(No Model.)

D. D. BOWMAN.

REVOLVING BOOK STAND.

No. 300,203. Patented June 10, 1884.

Fig. 1.

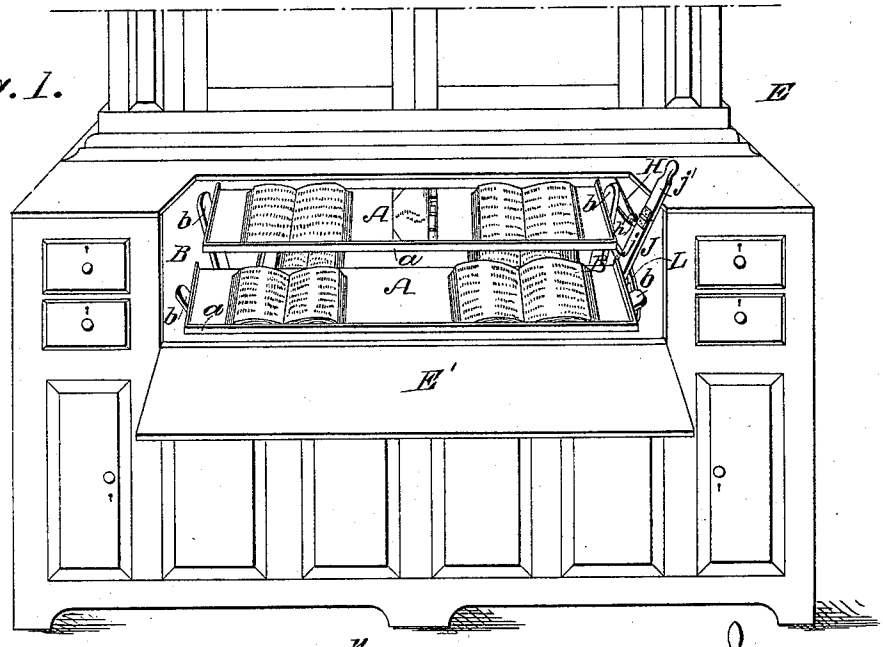


Fig. 2.

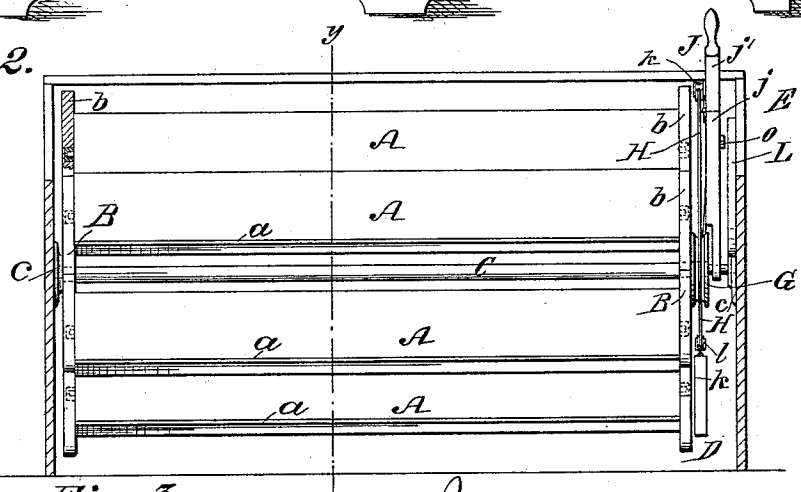


Fig. 3.

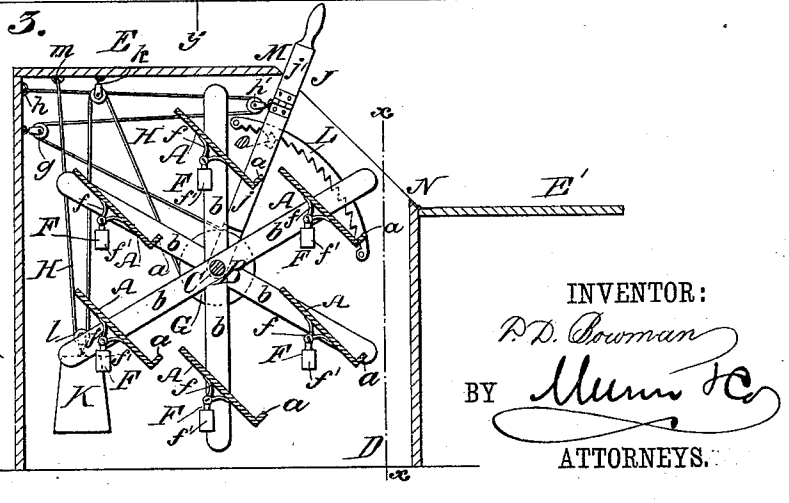
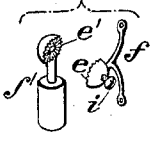


Fig. 4.



WITNESSES:

John A. Deemer

C. Sedgwick

INVENTOR:

D. D. Bowman

BY Munn & Co

ATTORNEYS.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

DAVID D. BOWMAN, OF EUREKA, CALIFORNIA.

REVOLVING BOOK-STAND.

SPECIFICATION forming part of Letters Patent No. 300,203, dated June 10, 1884.

Application filed August 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, DAVID D. BOWMAN, of Eureka, in the county of Humboldt and State of California, have invented a new and Improved Revolving Book-Stand, of which the following is a full, clear, and exact description.

My invention relates to improvements in revolving book-stands; and it consists in the peculiar construction and arrangement of parts as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a book-case or secretary provided with my new revolving book-support. Fig. 2 is a sectional elevation of the same, taken on the line *x x* of Fig. 3. Fig. 3 is a cross-sectional elevation taken on the line *y y* of Fig. 2; and Fig. 4 shows in perspective and in detail one of the adjustable weights used upon the shelves.

A A represent the shelves of my revolving book-support, on which the books desired for use are placed, as illustrated in Fig. 1. These shelves A A are journaled in and between the spiders B B, or, rather, the arms *b b* thereof, which spiders are rigidly secured upon the shaft C, which is adapted to be journaled in suitable bearings, *c c*, secured in the lower inclosure, D, of the book-case or secretary E, or other suitable inclosure or stand. The shelves A A are each provided with flanges *a* for holding the books in place, and the shelves are feathered in this instance by means of the counter-weights F, attached to the backs of the shelves, that hold the shelves always at the proper position—that is, always facing the reader, no matter what position the shelves may occupy with respect to the shaft C, whether above or below or in front or rear of it, or whether the shaft be turned forward or backward. The weights F might be ordinary weights, and they might be attached to the shelves in any ordinary way; but I prefer to adapt them to be adjusted so that the inclination of the shelves A A may be changed as desired by changing the weights, and this I may accomplish by adapting the weights to slide or to be easily detached from the shelves and attached again in a different position, or by using an eccentric weight adapted to be turned to different positions; but I prefer to accomplish it by making the weights F in two parts—viz., the attaching or bracket part *f* and the separate weight part *f'*—these two parts being adapted to be secured together in different positions by means of the thumb-screws *i*, so that by loosening the thumb-screws the weight parts *f'* may be turned backward or forward upon the screws *i* as pivots, for diminishing or increasing the slant of the shelves, the backward movement serving to diminish, the forward movement to increase, the slant of the shelves. To prevent all danger of the weight parts *f'* slipping when put in the proper position and held by the thumb-screws, I prefer to serrate the contact-faces *e e'* of the parts *f f'* of the weights, as will be understood from Fig. 4.

Upon the shaft C is fixed the pulley G. Over this passes the strong cord H, which passes (at one end) thence over the pulley *g*, attached to the back of the inclosure D upon the inside, thence over the pulley *h'*, attached to the operating-lever J, and thence to the staple *h*, driven into the back of the inclosure D, above the pulley *g*, to which staple it is secured. The other end of the cord H passes from the pulley C first up over the pulley *k*, secured to the top of the inclosure D, thence over the pulley *l*, secured to the heavy weight K, and thence to the staple *m*, driven into the top of the inclosure, just back of the pulley *k*. The lever J is fulcrumed by preference upon the shaft C, and is so arranged with reference to its distance of movement and to the size of the pulley G that by moving it from the point M to the point N it will cause the cord H, passing over pulley G, to turn the shaft C and cause it to make a complete revolution, bringing all of the shelves A A successively to the front. This movement of lever J and cord H will at the same time elevate the weight K, so that, upon letting the lever J back, the weight K, through cord H, will act to turn the shaft C in the reverse direction through one complete revolution. By holding the lever J at intermediate points between the points M N, it will be seen that any one of the shelves, with its book or books, may be stopped and held in front of the reader, and for holding the lever

J at any desired position for thus holding the shelves in front, I provide the inclosure D with the segmental rack L and the lever with the sliding spring-actuated pawl *o*, that is adapted to engage with the rack, as will be understood from Fig. 3. The lever J is made of the two parts *j j'*, which are hinged together, as shown, so that the upper part, *j'*, may be folded down within the inclosure D when it is desired to close the lid or shelf E' of the book-case or secretary.

Constructed in this manner, it will be seen that the revolving book-support is especially serviceable where several authors are to be consulted, as the desired volumes may be selected and placed open upon the shelves A, where they are at once ready to be brought to position for easy reference by simply operating the lever, without any further handling and without the reader having to leave his seat or change his position. This effects a saving in time and saves much wear and tear upon the books due to constantly opening and closing them and handling them, and the annoyance of having to support the books or various objects that can be brought about the reader or writer is overcome. Besides these advantages, the revolving book-support is cheap, durable, not liable to get out of order, and is practical for its purpose.

I do not abandon or dedicate to the public any patentable features set forth herein and not hereinafter claimed, but reserve the right to claim the same either in a reissue of any patent that may be granted upon this application or in other applications for Letters Patent that I may make.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a revolving book stand or support, the combination, with a series of revolving spiders and means for revolving them, of a series of shelves journaled between the arms of the spiders, and adjustable weights attached to the back of the shelves, substantially as and for the purpose set forth.

2. In a revolving book stand or support, the combination, with the revolving spiders B and shelves A, journaled between their arms, of the bracket *f*, provided with the serrated face *e*, having thumb-screw *i*, and the serrated and apertured face *e'*, having weight *f'* attached, substantially as herein shown and described.

3. In a revolving book-support, the shaft C, provided with the spiders B B, in combination with the pivoted and weighted shelves A, lever J, weight K, cord H, and suitable pulleys arranged for turning the shaft C, substantially as described.

4. In a revolving book stand or support, the combination, with the case E, the shaft C, journaled therein, and provided with the spiders B and the pivoted and weighted shelves A, of the pulleys G *g h h'*, the weight K, the cord H, the lever J, and means for locking said lever in position, substantially as herein shown and described.

5. In a revolving book stand or support, the combination, with the case E, having the hinged lid or shelf E', and a series of revolving shelves journaled in said case, of the operating-lever J, made in two parts, hinged together within the case, substantially as and for the purpose set forth.

DAVID D. BOWMAN.

Witnesses:
CHAS. E. CARTER,
FRED. W. BELL.