

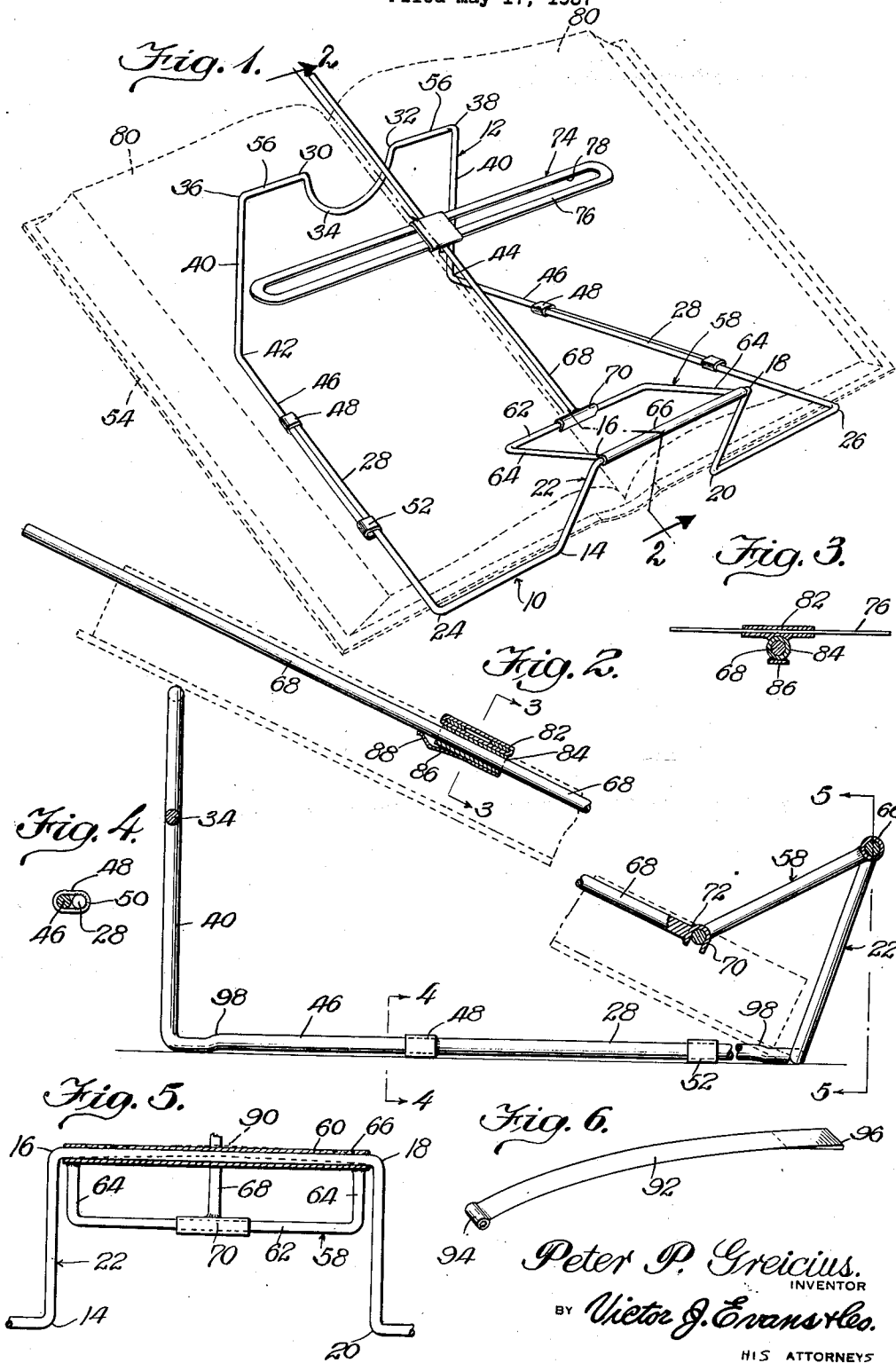
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BOOK SUPPORT AND LINE INDICATOR

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BOOK SUPPORT AND LINE INDICATOR

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2 Claims. (Cl. 120—33)

My invention relates to books and includes among its objects and advantages the provision of an improved book support and line indicator.

An object of my invention is to provide a book support so designed as to effectively support a book in an open position at an angle to the horizontal and in which a novel line indicator is associated with the support in such a manner as to be readily movable across the page or pages of the book.

A further object is to provide a book support including a line indicator in which the indicator is detachably connected with the support. The support also includes adjustment for books of different sizes.

In the accompanying drawing:

Fig. 1 is a perspective view of my invention illustrating a book supported thereby;

Fig. 2 is a sectional view along the line 2—2 of Fig. 1 with parts broken away for the sake of compactness;

Fig. 3 is a sectional view along the line 3—3 of Fig. 2;

Fig. 4 is a sectional view along the line 4—4 of Fig. 2;

Fig. 5 is a sectional view along the line 5—5 of Fig. 2; and

Fig. 6 is a perspective view of one form of line indicator.

In the embodiment selected to illustrate my invention I make use of two pieces of wire indicated generally at 10 and 12. Wire 10 is bent at 14, 16, 18, and 20 to provide an inverted U-shaped supporting element or abutment 22. Wire 10 is again bent at 24 and 26 to provide converging reaches 28.

Wire 12 is bent at 30 and 32 and shaped between the bends to provide a curved reach 34. The wire is bent at 36 and 38 to provide substantially parallel and vertically positioned reaches 40 which, in turn, are bent at 42 and 44 to provide diverging reaches 46 arranged in parallel relation with the converging reaches 28.

Reaches 28 and 46 are slidably connected. Each reach 28 carries a flattened sleeve 48 at its ends, which sleeve loosely embraces the adjacent reach 46. In Fig. 4, I illustrate the sleeve 48 as being welded at 50 to its reach 28. Similarly, a flattened sleeve 52 is welded to each end of each reach 46 and slidably embraces the adjacent reach 28. Thus, the reaches 28 and 46 are adjustably connected, which permits the support to be adjusted to vary the distance between the vertical reaches 40 and the supporting element 22. While one reach 28 and its associated

reach 46 is not arranged in true parallel relation with the other reaches 28 and 46, the flexible nature of the wire permits adjustment within necessary limits depending upon the requirements of the book. For general purposes, one adjustment is sufficient since the book may project a considerable distance beyond the vertical reaches 40.

In operation, the book is placed on the support with the back of the book aligned with the curved reach 34 with one end of the book abutting the U-shaped element 22. With the book opened, the back will lie within the curved reach 34 with the covers 54 lying on the reaches 56 between the bends 30 and 36 and 32 and 38. Reaches 40, 34, and 56 define a supporting element which supports the book at an angle to the horizontal. The lower end of the book has abutting relation with the supporting element 22, which element lies in a plane at a slight angle to the vertical, as illustrated in Fig. 2. Reaches 56 and reach 34 have a total length less than the width of the average book when opened. Thus, the book will extend beyond the points of bend 36 and 38 which loads the outer margins of the book in such a manner as to hold the book in an open position while the curved reach 34 is of sufficient depth to accommodate the back of all types of books.

Frequently, it is desirable to utilize a line indicator. To this end I pivotally connect a rectangularly shaped loop or link 58 with the bight 66 of the supporting element 22. Loop 58 comprises a piece of wire bent to provide a reach 62 and two reaches 64 fixedly connected with a tube 66 pivotally mounted on the reach 60. A rod 68 is pivotally connected with the reach 62 by a U-shaped connecting element 70 shaped to embrace the reach 62 throughout slightly more than 180°, as illustrated in Fig. 2. However, the connecting element 70 embodies sufficient resilient properties to permit quick and easy connection or disconnection. The connecting element 70 may be welded to one end of the rod 68, as indicated at 72 in Fig. 2.

Upon the rod 68 I slidably mount the line indicator 74. In Fig. 1, I illustrate the line indicator 74 as comprising a sheet metal strap 76 provided with a slot 78 of sufficient width to expose one line of reading matter on either of the book pages 80. Strap 76 is slidably supported within a flattened loop 82 having a sleeve 84 slidably mounted on the rod 68. I fixedly connect a spring element 86 with the sleeve 84 and shape its end 88 so as to have pressure relation with the rod 68 for frictionally holding the line

indicator 74 in different positions longitudinally of the rod 68. Strap 76 is slidable within the flattened loop 82 so that it may be shifted laterally of the rod 68 to accommodate a book page of different widths. The indicator is so constructed as to expose one line only at a time, but the indicator may be moved easily along the rod 68 to any desired position.

In the event that the line indicator is not desired, it is removed by merely disconnecting the element 70 from the reach 62. At this time the loop 58 may be pivoted about the bight 60 to position the loop in a plane common to the supporting element 22. The loop is so shaped as to be housed within the supporting element so as to be in a position in the clear of the pages 80. With the loop 58 so positioned within the supporting element 22, the pages may be turned without interference, and at the same time the loop is so positioned as to lie within the contour of the book support.

Tube 66 is so related to the bight 60 as to have frictional relation therewith for positively supporting the loop in any of its different positions. In Fig. 5, I illustrate the manner in which frictional relation between the two parts is established. Originally, the bight 60 is bowed slightly, as indicated in dotted lines 90. The tube is then placed in position, which causes the bight to substantially straighten, as indicated in full lines. Thus, the bight is flexed within the tube. The tensional forces incident to the straightened bight are of such a degree as to establish sufficient frictional relation between the bight and the tube for positively holding the loop 58 in different positions.

Fig. 6 illustrates a different form of line indicator. In this form I employ a relatively thin metal strip 92 of a highly flexible nature. One end of the strip is provided with a loop 94 for slidably receiving the rod 68. The opposite end of the strip 92 may be loaded, as indicated at 96. In operation, the rod 68 will lie snugly in the groove defining the separation between the pages 80, but the strip 92 will bend across the page

throughout its entire length. Weight 96 insures proper bending of the strip, in addition weighting it to such a degree as to hold it firmly on the page.

Loop 58 is so shaped as to extend partly over the pages 80 and may be utilized for holding the pages in an open position.

Fig. 2 illustrates the reaches 28 and 46 as being offset at 98 so as to bring the sleeves 48 and 52 out of contacting relation with the table or other support for the device. Thus, the support would balance regardless of the position of the sleeves.

Without further elaboration, the foregoing will so fully explain my invention that others may, by applying current knowledge, readily adapt the same for use under various conditions of service.

I claim:

1. In a book support having means for holding a book in an inclined position in a position of rest on the support, said support having an abutment for engaging the lower end of the book on the support, said abutment being in the nature of an inverted U with its bight positioned above the upper face of the book on the support, a line indicator supporting rod arranged to extend longitudinally and centrally of the open book on the support, and a link pivotally connected with the bight of the abutment and with one end of the line indicator supporting rod.

2. In a book support having means for holding a book in an inclined position in a position of rest on the support, said support having an abutment for engaging the lower end of the book on the support, said abutment comprising a horizontal pivot having legs at its ends connected with the support for supporting the pivot, a line indicator supporting rod, a link pivotally connected with the pivot and with one end of the line indicator supporting rod, said link being movable about the pivot for moving the pivoted end of the line indicator supporting rod toward and away from the book on the support, and being movable to a position between said legs.

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