J. C. DAWSON.

FILE BINDER.

APPLICATION FILED AUG. 11, 1909.

966,808. Patented Aug. 9, 1910.

Fig. 1.

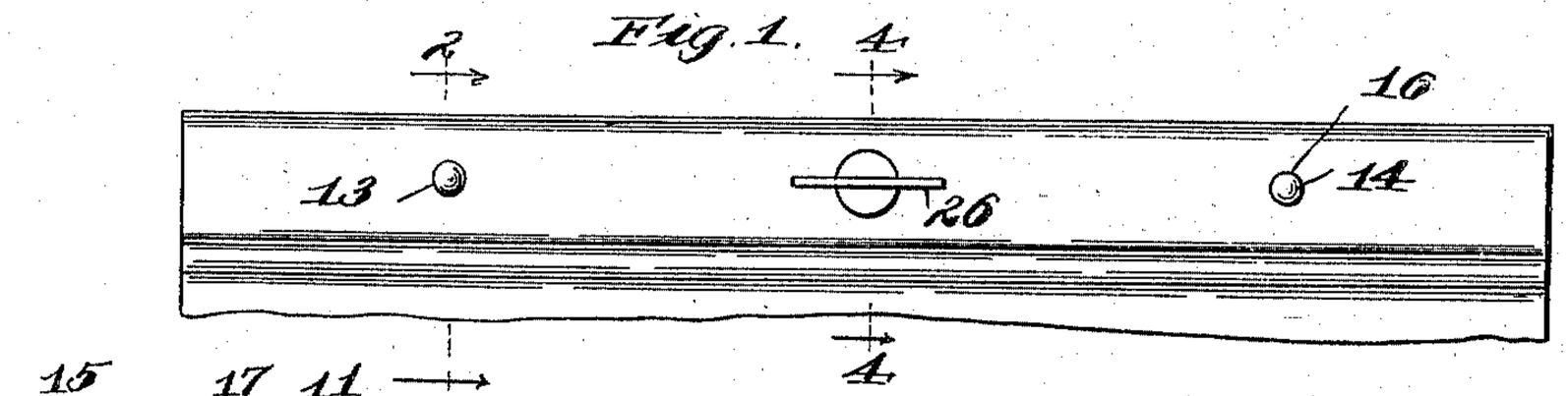

Fig. 2.

Fig. 3.

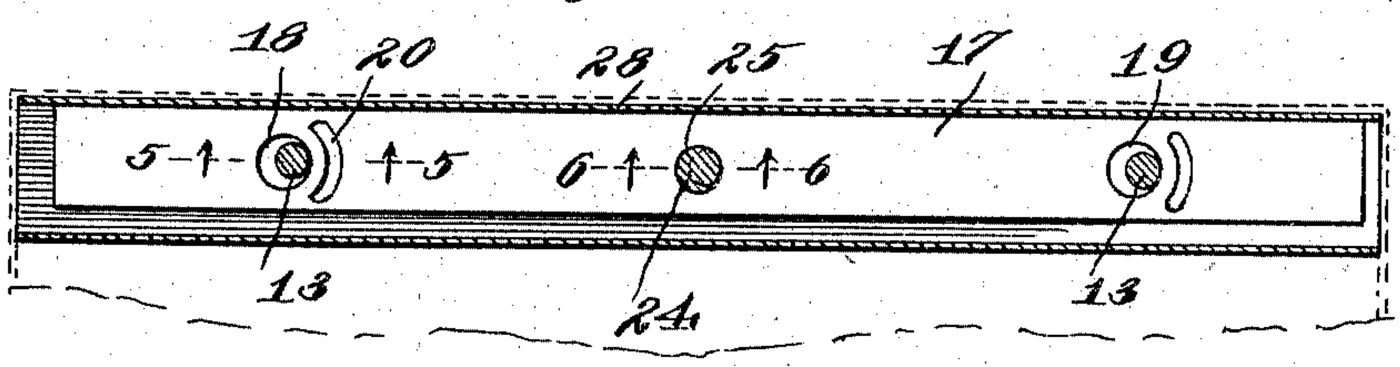

Fig. 4.

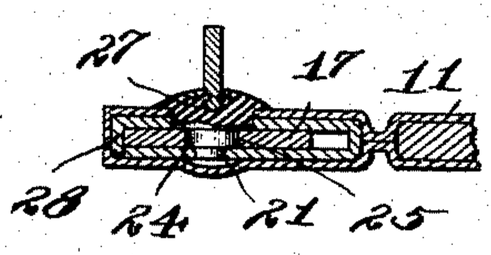

Fig. 5.

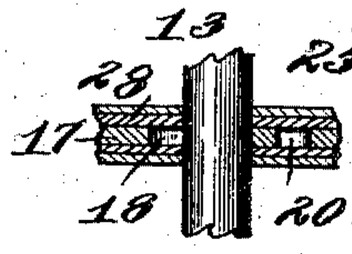

Fig. 6

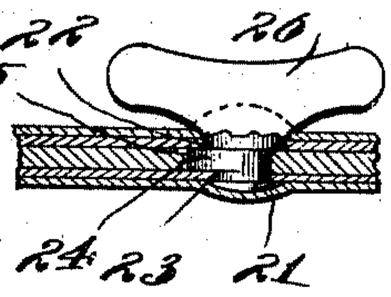

Fig. 7.

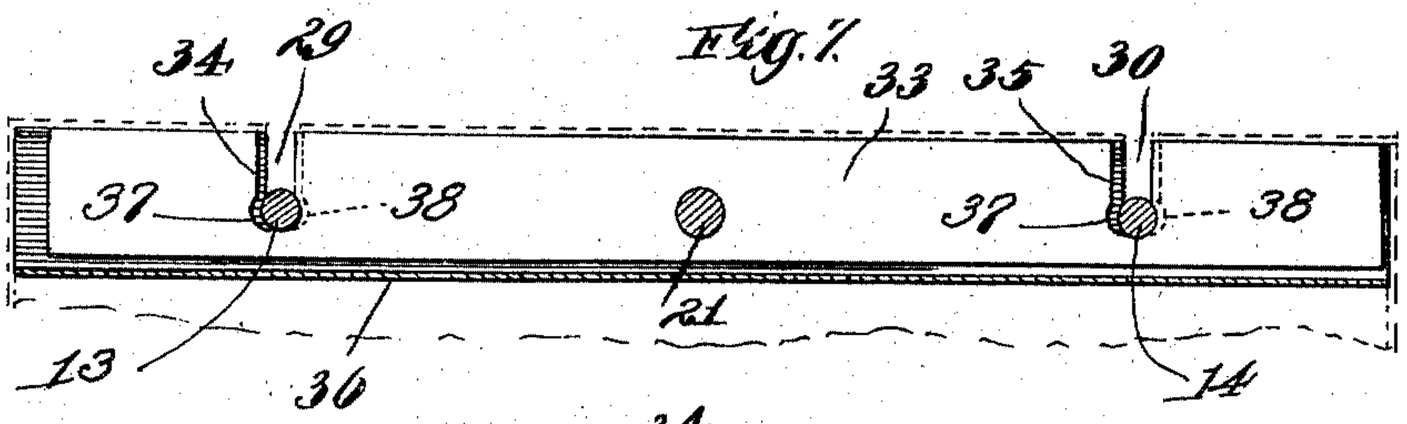

Fig. 8.

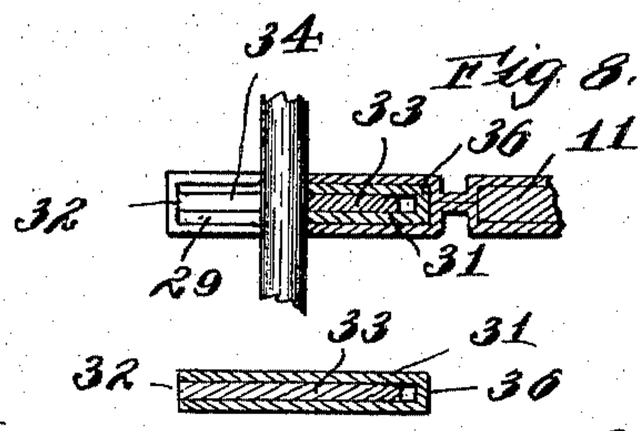

Fig. 9.

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FILE-BINDER.

966,808. Specification of Letters Patent. Patented Aug. 9, 1910.

Application filed August 11, 1909. Serial No. 512,386.

To all whom it may concern:

Be it known that I, JAMES C. DAWSON, a citizen of the United States, and resident of Webster Groves, county of St. Louis, and State of Missouri, have invented certain new and useful Improvements in File-Binders, of which the following is a specification, and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to loose leaf binders of that type wherein sheet-receiving posts are carried by one of the members of a pair of book covers, and the other cover member takes the form of a follower for running on the posts above the leaves to be bound and carries clamping means for securing it in any adjusted position on the posts.

The object of the invention is to provide an improved file binder of simple and efficient but inexpensive construction.

A detail of the invention provides clamping means for securing the follower member of a file binder to the sheet-receiving posts which is of such compact form that it will not interfere with the packing of filled binders for storage.

In the accompanying drawings, Figure 1 is a detail plan view of a file binder embodying the features of the invention; Fig. 2 is a sectional view of the same taken on the line 2—2 of Fig. 1; Fig. 3 is a plan sectional view taken on the line 3—3 of Fig. 2; Fig. 4 is a detail sectional view taken on the line 4—4 of Fig. 1; Figs. 5 and 6 are detail sections viewed from the lines 5—5 and 6—6, respectively, of Fig. 3; Fig. 7 is similar to Fig. 3 but shows a modified form of construction; and Figs. 8 and 9 are detail sectional views of the form of construction illustrated in Fig. 7.

Details of the cover members of a file binder are shown in the drawings at 10 and 11. One of these cover members, as 10, comprises a metal strip 12, which forms a core for the binding edge of the cover and is flexibly connected to the body of the cover. Sheet-receiving posts, as 13, 14, rise from the cover member 10 and, as shown, are firmly secured at their bases in the metal strip 12. As shown a portion of the cover member 11 adjacent its binding edge also has a metal core 15. This core is preferably of no greater thickness than is the body of the cover member 11, and to that end, as shown in Figs. 1 to 6 inclusive, it comprises a plate of sheet metal longitudinally folded to the form of a flattened tube or casing, the upper and lower walls of the casing being provided with registering apertures 16 for slidingly receiving the sheet-receiving posts 13, 14.

Locking means are provided for securing the cover member 11 to the posts 13, 14, in any adjusted position thereon, and compactness of construction is attained by housing such means within the folded sheet metal core 15, a flat metal locking strip 17 being preferably employed for simultaneously engaging both of the posts. As shown the locking strip 17 is apertured, as indicated at 18, 19, to receive the filing posts 13, 14, the strip being movable within the casing 15 whereby the apertures 18, 19, may be brought into register with the apertures 16 when it is desired that the cover member 11 shall slide freely on the posts 13, 14, or may be moved to positions somewhat out of register with the apertures 16 in order that the walls of the apertures 18, 19, will bind upon the posts 13, 14. In order that the walls of the apertures 18, 19, may be caused to bind upon the posts 13, 14, respectively, without requiring unusual accuracy to be attained in the spacing of the apertures and the posts, the walls of the apertures 18, 19, may be weakened, if desired, as by the formation of slots 20 in the body of the strip 17 adjacent the apertures. The walls of the apertures 18, 19, may then be deflected to the required spacing in the manufacture of the binder by threading the strip 17 upon the posts 13, 14, and then forcing it against the posts with great power.

Mechanism is provided for shifting the locking strip 17 within the casing 15. Preferably this mechanism comprises a rotatable stud 21, located between the apertures 16 provided for receiving the sheet-receiving posts 13, 14. As shown, this stud is journaled adjacent its ends 22, 23, in the walls of the casing 15, the intermediate portion 24 of the stud taking the form of an eccentric which turns in an aperture 25 provided in the clamping strip 17 with which it makes a snug fit, thereby moving the clamping strip in a curved path upon the rotation of the stud. A thumb-piece 26 is provided for turning the stud 21. In order that this thumb piece may be removed when the binder has been filled with leaves, it is pref-

erably fitted into a slot 27, formed in the head of the stud 21 and removably secured therein by compressing the portions of the stud adjacent the slot upon it, as most clearly shown in Fig. 4. If, therefore, it be desired to store the filled binder in closely assembled relation with other articles, the thumb-piece 26 may be removed from the slot by merely prying upward upon it adjacent one of its ends. If access to the leaves contained in the binder be subsequently required, the slotted head of the stud 24 may be engaged by such a tool as a screw-driver (not shown) for rotating the stud. Inasmuch as the locking strip 17 is moved through a curved path, the folded edge, as 28, of the casing 15 conveniently serves as a stop for limiting the movement of the clamping strip in each direction. Preferably the post-receiving apertures 18, 19, provided in the clamping strip 17 are so disposed with respect to the apertures 16 provided in the casing that the apertures 16 are entirely unobstructed by the clamping strip when the latter is moved against the stop in one direction, the assembling of the parts of the binder being readily effected if the stud 21 be turned to the limit of its movement in the corresponding direction.

If desired, the follower member 11 of the cover may be provided with slotted post-receiving apertures 29, 30, thus avoiding the necessity of threading the follower over the filing posts 13, 14, in applying it to the posts above the leaves to be bound. This form of construction is illustrated in Figs. 7, 8 and 9 of the drawings, wherein the core of the binding edge of the follower member 11 of the covers is illustrated as being formed from a sheet metal plate 31 longitudinally folded to channel form and having an open edge 32. A clamping strip 33, having slotted apertures 34, 35, capable of being brought into and out of register with the post-receiving slots 29, 30, upon movement of the strip, is inclosed within the fold of the plate 31. For shifting the clamping strip 33 a rotatable stud 21, entirely similar to that employed in the construction illustrated in Figs. 1 to 6 inclusive, is provided, this stud being so arranged as to move the edge 36 of the plate 31 as a stop to limit the movement of the strip in each direction.

By means of the invention a file binder of simple and efficient construction is provided, its several parts being of such inexpensive material and of such compact form that the binder when filled may be advantageously employed as a permanent cover, thus avoiding the use of the so-called transfer binders.

When the follower member 11 is provided with the slotted post-receiving apertures 29 illustrated in Figs. 7 and 8, these slots are preferably enlarged at the base, as at 37. The slotted apertures 34, 35, of the clamping strip 33 are preferably also enlarged at the base, as at 38. By means of this arrangement the filing posts 13, 14, become locked in position at the base of the slotted apertures when the clamping strip 33 is closed upon them.

I claim as my invention—

1. In a file binder, in combination, a base plate, filing posts rising therefrom, a follower apertured to slide upon the posts, a clamping plate carried by the follower and engageable with both posts, a shaft journaled in the follower, and having a cam formed on its body and fitting snugly but rotatably in an aperture in the clamping plate.

2. In a file binder, in combination, a base plate, a pair of posts rising therefrom, a follower apertured to receive the posts, its apertures being in the form of slots opening through one of its side edges and being enlarged laterally at their inner ends, a clamping plate carried by the follower and apertured to engage the posts, and means for forcing the plate into engagement with the posts and the posts into the lateral enlargements of the follower apertures.

3. In a file binder, in combination, a base, a plurality of sheet-receiving posts rising therefrom, a follower running on the posts, and clamping means carried by the followers including an integral slide plate having apertures to receive the posts and weakening slots adjacent to but separated from the apertures for the purpose set forth.

4. In a file binder, in combination, a base plate having filing posts rising therefrom, a follower apertured from one of its edges to receive the posts, a clamping plate slidably mounted upon the follower and apertured from one of its edges to receive the posts, the apertures of the follower and binding plate being laterally enlarged at their inner ends, such enlargement of coöperating apertures being oppositely directed, and means for shifting the clamping plate.

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