.

The whole is set forth in detail in the following specification and shown in the accompanying drawings wherein—

Figure 1 is a side elevation and Fig. 2 an edge elevation of this device complete; Fig. 3 is an enlarged central vertical section through the base showing more clearly the details of construction of the rotating mechanism, and Fig. 4 is a cross section on the line 4—4 of Fig. 3; Fig. 5 is an enlarged horizontal section on the line 5—5 of Fig. 2; Fig. 6 is an enlarged vertical section through the support; Fig. 7 is a plan view and Fig. 8 a horizontal section through one of the books or albums; Fig. 9 is an enlarged sectional detail of the detachable upper hinge for one of said albums; Figs. 10 and 11 are details, the former taken on the line 10—10 of Fig. 11, and the latter taken on the line 11—11 of Fig. 10; Fig. 12 is a sectional detail of the catch 76 to be referred to hereinafter.

In the accompanying drawings the letter S designates a support which in the present instance is a stand although it might be some other member, B is a base resting thereon, R is the rotating mechanism for the book-holder H which latter includes an upper hinge U and the lower hinge L and the necessary adjuncts, and E designates

broadly the lighting system. The details of all these various parts will be explained to an extent necessary to bring out the specific features of the invention.

The support S (see Figs. 1, 2 and 6) is here shown as a table whose top 1 is mounted on legs 2 and pierced with a hole 3 for passage of the light-supplying mechanism. Beneath said top 1 in the present instance are shown drawers 4 and beneath them in turn a special drawer 5 sliding on guides 6 and having a catch 7, this drawer here illustrated as containing a battery 8 which is a series of dry cells, from which the wires 9 lead up through the hole 3 and eventually reach the lights E at the top of the device although gas might be admitted through a hose 10 and passed upward through a pipe 11 to gas burners, or in fact both electric and gas light might be employed. The lighting system E is disposed at the top of the entire device and it may be of any suitable description, but I consider it particularly useful with a book holder because its lights shine upon the leaves of the books or the pictures in the albums.

The base B is superimposed upon the support S, and in the present instance consists of a body 15 mounted on feet 16, the body having a central upright opening or bore 17 for the passage of the devices which supply the light; and by preference this base is made rather heavy so that, whether resting on a table top or upon a floor as it might in some cases, it will reliably support the book-holding mechanism and rotating mechanism yet to be described and will not be likely to be tipped over.

The book holder H comprises a hollow block mounted revolvably upon the base B and containing the rotating mechanism R, the lower hinges L carried by said block, and a standard rising from the latter and supporting the upper hinges U; and by preference these parts are of the following specific description. The block 20 may be rectangular in configuration and its lower portion is made hollow so as to contain the metallic casing 21 best seen in Fig. 3, and upward through the center of this casing passes a tube 22 which rotates around the central spindle that in the present instance is the pipe 11. At opposite sides said block by preference carries brackets 23 on which are mounted loops 24 having soft buttons or heads 25 at their outer ends for a purpose

to appear below, the loops preferably crossing each other under a set screw 26 so that they may be set at any angle as desired. The brackets may also contain immovable heads 27 on their various sides which are also soft. From the center of said block 20 rises the tubular standard 28 through which the pipe 11 projects, and this standard at its upper end carries an ornamental head 29 which forms the support for the chandelier containing the lights and is here illustrated as also carrying a thermometer, a clock, and picture frames for portraits or the like. The rotating mechanism R best seen in Fig. 3 is located almost entirely within the casing 21 of said block 20.

The numeral 30 designates a plate having at its center a hole 31 which loosely incloses the tube 22 and is pivoted thereto at opposite sides as seen at 32 in Fig. 4, and on opposite sides this plate has rigid arms 33 which are of like construction. Rising from each arm is an ear 34 in which is pivoted a lever 35 whose outer end is held normally raised by a spring 36 and whose outer extremity projects through a slot 37 in the casing 21 and carries a thumb piece 38, while its inner extremity carries a pin 39 which extends down through the arm 30, through a hole 40 in the bottom of the casing 21, and is adapted to take into a second hole 41 in a plate 42 which is fixed upon the top 43 of the base B. The construction being duplicated at the opposite side of the center, as seen in Fig. 3, when one thumb piece 38 is depressed and the lever turned on its pivot against the tension of its spring 36, the first result is that its pin 39 is raised out of the hole 41 and later out of the hole 40, and the second action is that the further depression of the thumb piece causes this arm 33 to descend and the plate 30 to turn on the pivots 32 so that the arm and pin at the other side of the center are raised and therefore both pins 39 disengage the holes 41 in the plate 42. Secured to the bottom of the casing 21 around the tube 22 is a gear wheel 44, and journaled in bearings 45 beneath the top 43 of the base B is a radial shaft 46 having a gear wheel 47 at its inner end engaging that numbered 44, and having a knob or handle 48 at its outer end by means of which this shaft may be rotated. Obviously its rotation is transmitted through the intermeshing gears to the block 20 so that the latter and with it the standard and all parts carried thereby are rotated relatively to the fixed base. In the drawings I have illustrated two such shaft 46 with knobs 48, and it is quite obvious that the base could be supplied with several although two are sufficient. This rotating mechanism permits the user to take a seat at one side of the entire device, inspect the book or album nearest him as the

lights will permit, and then depress the thumb piece 38 and turn the knob 48 so that by means of the rotating mechanism he can swing the entire device around upon the base and bring the other book or album into position to be inspected. In the embodiment of my invention herewith illustrated, I have shown it as applied to a small device adapted as an ornament for a room of ordinary size, but it will be clear that it could be built on a much larger scale so that there would be quite a number of book holders and books; and if there were several shafts 46 and knobs 48 there would be a corresponding number of points where the several spectators could be located, and they might all use the device simultaneously. I might here say also that as the book holders are duplicates of each other, I will describe but one.

The lower hinge L best seen in Figs. 3 and 5 comprises a metallic bracket 50 secured as at 51 upon the top of the block 20 or to some part of the rotating mechanism and having two outwardly projecting arms 52 and 53 connected at their outer ends as at 54 into the form of a loop whose upper side consisting of the arm 52 stands preferably about horizontal and whose lower side consisting of the arm 53 may incline upward and outward a little as seen in Fig. 3. Both arms are longitudinally slotted as at 55, and through the slots extends a pin 56 which may be a projection of the pintle of the lower hinge 57 which holds together two halves of an album 58 as best seen in Fig. 1, and said pin has a shoulder 59 resting on the upper arm 52 as best seen in Fig. 3. The lower end of the pin projects downward through the loop and extends through the lower slot as here shown, and between the arms 52 and 53 this pin passes through a plate 60 which slides on the lower arm 53 and itself has a screw 61 whose shank projects through the slot in the lower arm and carries a thumb nut 62 at its lower extremity. It is obvious that by loosening this nut upon the screw 61, the entire plate 60 and with it the pin 56 can be moved outward or inward along the bracket 50 (as will be clear by an inspection of Fig. 2) so that the angle of the book or album can be adjusted to suit the need of the spectator or user. The upper hinge U best illustrated in Fig. 9 consists of a socket 65 which may well be formed as an extension of the pintle of the upper hinge 66 between the two halves of an album as described, and a spring-actuated bolt 67 mounted in a casing 68 carried by the head 29 and having a handle 69 by which it may be retracted or elevated to disengage its tip from the socket 65. Obviously the projecting tip of this bolt 67 should rather loosely engage the socket so that when the lower hinge is adjusted out-

ward or inward along the bracket 50 the upper hinge can rock to the degree necessary and meanwhile either or both leaves of an album or all the leaves of a book may be turned over on these two hinges in a manner which will be clear. If the book carried by this device be of the ordinary type the upper and lower hinges above referred to will be secured to its back or to some part to which the back of the book is attached; but ordinarily I prefer to employ albums as has been suggested, and one of these is shown in Figs. 7 and 8 with its hinges in Figs. 10 and 11. Said album will be made in two halves 70, each having a group of leaves 71 (here shown as frames for containing photographs and the like), and the leaves will be hinged to each other as shown at 72 and the entire group of leaves hinged within this half of the album as shown at 73. Thus when the two halves of the album are opened as seen in Fig. 7, all of the leaves 71 in one group or bank may be turned around their communicating hinges 72 as illustrated in this view; and after the pictures on these leaves have been inspected, the leaves may be again housed in this half of the album as seen in Fig. 8 and the pictures on the leaves in the other group inspected. Thereafter the two halves may be closed (see the album at the left of Fig. 2) and latched together at their outer edges by the latch 77 best seen in Fig. 8. For holding all the leaves in one group or bank the catch 76 may be employed as seen in Fig. 12. These and other details will not need further amplification in the present specification, and reserve the right to make such changes therein as will not depart from the gist of my invention. The latter, as will be clear, consists principally of a base and standard supporting a lighting system, a book-holder comprising upper and lower special hinges and a block carrying the holder and rotatably mounted upon the standard or upon some part thereof, and rotating mechanism between said book holder and the base whereby the former may be turned by the user or spectator. The other details of construction are used by preference in conjunction with the principal features of this invention; for instance, it may be well to provide the table top with a special drawer for the electric storage battery 8 at places where the ordinary city current will not be supplied to the electric bulbs, and it may be well also to feed gas through a rubber hose 10 which can lead from the city gas service pipes if convenient or from any other source of gas supply.

What is claimed as new is:

1. In a book stand, the combination with a series of book holders, a hollow block on which they are supported, and a central upright within the block, the bottom of the latter having a series of holes around the up-

right; of a base upon which the block is rotatably mounted, its top having a series of holes concentric with those in the bottom of the block, a plate supported by said standard so as to rock thereon, a plurality of arms projecting radially from said plate, and on each arm a spring-actuated catch having at one end a pin adapted to engage said holes when they register and at its other end a thumb piece projecting to the exterior of the block, for the purpose set forth.

2. In a book stand, the combination with a plurality of book holders, a block upon which they are supported, and a base upon which the block is rotatably mounted; of the gear wheel secured to said block, a shaft journaled in the base, a gear wheel fast on the inner end of the shaft and meshing with that on the block, a knob at the outer end of the shaft, a plate carried by the block and having holes, and a series of catches carried by the block each having a pin adapted to engage the holes in said plate and a projecting thumb piece for the purpose set forth.

3. In a book stand, the combination with a series of book holders, a hollow block on which they are supported, and a base on which the block is rotatably mounted; of rotating mechanism between said block and base comprising means for permitting the manual rotation of the block, the bottom of the latter and the top of the base having a series of holes adapted to register, and a plurality of spring-actuated catches disposed within the hollow body of the block and each having a pin adapted to engage said holes when they register and a thumb piece projecting to the exterior of the block, for the purpose set forth.

4. In a book stand, the combination with a series of book-holders, a block on which they are mounted, a hollow casing within the block, an upright tube through the casing, the latter having a series of holes in its bottom, a base whose top plate has a series of holes adapted to register with those just mentioned, and an upright through the center of said base and passing loosely through said tube; of means in its base for rotating the block by hand, a plate within said casing having a hole loosely surrounding said tube and pivoted at opposite sides thereto, arms projecting oppositely from said plate at right angles to its pivot, and on each arm a spring catch having at one end a pin adapted to engage said holes when they register, and a projecting thumb piece for the purpose set forth.

5. In a book stand, the combination with a series of book holders, a block on which they are mounted, a hollow casing within the block, an upright tube through the casing, the latter having a series of holes in its bottom, a base whose top plate has a series of holes adapted to register with those just

mentioned, and an upright through the center of said base and passing loosely through said tube; of means in its base for rotating the block by hand, a plate within said casing having a hole loosely surrounding said tube and pivoted at opposite sides thereto, arms projecting radially from said plate at right angles to its pivots and each having a perforation, an ear on each arm, a lever pivoted between its ends to said ear, a pin connected to its inner extremity and passing through said perforation and adapted to engage said holes when they register, an expansive spring between the arm and the outer end of said lever, and a thumb piece at the outer extremity of the lever projecting through a slot in the outer wall of the casing.

6. In a book stand, the combination with a series of book holders, a block on which they are mounted, a hollow casing within the block, an upright tube through the casing, the latter having a series of holes in its bottom, a base whose top plate has a series of holes adapted to register with those just mentioned, and an upright through the center of said base and passing loosely through said tube; of means in its base for rotating the block by hand, a plate within said casing having a hole loosely surrounding said tube and pivoted at opposite sides thereto, arms projecting from said plate at right angles to its pivots and each having a perforation above said series of registering holes, pins passing downward through the latter and adapted to engage said holes when they register, and rock levers mounted on the arms and each connected at its inner end with one of said pins and having at its outer end a thumb piece projecting outside said casing whereby the depression of one thumb piece will rock its lever to raise its pin and then rock said plate on its pivots to elevate the opposite arm and thereby raise its lever and pin.

7. The herein described rotating mechanism for the purpose set forth comprising a fixed base having a central upright, a plurality of radial shafts journaled in said base, gear wheels at their inner ends and knobs at their outer ends, a top plate on the base having a series of holes around said upright; of a block having a central upright tube journaled around the upright and its bottom provided with a series of holes registering with those in said plate, a gear wheel secured around said tube and meshing with the gears at the inner ends of said shafts, a series of latches carried by the block and each having a pin adapted to engage a pair of said holes when they register and a thumb

piece at its projecting outer end, and connections between said latches whereby the movement of one to disengage its pin from a pair of registering holes simultaneously moves those remaining so as to produce the same result.

8. A book holder comprising a supporting member having a standard rising therefrom and carrying a head; an upper member including a hinge to whose leaves the book is attached, a socket on its pintle, and a spring-actuated bolt on said head loosely engaging said socket; and the lower member consisting of a hinge whose leaves are attached to the book, a pin projecting downwardly from its pintle, a bracket carried by said supporting member and having a slot in which the pin is mounted, and means for adjusting the position of the pin therein.

9. A book holder comprising a supporting member having a standard rising therefrom and carrying a head; an upper member including a hinge to whose leaves the book is attached, a socket on its pintle, and a spring-actuated bolt on said head loosely engaging said socket; and the lower member consisting of a hinge whose leaves are attached to the book, a pin projecting downwardly from its pintle, a bracket carried by said supporting member and having a slot in which the pin is mounted, a plate having a hole through which said pin projects, the plate resting on said bracket, a screw carried by the plate and projecting through the slot therein, and a thumb nut on said screw.

10. A book holder comprising a supporting member having a standard rising therefrom and carrying a head; an upper member including a hinge to whose leaves the book is attached, a socket on its pintle, and a spring-actuated bolt on said head loosely engaging said socket; and the lower member consisting of a hinge whose leaves are attached to the book, a pin projecting downward from its pintle, a loop-shaped bracket carried by said supporting member and having upper and lower arms slotted radially to the supporting member, the pin projecting through the slots in both arms, a shoulder on the pin mounted slidably on the upper arm, and means adjustably mounted on the lower arm for permitting the adjustment of the position of the pin in the block thereof.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GIUSEPPE POLVERINO.

Witnesses:

JOSEPH D. ALBORA,
CHRISTOBALO NATOLI.