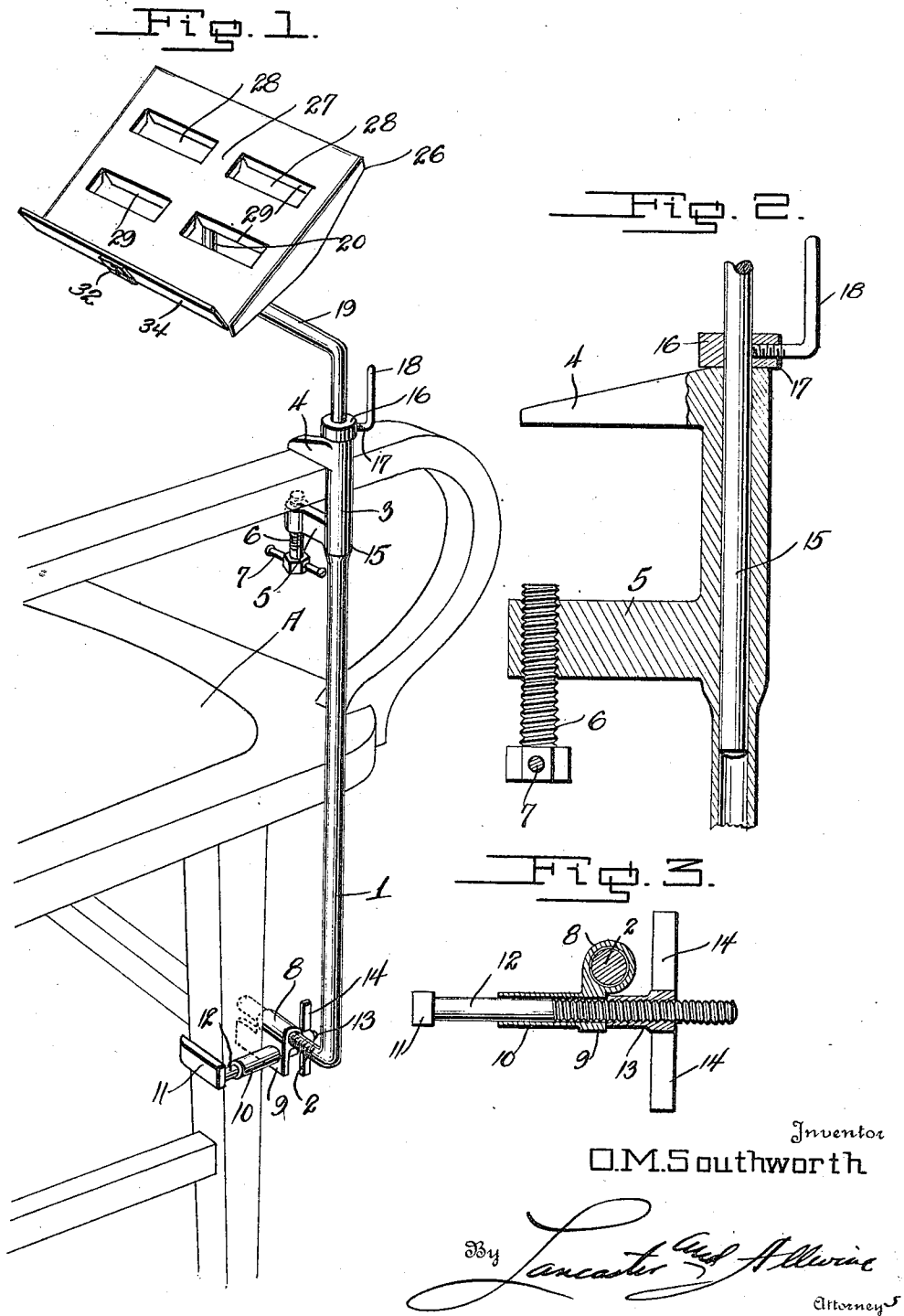


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 APPLICATION FILED JULY 30, 1917.

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Patented Oct. 15, 1918.
 2 SHEETS—SHEET 1.



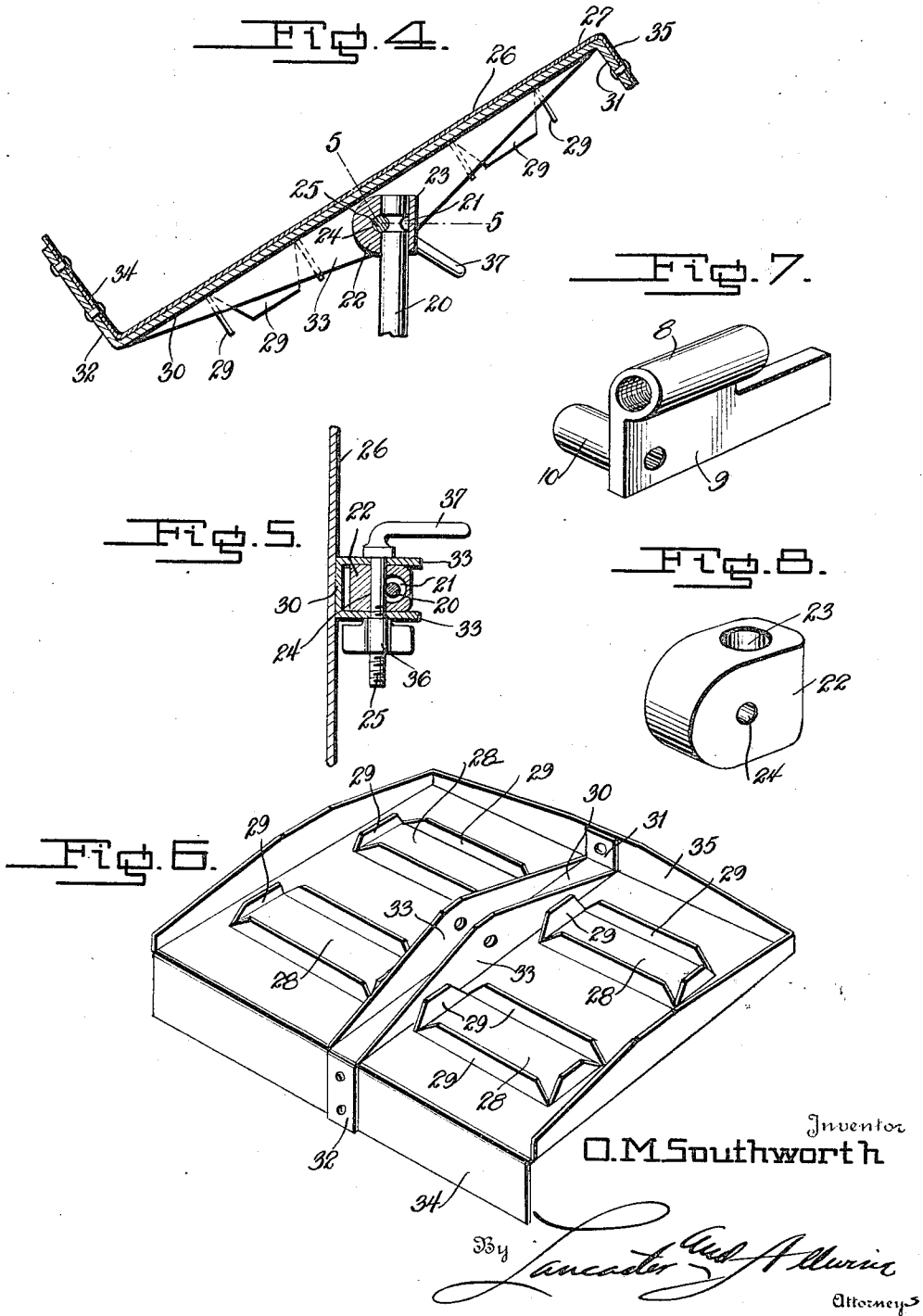
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UNITED STATES PATENT OFFICE.

OLIVER M. SOUTHWORTH, OF BOYNTON, OKLAHOMA.

BOOK-HOLDER.

1,281,682.

Specification of Letters Patent.

Patented Oct. 15, 1918.

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To all whom it may concern:

Be it known that I, OLIVER M. SOUTHWORTH, a citizen of the United States, and a resident of Boynton, in the county of Muskogee and State of Oklahoma, have invented a certain new and useful Improvement in Book-Holders, of which the following is a specification.

This invention relates to book supports and a primary object of the invention is to provide a device for attachment to a chair and adapted to support a book whereby it may be held in a convenient position at the front of the reader who may easily adjust the holder so that the book will be held without the use of the reader's hand and in a position where the light strikes the book in the most advantageous manner.

One of the principal objects of the invention is to provide an adjustable support specially adapted to be attached to any type of chair, and, which will permit, after the adjustment has been obtained, the rack for the book to be raised or lowered as desired by the reader.

The invention also includes further novel features of construction as will presently appear; is simple and easy to operate and inexpensive to manufacture.

In the drawing:

Figure 1 is a perspective view showing the attachment applied to a chair.

Fig. 2 is a fragmentary longitudinal section through the holder.

Fig. 3 is a transverse section through the lower clamping element.

Fig. 4 is a transverse section through the book-rack.

Fig. 5 is a detail section on the line 5—5 of Fig. 4.

Fig. 6 is a detail perspective view of the rack showing the construction thereof.

Fig. 7 is a detail perspective view of part of the gripping elements in the lower clamp, and

Fig. 8 is a detail perspective view of the swivel block for the rack.

Referring to these drawings, wherein is illustrated the preferred form of my invention, and in which like characters of reference indicate corresponding parts throughout the several views, the standard 1 is of tubular formation and may be of any convenient length. One end of the standard terminates in a solid stem which is turned at right angles and is screw-threaded to

form a clamp supporting arm 2. The opposite end of the standard is slightly enlarged forming a sleeve 3 and the interior bore of the standard extends through the sleeve and opens at its upper end. The sleeve 3 forms a part of the upper clamp and has a right angularly projecting arm 4 at the upper extreme terminal of the sleeve. Slightly below this arm 4 and extending from the sleeve 3 is a clamp arm 5, the end of which is provided with a vertical screw-threaded opening for receiving a clamp screw 6, the head of which is provided with a turning bar 7.

Mounted on the arm 2 is a sleeve 8 which is freely movable on the arm 2 so that it may be adjusted by rotating on the arm, the interior of the sleeve being provided with screw threads meshing with the screw threads on the arm 2. Depending, tangentially, from the sleeve is a flange 9, one end of which projects beyond the end of the sleeve as is shown to advantage in Fig. 7 of the drawing. This flange 9 forms one of the clamping arms for the lower clamp which, as shown, is engaged with the leg of the chair A. Integrally formed with the flange and projecting at right angles therefrom is a tubular casing 10, the interior bore of which is smooth, as shown in Fig. 3 of the drawing. A clamp arm 11 is also employed with this lower clamp and coöperates with the arm 9 to grip the leg of the chair. This clamp arm 11 is provided with a stud or rod 12 which is adapted to extend through the casing 10 and protrudes considerably beyond the arm 9 of the clamp, the latter having a convenient opening for this purpose. A nut 13 is mounted on the screw-threaded end of the rod 12 and has diametrically opposite finger grips 14 for the purpose of facilitating manipulation of the nut 13. It will be observed that the lower clamp is mounted upon the rod 12 in a manner that will permit all of the elements of the clamp to be swung from one side to the other for the purpose of attaching it to different chair legs.

An elongated shank 15 fits within the bore of the casing 1 and projects considerably above the upper end of the same, at which point it is provided with a collar 16 adapted to be fixed to the shank 15 by a set-screw 17. Instead of having the usual head, this set screw 17 is provided with a handle bar 18 to facilitate the rotation of the set-screw for

fastening the collar securely to the shank 15. The collar 16 is slidably adjustable on the shank 15 and the latter may be moved vertically to obtain the necessary adjustment.

5 An extension arm 19 is formed from a right-angularly bent portion of the shank 15 and the end of this extension is again bent at right angles to provide a pintle 20 shown to advantage in Fig. 4 of the drawing. Near

10 the free end of the pintle 20 is an annular groove 21, and embracing this end is a swivel block 22 illustrated in Fig. 8 of the drawing. The swivel block has an opening 23 for the reception of the pintle 20 and a

15 transverse opening 24 communicates with this opening 23 and receives a locking pin 25. The openings 23 and 24 in the swivel block are so relatively situated as to permit the pin 25 to project through the annular

20 groove for retaining the swivel block in position on the end of the pintle 20, securely holding the block to the pintle but permitting the free swinging movement of the same.

25 The book rack or shelf, indicated generally at 26, is adapted to be mounted upon the swivel block 22 and is preferably constructed from thin metallic material, the same being shown in detail in Fig. 6 of the

30 drawing. This rack or shelf includes the plate 27 of substantially rectangular formation and has elongated slots or openings 28 formed by cutting and pressing outwardly the central portions of the plate, these portions forming ribs 29 assuring the shelf

35 against bending. A central transverse portion of this plate is left intact as shown in Figs. 1 and 6, and a reinforcing strip 30 is attached to this strip through the medium of

40 the end flanges 31 and 32. The longitudinal edges of the reinforcing strip 30 are provided with angular ribs 33 which are of the greatest width at their immediate centers and these portions are provided with open-

45 ings for the reception of the protruding ends of the pin 25 carried by the swivel block 22, thus pivotally connecting the book shelf to the swivel block. The swivel block, of course, is situated between the flanges or

50 ribs 33 and it will be observed that the shelf may be moved to any desired angle found most advantageous to the reader. The longitudinal edge of the plate 27 is bent at right angles to form a ledge 34 to prevent

55 the book from accidentally being displaced from the shelf and the opposite longitudinal edge is bent at right angles in the opposite direction forming a rear reinforcing edge 35 to which the flange 31 is secured. The

60 flange 32 is secured to the ledge 34 thus rigidly holding the reinforcing strip 30 to the bottom of the plate.

As shown in detail in Fig. 5 of the drawing, one end of the pin 25 is screw-threaded

65 to receive a nut 36 while the opposite end of

the pin has a head from which projects a hand lever 37 which may be held securely while the nut 36 is being manipulated to bind the flanges or ribs 33 against the block or to permit them to be looped. Thus the

70 book rack may be securely held in any desired angled position.

It will be noted that the device possesses such a variety of adjustments, that it will be an easy matter to apply it to any particular type of chair with which it is desired to be used. The lower clamp may be used as shown, or may be swung to a point directly opposite to what is shown so that it may be

75 attached to the leg of a chair depending from a different point from the seat. The tubular standard carrying the adjustable clamp permits of vertical adjustment of the shank to any desired height while the adjusting screw will accommodate a variety of

80 chair arms. In this connection it might be stated that this clamp which includes the adjusting screw 6 may be also attached to the edge of the seat of the chair if desired. The swivel block connection and the pin there-

90 for, as above described, permits swinging adjustment of the book plate and also angular adjustment thereof. While the device possesses these various adjustments, it is to be noted that it consists of a minimum number of parts and eliminates the usual bulk

95 found in devices similar to this thereby permitting it to be easily handled without danger of injuring the furniture to which it may be attached.

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Of the foregoing it will be observed that a very simple and durable book holder has been provided, the details of which embody the preferred form. I desire it to be understood, however, that minor changes may be

105 made in the details of construction without departing from the spirit of the invention or the scope of the claims hereunto appended.

I claim:

1. In a book holder, the combination of a

110 pair of clamps, a tubular standard having one of the clamps integrally formed therewith near one end thereof, the opposite end of the standard having a screw-threaded

115 arm, means for attaching the other of the said clamps to said screw-threaded arm, a rotatable adjustably mounted shank carried by the said tubular standard, and a rotatable angularly adjustable shelf mounted upon the said shank.

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2. In a book holder, the combination of a pair of clamps, a tubular standard having an interior bore, a shank received in the bore and projecting from the upper end of the standard, a book shelf including a plate, a

125 reinforcing strip fastened to the plate and having projecting ribs, a swivel block carried by the shank and forced between the ribs of the said reinforcing strip, and means connecting the swivel block with the ribs to

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permit them to be clamped to or released from the swivel block for permitting the shelf to be rigidly held in position after being adjusted.

5 3. In a book holder, the combination, of a tubular standard having a clamp at its upper end, the lower end of said standard being angled and threaded, a clamp structure adjustable longitudinally upon said
10 threaded end, an angled shank rotatably carried by the upper end of said standard, and a shelf rotatably and angularly adjustable upon said shank.

15 4. In a book holder, the combination, of a tubular member having its upper end enlarged, a clamp structure formed upon said enlarged end, an angled shank having its lower end rotatably and adjustably mounted in said upper enlarged end, a rotatable angularly adjustable shelf mounted upon said
20 shank, the lower end of said tubular member being angled, and a clamp structure adjustable longitudinally upon said lower angled end.

25 5. In a book holder, the combination, of a tubular standard having a clamp at its upper end, the lower end of said standard

being angled and threaded, a clamp structure adjustably mounted upon said threaded end, an angled shank rotatably carried by
30 the upper end of said standard, a book shelf including a plate, a reinforcing strip fastened to the plate and having projecting ribs, a swivel block carried by the shank and forced between the ribs of said reinforcing
35 strip, and means connecting the swivel block with the ribs to permit them to be clamped to or released from the swivel block.

6. In a book holder, the combination, of a tubular member, a shelf adjustably and rotatably carried by the upper end of the
40 tubular member, the lower end of said tubular member being angled and threaded, a clamp structure including a plate, a barrel formed longitudinally along one edge of
45 said plate and adjustable upon said threaded angled end, a second barrel formed upon said plate and extending at right angles to the first barrel, and a clamping member adjustably carried by said right angled barrel
50 for co-action with said plate to attach the lower end of said member to a support.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."