J. S. McCOMB.

EXTENSIBLE POST FOR LOOSE LEAF BINDERS.

APPLICATION FILED JUNE 8, 1908.

940,705. **Patented Nov. 23, 1909.**

Fig. 3.

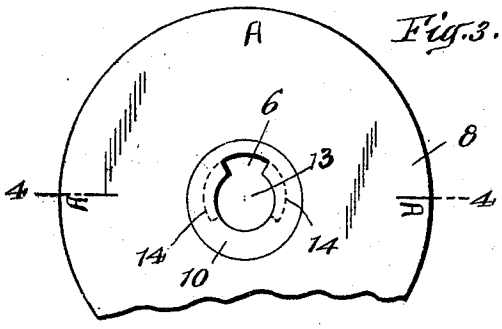


Fig. 1.

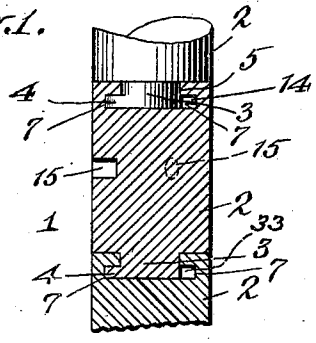


Fig. 6.

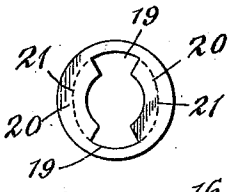


Fig. 5.

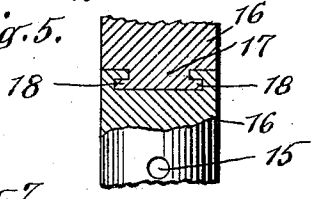


Fig. 4.

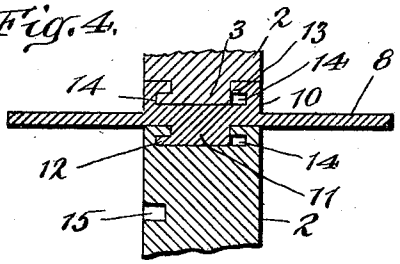


Fig. 7.

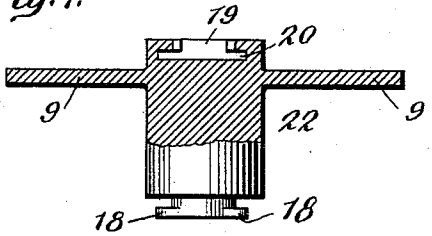


Fig. 2

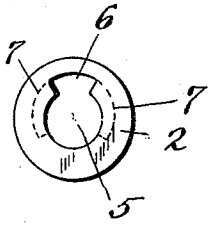
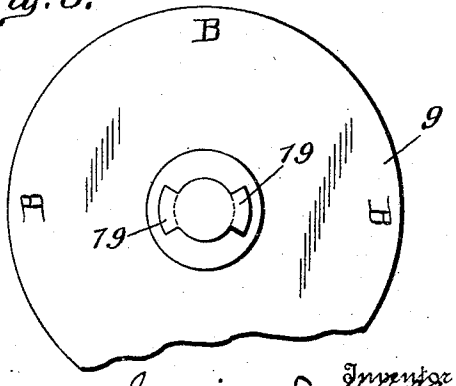


Fig. 8.



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EXTENSIBLE POST FOR LOOSE-LEAF BINDERS.

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Application filed June 8, 1908. Serial No. 437,423.

To all whom it may concern:

Be it known that I, JENNINGS SCOTT McCOMB, a citizen of the United States, and a resident of Dobbs Ferry, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Extensible Posts for Loose-Leaf Binders, of which the following is a specification, taken in connection with the accompanying drawing, which forms a part of the same.

This invention relates to loose leaf binders and more particularly, to the extensible posts or pillars of such binders and also to the different sections of the post and the means for readily attaching or detaching them to increase or decrease the length of the post and to the means for readily attaching and detaching supports or disks which may, if desired, be used as a rear index.

In the accompanying drawing showing illustrative embodiments of this invention, and in which the same reference numerals refer to similar parts in the several figures, Figure 1 is a vertical section of two sections of the extensible post and a fragment of a third section in side elevation. Fig. 2 is a plan view of one of the sections. Fig. 3 is a plan view of one of the supports or disks. Fig. 4 is a vertical section on line 4—4 of Fig. 3. Fig. 5 is a vertical section through two sections of a post or support, showing a modification. Fig. 6 is a plan view of one of the sections shown in Fig. 5. Fig. 7 is a side elevation of a modified form of section, a portion of the figure being shown in vertical section. Fig. 8 is a plan view of the section shown in Fig. 7.

In the illustrative embodiments of my invention shown in the drawing 1 is an extensible post or pillar for loose leaf binders formed of sections 2, 2. Each section is provided with a male locking member 3, which consists of a reduced portion of the section 2, and a laterally extending wing 4 mounted on or carried by the member 3. The upper portion of each section 2 is provided with a female locking member consisting of an axial opening 5, to substantially fit the locking member 3 and provided with a radial opening 6 to snugly fit the wing 4 of another complementary locking member carried by another section 2. The diameter of the axial opening 5 is enlarged and formed eccentric with relation to the axis of the different sections 2 and the locking members 3, the arrangement being such, that after the locking member 3 with its wing 4 has been inserted in a complementary axial opening 5, a partial rotation of a section 2, in either direction will cause the wing 4 to bind upon one of the eccentric walls 7, 7 of the eccentric recess 33, thereby securely holding the parts together with a minimum amount of labor and trouble in assembling them.

In some cases it may be desirable to support the sheets of the loose leaf binder at intervals throughout the length of the post 1 to facilitate the insertion or removal of matter in or from the binder. This may be readily done by using supports or disks 8, which may be formed separately as shown in Fig. 4, or similar disks 9 may be permanently or otherwise attached to one of the sections as shown in Fig. 7. In the preferred construction I preferably make this in the form of a disk as shown in Figs. 3 and 4 and provide the disk with a body portion 10 having a male locking member 11 and a wing 12 similar to the locking member 3 and the wing 4 of one of the sections 2, Fig. 1. The body portion 10 is also provided with a female locking member 13 for the reception of a locking member 3 and it is provided also with an eccentric groove 14, which is shown exaggerated in Fig. 3. In this form, the disks or supports 8 may be inserted at any desired location in the pillar or post 1 or may be entirely omitted if desired. These disks or supports in addition to supporting the different sheets or papers located above them in the loose leaf binder, may also be used to permit a person to readily determine where the pillar or post is to be disconnected to insert or remove a sheet. This may be done by placing index letters or numerals upon the face of the disk as for instance AA in Fig. 3 or BB in Fig. 8. These disks can also be used to assist in disconnecting the pillar or post by holding for instance one of the disks 8 while partially rotating a section 2, which for example, may be immediately beneath it, by means of a suitable tool, not shown, adapted to take into an opening 15 in one of the sections 2. Or the pillar or post 1 may be disconnected by a tool or pin, not shown, engaging with the opening 15 holding one of the sections 2 while a disk 8 may be given a partial rotation sufficient to permit its wing 12 to be withdrawn through the radial opening 6.

It will readily be seen that by my invention the different sections of the post can be attached and detached without a moment's delay and with a minimum amount of labor and this is also true of the supporting disks 8.

In some cases I may use a locking member provided with two wings. In Fig. 5 I have shown a modification, the different sections 16, 16 being provided with coöperating male and female locking members. Upon one section 16, I provide a male locking member 17 having two oppositely disposed locking wings 18, 18 arranged substantially 180° apart. The female member carried by the coöperating section 16 is provided with two radial openings 19, 19 to receive the wings 18, 18, the lower portions of these openings 19, 19 merging into eccentric grooves 20, 20 so formed that when the wings 18, 18 are inserted and given a partial rotation in the direction of the arrows in Fig. 6, the wings 18, 18 will bind upon the eccentric wall 21, 21 of the eccentric grooves 20, 20, Fig. 6.

I may if desired, use with this form of my invention, supports or disks for supporting the paper in the loose leaf binder. These supports may be secured or held upon the different sections of the post 1 in any suitable manner. In Fig. 7 I have shown the disk 9 formed integral with the section 2, 2 which is provided with the same male and female locking members as in Figs. 5 and 6. In this form of my invention the pillar or post of the loose leaf binder may be readily disconnected at any point by merely giving one of the sections a partial rotation with relation to its complementary section, permitting the wings 18, 18 to be withdrawn from the openings 19, 19.

Having thus described this invention in connection with several illustrative embodiments thereof, to the details of which I do not desire to be limited, what is claimed as new and what it is desired to secure by Letters Patent is set forth in the appended claims.

1. A loose leaf binder pillar or post formed into a plurality of sections, each section having a male locking member and laterally extending means carried by the male locking member to coöperate with a female member carried by each section having eccentric means to coöperate with the male locking member of a complementary section, to bind the parts together upon a partial rotation of the complementary sections.

2. A loose leaf binder pillar or post comprising a substantially cylindrical body portion, a male locking member carried at one end of the section and provided with a laterally extending wing, a female locking member carried by the other end of the section provided with an eccentric recess to coöperate with a complementary male locking member to rigidly lock the sections together upon a partial rotation of the members.

3. A loose leaf binder pillar or post formed of a plurality of sections, a portion of each section being provided with an eccentric recess, and a laterally extending wing on another portion of each section.

4. A support to coöperate with an extensible pillar or post of a loose leaf binder said support being provided with a body portion provided at one end with an eccentric recess and with a laterally extending wing at the other end.

5. The combination of a plurality of units adapted to form an extensible pillar or post for a loose leaf binder, each unit provided at one end with an eccentric recess and at the other end with a laterally extending wing, a support having a body portion provided at one end with an eccentric recess to coöperate with a laterally extending wing on a unit of the pillar or post, and at the other end with a laterally extending wing to coöperate with an eccentric recess in another unit of the extensible pillar or post.

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