April 13, 1937. F. D. FARR 2,076,941

BOOK END AND LIKE SUPPORT

Original Filed Jan. 14, 1935

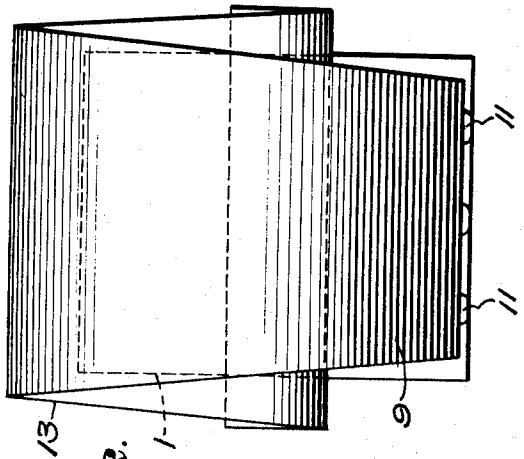

Fig. 2.

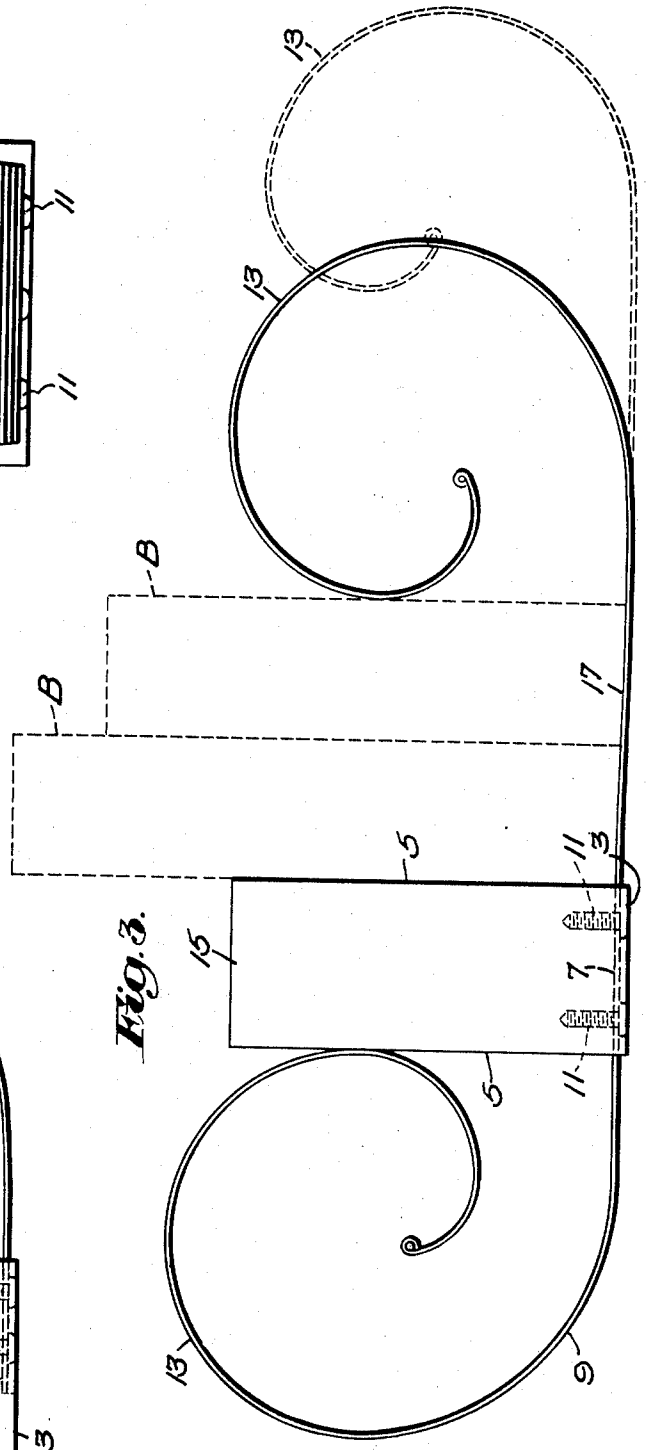

Fig. 3.

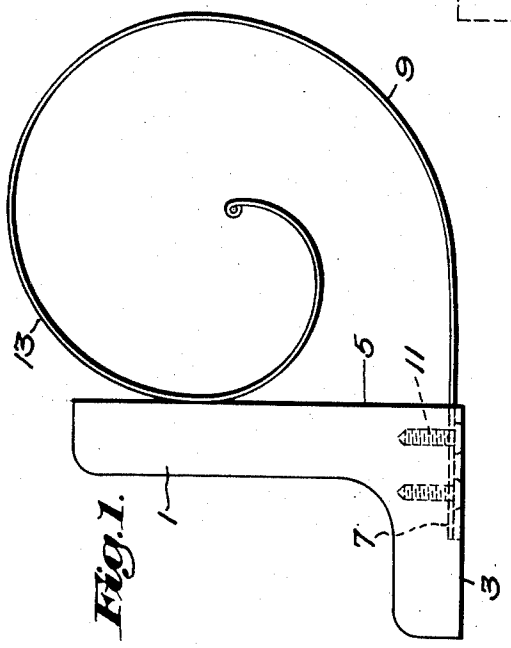

Fig. 1.

Inventor:
Fred D. Farr,
by Emery Booth Terney & Townsend
Attys.

Patented Apr. 13, 1937 2,076,941

UNITED STATES PATENT OFFICE

2,076,941

BOOK END AND LIKE SUPPORTS

Fred D. Farr, Mamaroneck, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland

Application January 14, 1935, Serial No. 1,677
Renewed March 21, 1936

8 Claims. (Cl. 211—43)

My invention, which relates to book ends and like supports, will be best understood from the following description when read in the light of the accompanying drawing of several embodiments of the invention, while the scope of the invention will be more particularly pointed out in the appended claims.

In the drawing:—

Fig. 1 is an elevation of one form of book end according to the invention;

Fig. 2 is an end view according to Fig. 1; and

Fig. 3 is a modified form of the invention, the spring scroll at the left hand side of the figure being in contracted position, while at the right hand side of the figure it is in extended position to receive one or more books.

Referring particularly to Figs. 1 and 2 of the drawing, the book end comprises a base member 1 which in this particular form of the invention is angle-shaped so as to present a surface 3 adapted to rest upon the upper surface of a table or other flat supporting surface and to present a vertically disposed surface 5 which forms an abutment surface against which the flat side of a book or the like is adapted to rest.

As illustrated, the base member is formed at its under side with a groove 7 which receives the end portion of a relatively wide strip 9 of spring material, preferably metal, the strip being rigidly secured to the base member in any convenient way as, for example, by a plurality of screws 11. As illustrated, the free end portion of the strip 9 is coiled to form a scroll 13 a curved side of which is opposed to the abutment surface 5 and resiliently bears against it.

The modification shown by Fig. 3 is similar to that disclosed by Figs. 1 and 2, except that the base member is in the form of a block 15, opposite sides of which present abutment surfaces 5 for the flat side of a book or the like, while the groove 7 extends entirely across the under supporting surface 3 of the block and receives an intermediate portion of a spring member 17 the opposite free end portions of which are coiled to form scrolls 13 so that books may be supported at opposite sides of the block or base member 15. If desired, the block 15 may be omitted, in which case the scrolls will normally contact with each other, and, when in use, each scroll will serve as an abutment member for the other.

The spring members 9 and 17, which are relatively thin, are of such resiliency and the scrolls are so shaped that the latter may be unwound by moving them away from the base member so as to permit books B to be inserted as illustrated in dotted lines at the right hand side of Fig. 3. The scrolls when unwound tend resiliently to coil into contact with the associated abutment surface 5 and thus act resiliently to engage with the flat side of the book, or row of books, the opposite side of which is in contact with said abutment surface. The inserted books at their lower ends rest upon the uncoiled surface of the spring, which latter flexes so as to rest upon the surface of the table or other support for the book end.

As illustrated, the spring 9 and the opposite free portions of the spring 17 are longitudinally tapered in respect to their width, the narrow portions of the springs being adjacent the bases 1 and 5. It has been found that this construction facilitates or causes unwinding of the scroll at the lowermost portion thereof when the scroll is moved from its full line position at the right hand side of Fig. 3 to its dotted line position.

It will be understood that wide deviations may be made from the forms of the book end illustrated without departing from the spirit of the invention.

I claim:

1. A support of the character described having, in combination, a member providing an abutment for the articles to be supported, a relatively wide, longitudinally tapered, flat strip of spring material having a portion of less width operatively secured to said member and having a free portion of greater width coiled to present a scroll a curved side of which is opposed to said member, said scroll being capable of being unwound by movement thereof away from said member and resiliently tending to assume its coiled shape.

2. A support of the character described having, in combination, a member providing an abutment for the articles to be supported, a relatively wide, longitudinally tapered, flat strip of spring material having a portion of less width operatively secured to said member and having a free portion of greater width coiled to present a scroll, said scroll being capable of being unwound by movement thereof away from said member and resiliently tending to coil into contact with said member.

3. A support of the character described having, in combination, a member adapted to rest upon a flat supporting surface and formed to present a suitable abutment surface for the flat side of a vertically positioned book or the like, a relatively wide, longitudinally tapered, flat spring member having a portion of less width operatively secured to the first mentioned member adjacent that portion of the latter which is adapted to rest

upon said supporting surface and having a free portion of progressively increasing width also adapted to rest upon said supporting surface and to contact with the edge of the book, said free portion of said spring member being coiled to present a scroll a curved side of which is opposed to said abutment surface, said scroll being capable of being unwound by movement thereof away from the first mentioned member and resiliently tending to assume its coiled shape.

4. A support of the character described having, in combination, a part presenting a base adapted to rest on a horizontal supporting surface and also an abutment above such surface, a relatively wide, longitudinally tapered, flat strip of spring material having a portion of less width operatively secured to said part and having a free portion of greater width coiled to present a scroll a curved side of which is opposed to said abutment, said scroll being capable of being unwound by movement thereof away from said abutment and resiliently tending to assume its coiled shape.

5. A support of the character described having, in combination, a part presenting a base adapted to rest on a horizontal supporting surface and also an abutment above such surface, elongated flat springs presenting relatively wide, longitudinally tapered portions at opposite sides of said abutment, the narrower portions of which springs are secured to said part and the free wider portions of which are coiled to present scrolls, the curved sides of said scrolls being opposed to said abutment, said scrolls being capable of being unwound by movement thereof away from said abutment and resiliently tending to assume their coiled shape.

6. A support for books or the like having means adapted to rest on a flat supporting surface, on which means the lower edges of a row of vertically positioned books are adapted to rest, and, at opposite sides of said means, scroll-like springs of flat resilient material having opposed curved sides adapted to engage with the opposite ends of the row of books, said springs being of progressively decreasing resiliency from said curved sides thereof toward their portions adjacent said supporting surface.

7. A support of the character described having, in combination, a member providing an abutment for the sides of articles to be supported, a flat, elongated strip of flexible spring material coiled to present a scroll operatively having an end secured to said member, said scroll adapted to be unwound by movement away from said abutment and having a flexible, freely bendable portion extending from the plane of said abutment, which portion by unwinding of said scroll provides an extensible support upon which the edges of articles are adapted to rest, and having a free end portion presenting a convex side opposed to said abutment for engaging the sides of articles opposite said abutment and resiliently holding them thereagainst.

8. A support of the character described having means presenting a base adapted to rest upon a supporting surface and also means presenting an abutment above said base, against which abutment the side of an article to be carried by said support is adapted to rest; said support including a spring member formed of a strip of relatively wide sheet metal having a flat side facing the plane of said abutment, which spring member has a resilient portion which is free from said base and extends upwardly from adjacent said base and from the plane of said abutment and is outwardly bowed relative to said plane so as to clear the side of the article opposite said abutment and upon which the bottom of an article is adapted to rest, said spring member presenting a surface above said base in spaced relation thereto carried by said outwardly bowed portion and cooperating with said abutment, which surface is adapted to contact with the side of an article and urge it toward said abutment for holding the article against said abutment.

FRED D. FARR.