

S. C. ENTWISTLE.
SHELF SUPPORT.
APPLICATION FILED AUG. 7, 1911.

1,062,901.

Patented May 27, 1913.

Fig. 1

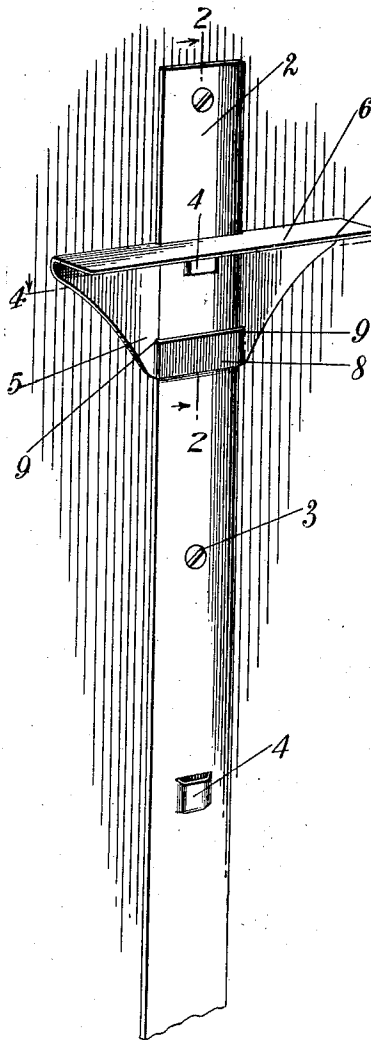


Fig. 2

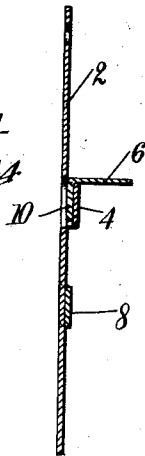


Fig. 3

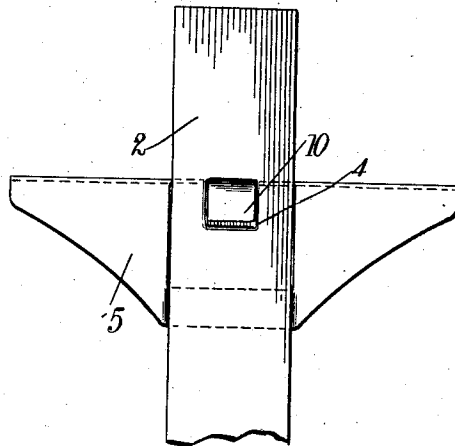


Fig. 4

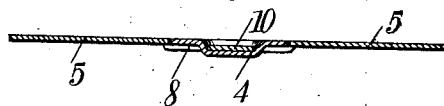


Fig. 5

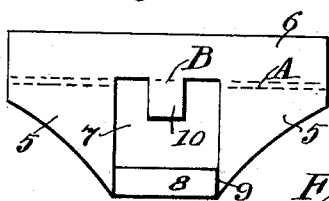
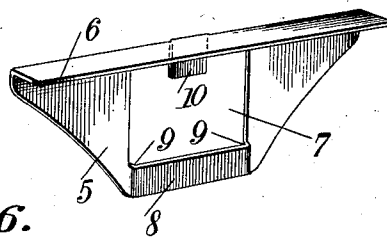


Fig. 6.

WITNESSES

F. C. Alexander.
L. J. Gallagher.

INVENTOR

Samuel C. Entwistle

BY *Mumfords*

ATTORNEYS

UNITED STATES PATENT OFFICE.

SAMUEL C. ENTWISTLE, OF JAMESTOWN, NEW YORK.

SHELF-SUPPORT.

1,062,901.

Specification of Letters Patent.

Patented May 27, 1913.

Application filed August 7, 1911. Serial No. 642,646.

To all whom it may concern:

Be it known that I, SAMUEL C. ENTWISTLE, a citizen of the United States, and a resident of Jamestown, in the county of Chautauqua and State of New York, have invented a new and Improved Shelf-Support, of which the following is a full, clear, and exact description.

This invention relates generally to shelf supports, and is more particularly directed to one especially adapted for use in cabinets, the structure and arrangement being such that an adjustable construction is provided which involves the use of two parts or elements.

The object of the invention is to provide a new and improved bracket made in a single piece, adapted for coöperation with a suitable strip, the bracket being adapted for use with strips of different thicknesses.

A further object of the invention is to provide a bracket made of a single piece of metal, the portions of which are so shaped that it may be suspended on a supporting strip and held against tilting on said strip.

Further objects and advantages of the invention will appear as the description thereof proceeds, the inventive idea being and included in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a perspective view of the support in operative position; Fig. 2 is a sectional view along line 2—2 of Fig. 1; Fig. 3 is a rear elevation; Fig. 4 is a sectional view on the line 4—4 of Fig. 1; Fig. 5 is a perspective view of the bracket. Fig. 6 is a plan view of the bracket before bending.

The support is made up of a bracket 1 and a strip 2, the strip being adapted to be secured to any suitable upright or any other supporting means in any suitable manner, the preferred form, however, being screws 3.

The strip 2 is provided throughout its length with a number of pockets 4 preferably formed integral therewith in any convenient manner, as by forcing a portion of the strip in advance thereof, the pockets being open at the top and the bottom whereby the accumulation of dust or dirt therein is prevented. Each strip may be of any suitable or desired length and may be provided with any number of pockets, such

being determined largely by the size of the cabinet or other outfit with which the invention is used.

The bracket 1 is preferably of integral construction and comprises the vertically and horizontally extending parts 5, 6, at right angles to each other; the intermediate portion of the vertically extending part 5 is removed, as at 7, whereby an opening is formed, this lower end of the part forming a cross piece 8 which is offset from the front of the part a suitable distance whereby shoulders 9 are formed the dimensions of which depend on the thickness of the strip 2 with which the bracket is used. In removing the intermediate portion 7 a tongue 10 is provided which extends into this removed portion and intermediate of the sides for a suitable distance, the parts 5 and 6 being then bent as shown in Fig. 5; the tongue 10 lies in the same plane as the cross piece 8 so that when the bracket is positioned on the strip the strip will be included within the said opening and will be secured between the side walls of the opening and the shoulders 9 adjacent the lower end of the vertically extending part 5, such relation thereby holding the bracket firmly positioned on the strip and against tilting.

Referring particularly to Figs. 2 and 3 it will be noted that the pocket 4 receives the tongue 10, the tongue being wholly included within the pocket and that the rear face of the part 5 lies flush with the rear face of the strip 2.

Referring particularly to Fig. 6, the blank from which the bracket is made is illustrated previous to bending, it being noted that two broken lines A, B, are indicated in this figure; these lines mark the bending of the part in order to arrive at the structure shown in Fig. 5. The lower broken line A is the line of bending of the part 6 with respect to the part 5 whereby the right-angle relation is obtained; the line B is the line in which the tongue 10 is bent in order to bring it in advance of the vertically extending part 5 so that the tongue may engage in one of the pockets 4. The depth of the shoulders 9 is such that the cross piece 8 lies closely adjacent the front of the strip 2 when the tongue 10 is inserted in the pocket 4, such formation of the blank from which the bracket is made enabling the same bracket to be adapted to strips of different thicknesses by merely varying the distance

between the lines of bending A and B whereby the tongue 10 will be in advance varying distances from the vertically extending part 5. It is also to be noted that by this bending the strip 2 may not only be positioned within the removed portion 7 of the vertically extending part 5, but also be included to a certain extent within the horizontally extending part 6, this relation following because of the distance between the lines of bending A and B.

A structure made in accordance with the preceding description furnishes an extremely simple and stable shelf support and one which may be easily adjusted to accommodate different outfits; in the event of the shelf being unevenly loaded the bracket will not move relatively to the strip because of the shoulders 9 and the side walls of the removed portion engaging the edges of the strip 2. The weight of the shelf and the bracket is carried by the engagement of the tongue 10 in the pocket 4 which construction affords a very simple, and, at the same time, rigid device.

The bracket itself is adapted for disposal independently of the strip, inasmuch as certain forms of cabinets, such as bookcases may be provided with two strips as a part thereof, it being clear that the number of brackets used therewith may be varied.

It is clear that the strip 2 may be made in various lengths and may be provided with different numbers of pockets, a single strip being thereby adapted for use with a large number of brackets; to this end the brackets may be made and sold separately as an article of manufacture and in order to protect a bracket I have set forth claims to the construction thereof as an article of manufacture.

Of course the material of which the parts of the support are made will depend on the use of the outfit to which the invention is put.

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

1. The combination of a strip having a vertically extending pocket therein on one side thereof, and a bracket adapted to support a shelf and comprising a horizontally extending portion and a vertically extending portion, the vertically extending portion being provided with an opening, the width of which is substantially equal to the width of the said strip, the said vertically extending portion lying adjacent opposite edge portions of the strip, the horizontally extending portion being provided with a tongue for engagement in the said pocket, the lower part of the said vertically extending portion forming a cross piece suitably offset from the rest of the said vertically extending portion, whereby the engagement between the side

walls of the said opening and the opposite edge portions of the strip will prevent the bracket from tilting.

2. The combination of a strip provided with a pocket, a bracket made up of a horizontally extending portion and a vertically extending portion, the said portions lying adjacent opposite edge portions of the strip, the intermediate part of the vertically extending portion being removed for a suitable distance, the width of the removed portion being substantially equal to the width of the strip, the intermediate part of the horizontally extending portion being also removed for a suitable distance, the width of such removed portion being also substantially equal to the width of the strip, a tongue carried by the horizontally extending portion and positioned intermediate the side walls of the said removed portion, and adapted for engagement in the said pocket, the side walls of the removed part of the vertically extending portion engaging opposite edge portions of the strip.

3. The combination of a strip having a vertically extending pocket therein in advance of one side thereof, with a bracket comprising a horizontally extending portion and a vertically extending portion, an opening formed in the vertically extending portion, the opening also extending into the horizontally extending portion, the strip lying within the said opening, a tongue carried by the horizontally extending portion engaging in the said pocket, the lower end of the vertically extending portion being offset a distance sufficient to bring it into the same vertical plane as the said tongue, whereby the engagement of the side walls of the said opening with the opposite edge portions of the strip will bring the said lower end of the vertically extending portion adjacent the front of the strip and will prevent the bracket from tilting.

4. The combination of a strip having a pocket therein, and a bracket made up of two parts extending at right angles to each other, the intermediate portions of the said parts being removed for suitable distances, the width of the removed portions being substantially equal to the width of the strip, a vertically extending tongue carried by one of the parts, and a cross piece carried by the other part, the cross piece and the tongue lying in substantially the same vertical plane so that when the tongue is engaged in the pocket, the said cross piece will lie adjacent the said strip, the side walls of the said removed portions engaging opposite edge portions of the strip, whereby the bracket is prevented from tilting.

5. As a new article of manufacture, a bracket made of a single piece of material and provided with an opening, a tongue extending at right angles from one edge por-

tion of the opening, that portion of the said piece of material opposite the tongue being offset, the said piece of material being bent on a line intermediate the edge portion provided with the tongue and the said offset portion, whereby two right-angularly extending parts of the said piece are formed, the line of bending being such that the said tongue lies in the same plane as the said offset portion.

6. The combination of a strip provided with a pocket and a bracket made up of a horizontally extending portion and a vertically extending portion, the intermediate part of the vertically extending portion being removed for a suitable distance, the width of the removed portion being substantially equal to the width of the strip, and a tongue carried by the horizontally extending portion and positioned between the side walls of the said removed portion, the said tongue engaging in the said pocket in the strip, the side walls of the removed portion of the vertically extending portion engaging opposite edge portions of the strip.

7. The combination of a strip having a vertically extending pocket therein, with a bracket comprising a horizontally extending portion and a vertically extending portion, the intermediate part of the vertically ex-

tending portion being removed for a suitable distance, the said opening extending into the horizontally extending portion, the width of the removed portion being substantially equal to the width of the strip, whereby it receives the strip, a tongue carried by the horizontally extending portion and positioned between the side walls of the said removed portion, the tongue engaging in the said pocket and the side walls of the removed portion engaging the opposite edge portions of the strip.

8. As a new article of manufacture, a bracket made of a single piece of material provided with an opening, a tongue extending from one edge portion of the opening, the tongue extending at a right angle to the part from which it projects, the piece of material forming the bracket being bent on a line adjacent to the edge portion provided with the tongue, whereby two right angularly extending parts are formed.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL C. ENTWISTLE.

Witnesses:

LAURENCE J. GALLAGHER,
PHILIP D. ROLLHAUS.

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