Jan. 6. 1925. 1,522,409

R. T. BERRY

BINDER

Filed Jan. 19, 1924

Fig. 1.

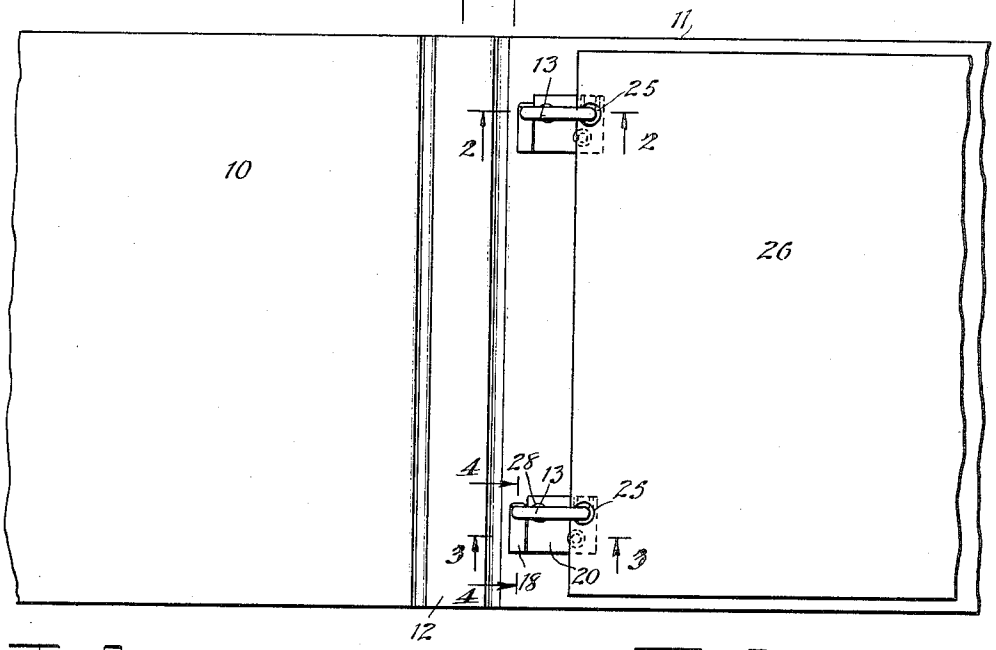


Fig. 2.

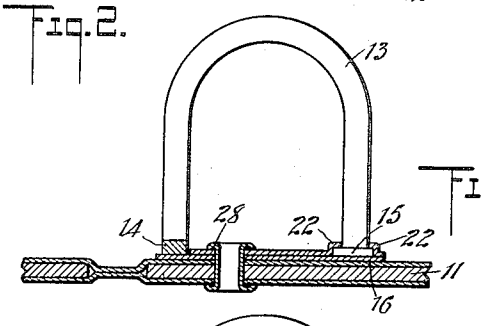


Fig. 5.

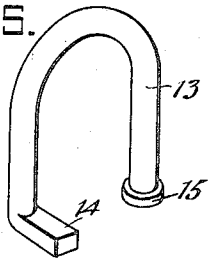


Fig. 4.

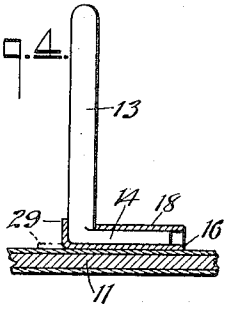


Fig. 3.

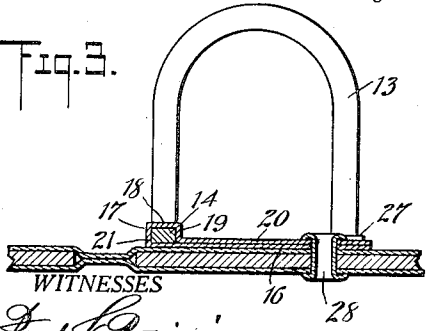


Fig. 6.

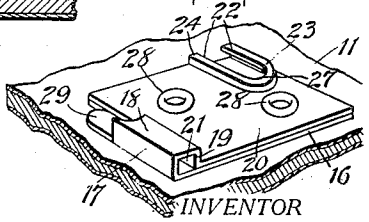
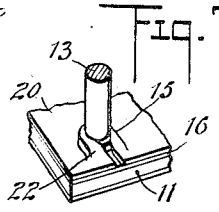


Fig. 7.



WITNESSES

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UNITED STATES PATENT OFFICE.

RAYMOND T. BERRY, OF BROOKLYN, NEW YORK, ASSIGNOR TO MILTON C. JOHNSON CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

BINDER.

Application filed January 19, 1924. Serial No. 687,301.

To all whom it may concern:

Be it known that I, RAYMOND T. BERRY, a citizen of the United States, residing in the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Binders, of which the following is a specification.

My invention has for its object to provide a binder of simple and cheap construction which will prevent the leaves from slipping out of the binder while permitting the convenient turning of the leaves in the binder.

Another object of the invention is to provide a leaf holder having two terminals, one straight to be inserted in the openings in the leaves and the other bent to form a foot for anchorage purposes, there being a companion member having a guide-way to receive the foot and another guide-way to receive an enlargement or guide on the straight terminal.

Still another object of the invention is to provide flanges on the companion member which may be turned up against portions of the leaf holder to hold the latter in position relatively to the companion member.

Additional objects of the invention will appear in the following specification in which the preferred form of my invention is described.

In the drawings similar reference characters refer to similar parts in all the views in which,—

Fig. 1 is a fragmentary view showing a binder constructed in accordance with my invention;

Fig. 2 is an enlarged sectional view on the line 2—2 of Fig. 1;

Fig. 3 is an enlarged sectional view on the line 3—3 of Fig. 1;

Fig. 4 is an enlarged sectional view on the line 4—4 of Fig. 1;

Fig. 5 is a perspective view of the leaf holder;

Fig. 6 is a fragmentary, perspective view showing the companion member as it is secured to the binder; and

Fig. 7 is a fragmentary, sectional view showing how the guide on the inverted U shaped member is secured to the companion member.

By referring to the drawings it will be seen that the binder is constructed in the usual manner with covers 10 and 11 which are held together by the back portion 12. The leaf holders are preferably two in number for each binder and may be arranged as illustrated in Fig. 1 of the drawings. Each of the leaf holders is constructed of an inverted U shaped member 13 having two terminals, one bent to form a foot 14, the other terminal being straight and having an enlargement forming a guide 15.

As will be seen by referring to the drawings, the foot 14 is disposed at a right angle to the inverted U shaped member 13 at its portion adjacent the foot 14. The inverted U shaped member 13 with its foot 14 and its guide 15 is used in connection with a companion member. This companion member is preferably constructed of a single piece of material and has a base 16 from which extends upwardly, a portion 17 preferably disposed at right angles to the base 16, the member then being bent to form a portion 18 substantially parallel with the base 16, the member being again bent at 19 down to the base 16, the member then extending as shown at 20 along the surface of the base 16. This forms a guide-way 21 in which the foot 14 is normally disposed. The member 20 is cut away as shown in Fig. 6 of the drawings at a distance from the guide-way 21, the sides 22 of this cut-away portion being bent upwardly and inwardly to form a second guide-way 23 which is disposed substantially parallel with the guide-way 21. The guide-way 23 is open at its end 24.

In using the binder, the inverted U shaped member 13 at its guide 15 is disposed in the openings 25 in the leaves 26 after which the inverted U shaped member 13 is disposed with its foot 14 to move in the guide-way 21 and with its guide 15 disposed to move in the guide-way 23 so that when the foot 14 is moved home in the guide-way 21 and the guide 15 is seated in the seat 27 at the end of the guide-way 23, the inverted U shaped member 13 will be held in position. The rivets 28 extend through the base 16 and the member at 20 and these rivets extend through the cover 11 to hold securely the base with its continuing portion forming a companion member for the U shaped member 13.

To hold the U shaped member 13 to the

said companion member. I construct the base 16 with a tongue 29 which may be bent up against the U shaped member 13 at its foot 14 to hold the foot 14 in the guide-way 21. This is shown clearly in Fig. 4 of the drawings. The side 22 of the guide-way 23 may be pressed downwardly at the rear of the U shaped member 13 adjacent the guide 15. This serves to hold the guide 15 seated at 27 in the guide-way 23. This is shown in Fig. 7 of the drawings.

Having thus described my invention what I claim as new and desire to protect by Letters Patent is:

1. In a binder a leaf holder having an inverted U shaped portion with two terminals, one of the terminals being bent to form a foot, the companion member having a guide-way in which the foot may be introduced longitudinally and means on the companion member for engaging the leaf holder at its foot for holding the leaf holder relatively to the companion member.

2. In a binder a leaf holder having an inverted U shaped portion with two terminals, one of the terminals being bent to form a foot and the other terminal having a guide, and a companion member having two substantially parallel guide-ways, one for the foot and the other for the guide.

3. In a binder a leaf holder member having an inverted U shaped portion with two terminals, one of the terminals being bent to form a foot, the other terminal having a guide, a companion member having two substantially parallel guide-ways, one for the foot and the other for the guide and means on one of the members for engaging the other member to lock the members together.

4. In a binder a leaf holder having an inverted U shaped portion with two terminals, one of the terminals being bent to form a foot and the other terminal having a guide, a companion member having two substantially parallel guide-ways, one for the foot and the other for the guide, and means on the companion member for engaging the leaf holder at its foot for holding the leaf holder relatively to the companion member.

5. In a binder a leaf holder having an inverted U shaped portion with two terminals, one of the terminals being bent to form a foot and the other terminal having a guide, a companion member having two guide-ways, one in which the foot may move longitudinally and the other for the guide and a flange on the companion member for engaging the leaf holder to hold the foot and guide in position in the guide-ways.

6. In a binder a leaf holder having an inverted U shaped portion with two terminals, one of the terminals being bent to form a foot and the other terminal having a guide and a companion member having a guide-way closed at its top and open at one end in which the foot may be inserted longitudinally and another guide-way open at the top for receiving the guide.

7. In a binder a leaf holder member having an inverted U shaped portion with two terminals, one of the terminals being bent to form a foot and the other terminal having a guide, a companion member having a guide-way closed at the top and open at one end for the insertion of the foot longitudinally and another guide-way open at the top for receiving the guide, and means on one of the members for engaging the other member to lock the members together.

8. In a binder a member having a base, the member extending upwardly then substantially parallel with the base and then down to the base to form a guide-way, the member extending along the base and having an opening extending substantially parallel with the guide-way with its sides bent upwardly and inwardly to form a second guide-way and a leaf holder having an inverted U shaped portion with a terminal bent to form a foot which may be introduced longitudinally in the first mentioned guide-way and a guide on its terminal which may be introduced in the second guide-way.

9. In a binder a member having a base, the member extending upwardly then substantially parallel with the base and then down to the base to form a guide-way, the member extending along the base and having an opening extending substantially parallel with the guide-way with its sides bent upwardly and inwardly to form a second guide-way and a leaf holder having an inverted U shaped portion with a terminal bent to form a foot which is disposed in the first guide-way, a guide on the other terminal of the U shaped member disposed in the second guide-way and means on the member engaging the inverted U shaped member at its foot to hold the member in the first mentioned guide-way.

10. In a binder a member having a base, the member extending upwardly, then substantially parallel with the base and then down to the base to form a guide-way, the member extending along the base and having an opening extending substantially parallel with the guide-way, with its sides bent upwardly and inwardly to form a second guide-way, a leaf holder having an inverted U shaped portion with a terminal bent to form a foot which is disposed in the guide-way and a guide on the other terminal of the U shaped member disposed in the second guide-way, the sides of the opening forming the second guide-way, being bent down to hold the guide on the inverted U shaped member in position relatively to the base.

RAYMOND T. BERRY.