Jan. 9, 1923. 1,441,633.

W. A. RINGLER.

RECORD FILING DEVICE.

FILED MAY 22, 1922.

3 SHEETS—SHEET 1.

Fig. 1.

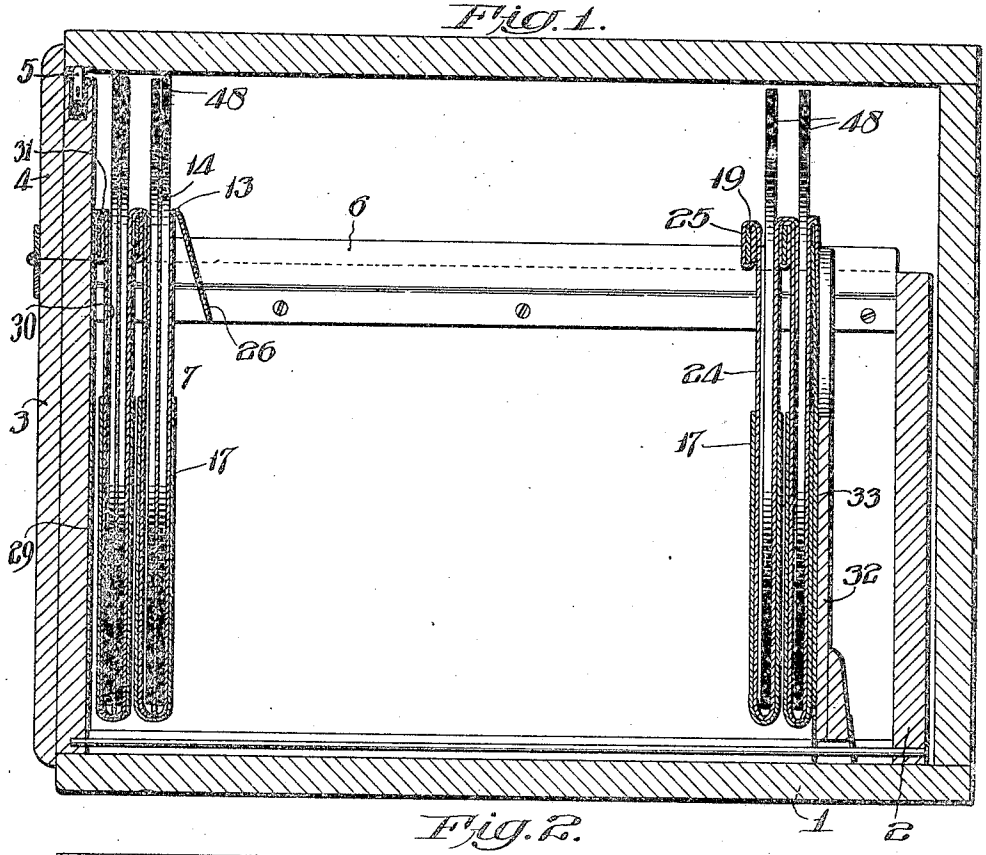
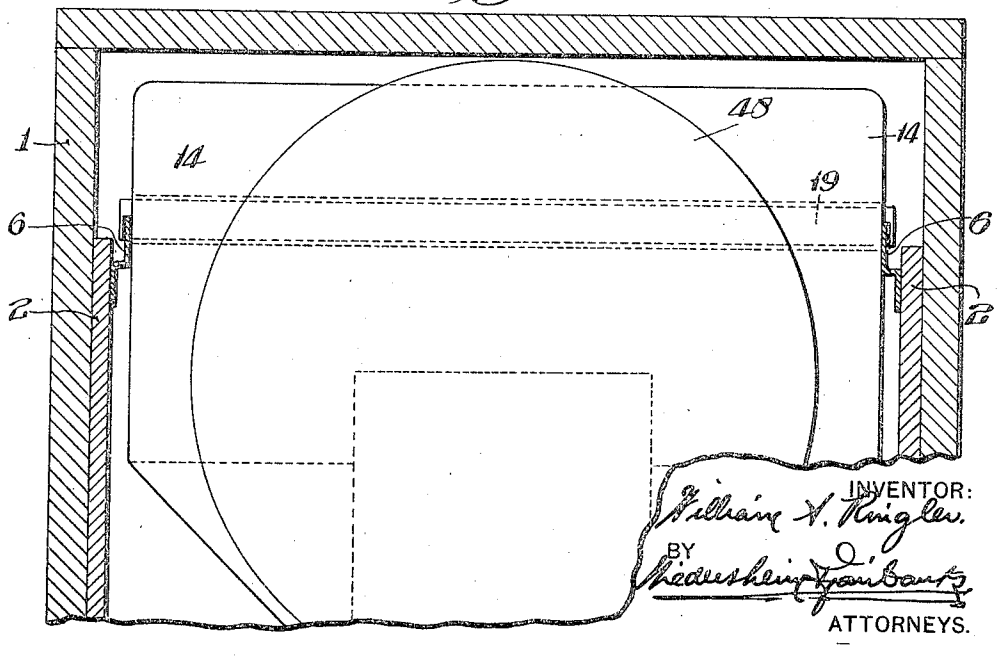


Fig. 2.



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Fig. 3.

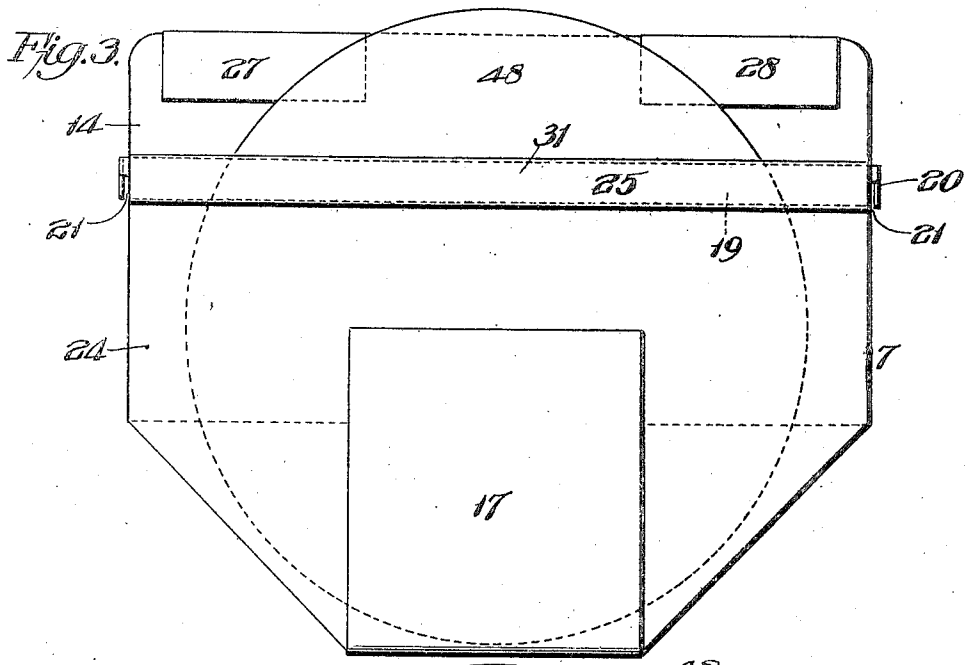
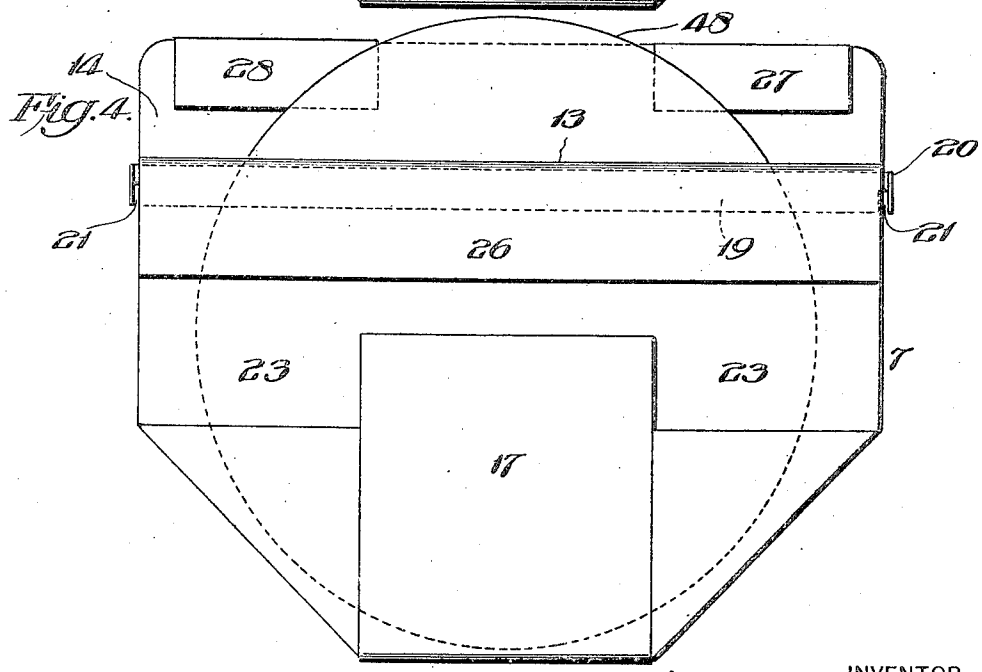


Fig. 4.



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RECORD FILING DEVICE.

FILED MAY 22, 1922. 3 SHEETS—SHEET 3.

Fig. 5.

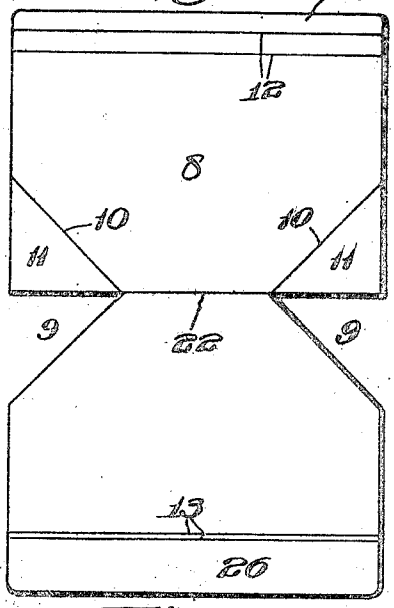


Fig. 8.

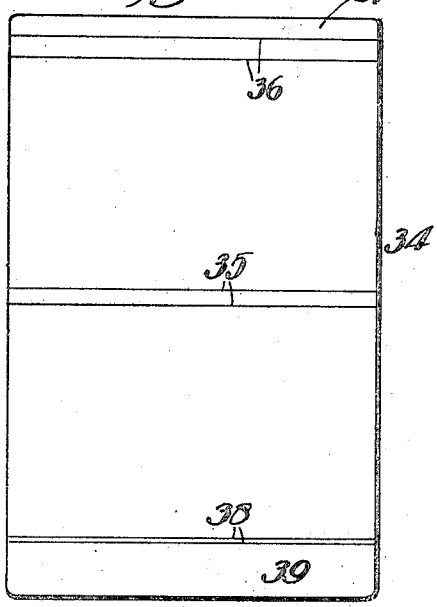


Fig. 6.

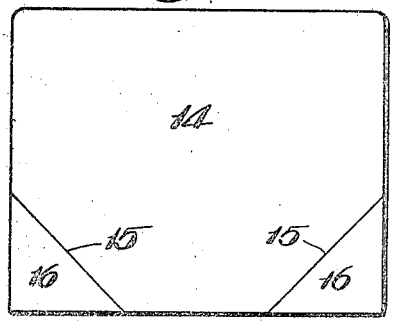


Fig. 9.

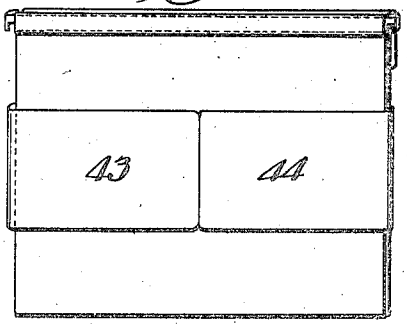


Fig. 7.

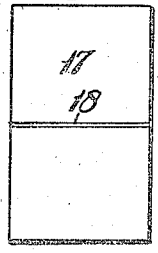


Fig. 11.

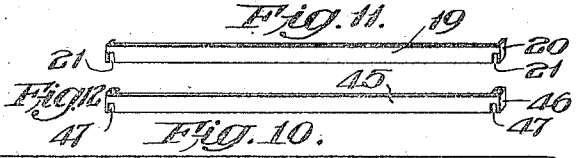
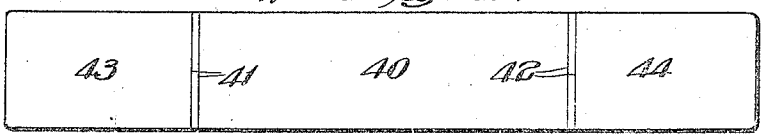


Fig. 10.



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Patented Jan. 9, 1923. 1,441,633

UNITED STATES PATENT OFFICE.

WILLIAM A. RINGLER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO GLOBE WERNICKE CO., OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

RECORD-FILING DEVICE.

Application filed May 22, 1922. Serial No. 562,625.

To all whom it may concern:

Be it known that I, WILLIAM A. RINGLER, a citizen of the United States, residing at Philadelphia, county of Philadelphia, State of Pennsylvania, have invented a new and useful Record-Filing Device, of which the following is a specification.

My present invention comprehends a novel construction and arrangement of a record filing device which is especially designed for the filing of records although, as will be apparent, it can be employed for the vertical filing of articles of any desired character such as, for example, photograph plates and similar articles.

It further comprehends a novel record filing device wherein the articles are filed in pockets which can be readily assembled and interchanged as may be desired and wherein each pocket is constructed in a novel manner and cooperates in a novel manner with an adjacent pocket.

It further comprehends a novel filing device wherein individual article supports are interlocked, the first and last of such supports being adapted to be interlocked with relation to stationary devices.

It further comprehends a novel construction and arrangement of article support having one edge provided with a laterally extending reinforcement having guide engaging means and wherein a flap is provided to interlock with the wall of an adjacent pocket.

Other novel features of construction and advantage will hereinafter more clearly appear in the detailed description.

For the purpose of illustrating my invention, I have shown in the accompanying drawings typical embodiments thereof which are at present preferred by me, since these embodiments will be found in practice to give satisfactory and reliable results. It is, however, to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described.

Figure 1 represents a longitudinal section of a record filing device, embodying my invention.

Figure 2 represents a section at right angles to that seen in Figure 1.

Figure 3 represents, in front elevation, an article support, embodying my invention.

Figure 4 represents a rear elevation of the article support seen in Figure 3.

Figure 5 represents a plan view of a blank employed.

Figure 6 represents a plan view of a partitioning member employed.

Figure 7 represents a plan view of a reinforcing strip employed.

Figure 8 represents a plan view of a modified form of blank which may be employed.

Figure 9 represents a blank seen in Figure 6 in finished condition.

Figure 10 represents a reinforcing blank employed in connection with Figure 9.

Figure 11 represents, in perspective, a supporting member employed.

Figure 12 represents, in perspective, another type of reinforcing member which may be employed.

Similar numerals of reference indicate corresponding parts.

Referring to the drawings, 1 designates a cabinet of any desired type, which is provided with a drawer 2 to which is fixed a front door 3 having a hinged portion 4. This hinged portion 4 is provided with a spring pressed catch 5 which secures it in position. The side walls of the drawer 2 are provided with the guides 6 which are preferably of angular formation having their lower portions secured in any desired manner to the sides of the drawer 2 near the top thereof.

7 designates article supports which, as seen in Figures 3, 4, 5, 6 and 7, are formed from blanks, the outer wall of the article support 7 being formed from the blank 8, see Figure 5. The blank 8 consists of a rectangular shaped strip of material having its sides centrally thereof cut out, as indicated at 9, and one side is provided with the diverging weakened line 10 forming triangular shaped foldable flaps 11. The blank 8 near one end is provided with the weakened line 12 and near the opposite end it is provided with the weakened line 13, these lines being preferably parallel with each other.

14 designates a partitioning strip which is provided with the diverging weakened line 15 thereby forming the foldable flap 16 and 17 designates a reinforcing strip having centrally thereof the weakened line 18.

19 designates a supporting strip which is preferably of metal the ends of which are deflected at substantially right angles, as at 20, in order to form guide members and in proximity to the laterally deflected portion 20 the downwardly depending slots 21 are formed which when the parts are assembled are adapted to engage the guide 6.

In order to form the article supporting device as seen in Figures 3 and 4, the blank 8 is folded on the line 22 and the partitioning strip 14 is placed between the folds. The flaps 11 and 16 are secured together by means of adhesive and the flaps 11 on the partition 14 are secured to the juxtaposed fold 23 by means of adhesive. The reinforcing strip 17 is then secured to the rear division member 23 and to the front division member 24, see more particularly Figures 3 and 4. The article supporting strip 19 is secured to the wall 24 of a pocket by bending the flap 25 around such strip and then securing such flap by means of adhesive to the division member 24.

It will be understood from Figures 3 and 4 that the length of the article supporting bar 19 is such that the free ends thereof are extended beyond the side walls of an article support so that the guide 6 will be received in the slots 21. The rear division wall 23 has the flap 26, see also Figure 5, which is bent on the weakened line 13 so that it will extend downwardly. The partition 14 has secured in any desired manner, for example, by means of adhesive, to its exposed portion at opposite sides, the index portions 27 and 28 which when the parts are assembled in the cabinet will be visible.

The drawer 2 has fixedly connected with it in any desired manner a blank sheet 29 which is provided at its upper end with a flap 30 which is adapted to be folded over the portion 31 to an article support so as to retain the first article support in proper position within the drawer.

32 designates a follower block of any desired or conventional type to which is connected a blank sheet 33 over which the flap 26 of the last article support is adapted to be folded, as will be understood by reference to Figure 1.

In the construction just described each article support will be provided with two pockets to receive the articles, as will be understood by reference to Figure 1. If, however, a single pocket is desired in the article support, the partition 14 may be omitted and the construction will be similar to that shown in the right hand portion of Figure 1.

In the embodiments seen in Figures 8, 9, 10 and 11, I have shown another form of article support which may be advantageously employed and which is especially adapted to carry articles such as, for example, photograph plates. In this embodiment, 34 designates the article blank from which the article support is formed and the article blank 34 is provided with the weakened line 35 centrally thereof, the spaced weakened line 36 at one end which forms the flap 37 and the spaced weakened line 38 near the opposite end which forms the flap 39. When the blank is folded on the lines 35 the strip 40 is secured around them said strip having the weakened lines 41 and 42 thereby forming the end portions 43 and 44 which are secured to a wall of the article support by means of adhesive, the assembled construction being best seen in Figure 9.

45 designates an article supporting bar the function of which is the same as that of the bar 19 seen in Figure 11. The front ends of the supporting bar 45 are deflected laterally at right angles and then inturned to form a substantially rectangularly shaped reinforcement 46 and in proximity to said reinforcement the depending slots 47 are provided which are adapted to receive the guide members 6. The flap 37 is bent around the supporting bar 45 and then secured to the juxtaposed wall of the article support in any desired manner, for example, by adhesive.

The article support just described in connection with the embodiments seen in Figures 8, 9, 10 and 12 operates in substantially the same manner as that heretofore described in connection with other figures of the drawings.

To assemble the article supports all that it is necessary to do is to place them within the drawer so that the guides 6 will be received in the slots 21, seen in Figure 11, or 47 seen in Figure 12, whereupon it will be apparent that each article receiving support is interchangeable and removable as occasion may desire. The flap 26, see Figure 4, or the flap 39, see Figure 8, is bent over the juxtaposed wall of an adjacent article support so that the different article supports are retained in assembled position and at the same time they can be readily removed whenever desired by simply bending outwardly the flap 26, see Figure 5, or the flap 39, see Figure 8. The index strips 27 and 28 are adapted to receive the name or title of the article which the pockets are to receive and in the form illustrated in Figures 3 and 4, the article supports are adapted to receive talking machine records 48 although, as will be apparent, any desired article may be assembled within the pockets.

The index strip 27 receives data indicative of the record 48 in the front pocket and the index strip 28 receives data indicative of the record 48 in the rear pocket so that one can tell at a glance the title of the record which he desires to remove or where the record is to go in case it is to be returned to

its proper pocket. The index strips are also adapted to carry the data indicative of the opposite side of the record in case double faced records are to be filed.

Special attention is directed to the fact that in accordance with my present invention the article or record supports are supported only at their upper ends on the side rails and at their bottoms are unsupported so that they can be slid along the rail and the article supports removed or others inserted and as the pockets are flexible the system is expansible so that the articles, such as, for example, records or plates, can be readily removed from or inserted into place. There is therefore no danger of breaking the records when dropping them into their pockets since they will strike the bottoms of the pockets which do not come into contact with anything.

The article supports are expansible to receive articles of different thicknesses since they are connected only by the flaps and are made of flexible sheet material. It will be apparent that each article support when assembled has its outer wall uniformly supported at its top edge since the strip 19 will support one wall while the flap 26 which extends over the article supporting bar 19 of the next adjacent pocket will uniformly support the outer wall of the article support.

It will be apparent that when all of the article supports are assembled a series of expansible pockets are provided so that there are no spaces between the pockets as the flaps of one article support interlock with the juxtaposed flap of an adjacent article support. It will thus be seen that when an article is inserted it will always drop into a pocket and there is no chance for it to fall down between the pockets as the article supports interlock with each other.

While in the drawings I have preferred to show an article receiving support with one pocket and also one with two pockets formed by a partition or diaphragm wall, it will be apparent that the number of pockets in a single article support can be increased in number as desired by the simple insertion of the desired number of partitions or division walls.

It will now be apparent that I have devised a new and useful record filing device which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description, and while I have, in the present instance, shown and described embodiments thereof which will give in practice satisfactory and reliable results, it is to be understood that these embodiments are susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

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

1. In a record filing system, guides suitably supported, and a series of interchangeable removable article supports interlocked with each other to form a series of expansible record receiving pockets supported only on said guides and freely slidable thereon, said pockets being individually removable without affecting the interlocking of the other pockets.

2. In a record filing system, guides suitably supported, and a series of article supports carried only by said guides and freely slidable thereon, each article support having a flap on one outer wall to interlock with the outer wall of a juxtaposed article support to form a series of expansible pockets.

3. In a record filing system, guides suitably supported and members, one of which is provided with a flap, a series of article supports carried only by said guides and freely slidable thereon, said flap being adapted to be folded over a wall of the first article support, the other of said article supports each having a flap to interlock with a wall of a juxtaposed article support, and the last article support having its flap adapted to interlock with the member juxtaposed thereto.

4. A record filing system, comprising guides suitably supported, a series of article supports each having one outer wall provided with a flap and another wall provided with a laterally extending strip around which another outer wall is secured, said strip having means to engage said guides and the flap of each pocket being adapted to be supported by the laterally extending strip of an adjacent pocket.

5. A record filing system, comprising guides suitably supported, a series of article supports each having one outer wall provided with a flap and another wall provided with a laterally extending strip around which another outer wall is secured, said strip having means to engage said guides and the flap of each pocket being adapted to be supported by the laterally extending strip of an adjacent pocket, and partitioning means dividing each support into a plurality of pockets.

6. A record filing system, comprising guides suitably supported, a series of article supports each having one outer wall provided with a flap and another wall provided with a laterally extending strip around which another outer wall is secured, said strip having means to engage said guides and the flap of each pocket being adapted to be supported by the laterally extending strip of an adjacent support, partitioning means dividing each support into a plurality of pockets, and index strips carried by said partitioning means.

7. An article support formed from a blank of flexible material folded upon itself and having one wall provided with a flap, the upper outer edge of the other wall being folded around a laterally extending strip and secured to such wall, said strip having its free ends extending beyond the sides of the support and provided with recesses adapted to receive means to support the article support.

8. A record filing system, comprising a series of article supports each having one outer wall provided with a downwardly deflected flap to interlock with the juxtaposed outer wall of an adjacent outer support to form a series of article receiving pockets.

9. In a record filing system, a series of article supports each having a downwardly deflected flap on one outer wall to interlock with the outer wall of a juxtaposed article support to form a series of pockets each pocket having a flat bottom portion on which the pockets rest.

10. In a record filing system, front and rear relatively fixed members, one of said members having a flap, and article supports each having a flap on one outer wall to interlock with the outer wall of a juxtaposed article support to form a series of pockets, one end pocket having its flap adapted to overlap one of said members and the flap of the other of said members being adapted to overlap the adjacent wall of a juxtaposed article support.

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Witnesses:
H. S. FAIRBANKS,
C. D. MCVAY.