

May 16, 1944.

H. C. LINDROS

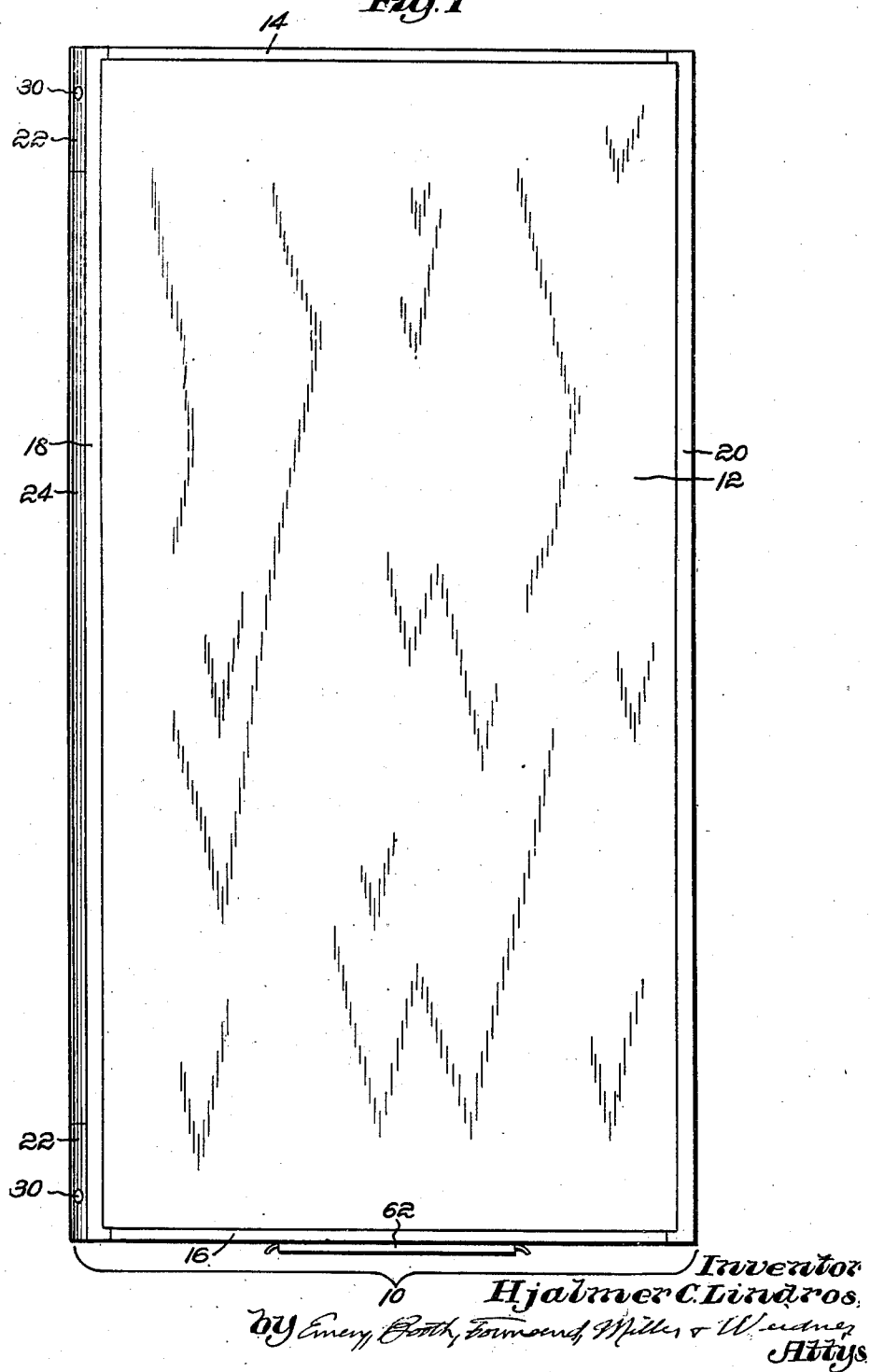
2,348,914

BOOK FILE

Filed May 29, 1943

3 Sheets-Sheet 1

Fig. 1



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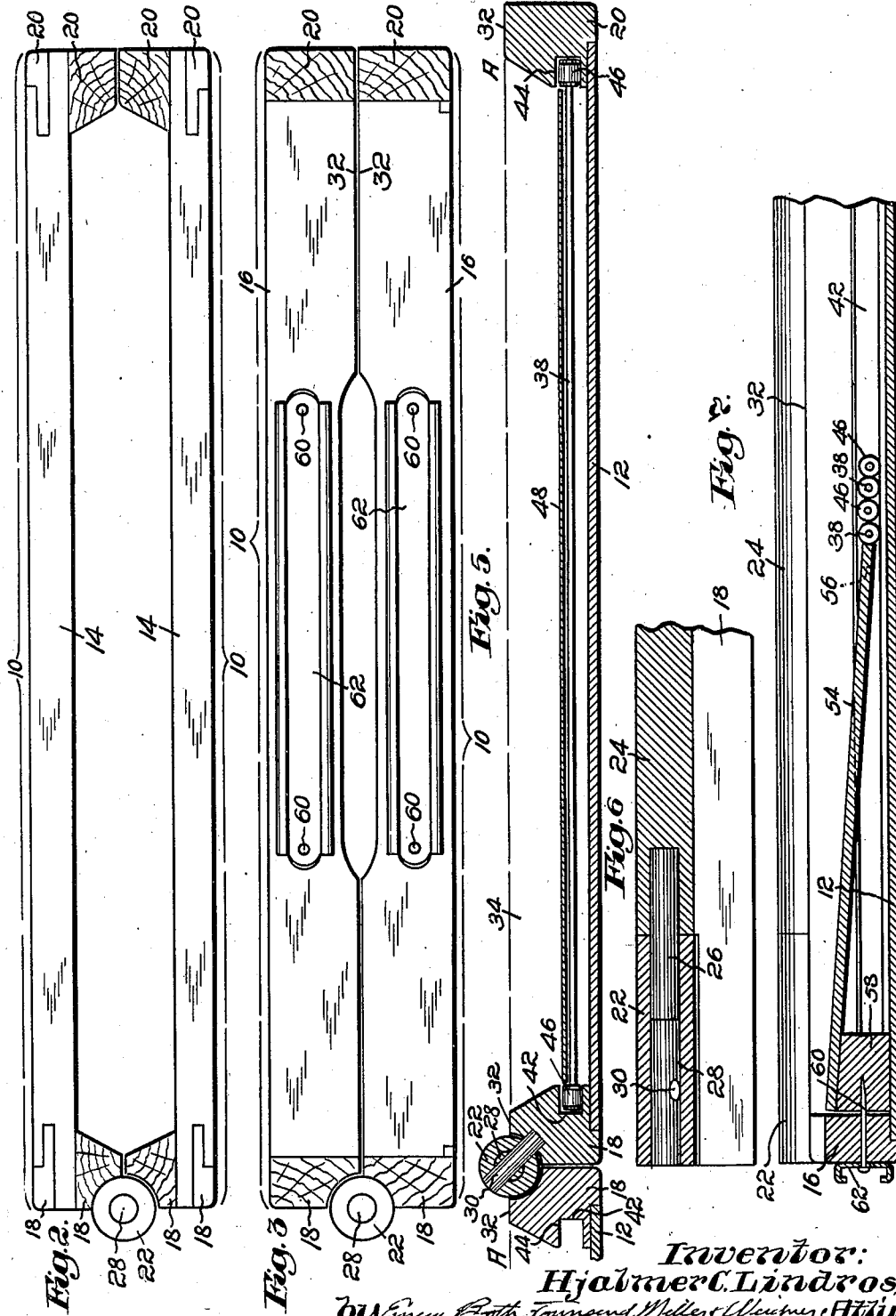
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BOOK FILE

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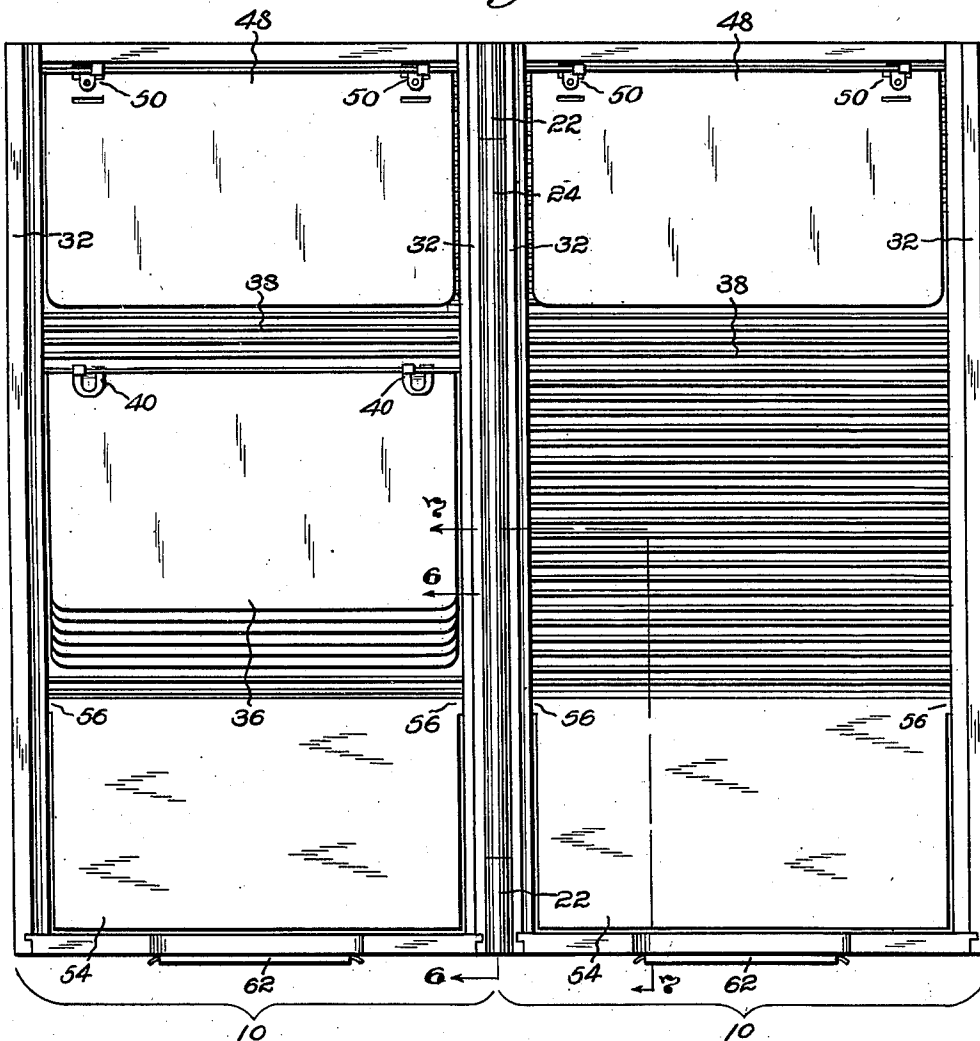
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Fig. 4.



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UNITED STATES PATENT OFFICE

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BOOK FILE

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7 Claims. (Cl. 129—34)

This invention relates to book files having mutually hinged covers, arranged for the filing of leaves carried by leaf supports in loose-leaf fashion for replacement, rearrangement, and reclassification as circumstances require. The invention is concerned with a novel construction of the leaves and the mutual hinging thereof, particularly suitable for the use of non-critical material such as wood in its construction, though conceivably molded plastics might be employed.

The invention will best be understood by reference to the following description when taken in connection with the accompanying drawings of one specific embodiment thereof, while its scope will be pointed out more particularly in the appended claims.

In the drawings:

Fig. 1 is a front elevation of the book file as it appears when closed;

Fig. 2 is a top plan of the same on an enlarged scale;

Fig. 3 is a bottom plan on the same scale as Fig. 2;

Fig. 4 is a front elevation on a reduced scale showing the covers opened to expose the leaves;

Fig. 5 is a cross-sectional view on an enlarged scale;

Fig. 6 is a sectional view on an enlarged scale on line 6—6 of Fig. 4; and

Fig. 7 is a sectional view on an enlarged scale on line 7—7 of Fig. 4;

Referring to the drawings and to the embodiment of the invention illustrated therein by way of example, there is shown a book file comprising a pair of mutually hinged covers 10, 10 each of which (see Fig. 1) comprises a rectangular panel 12 bounded by a rectangular frame composed of an upper strip 14, a lower strip 16 and two lateral or vertical strips 18 and 20 suitably jointed at the four corners. Preferably, the panel (see Figs. 5 and 7) is rabbeted into the strips of the frame so as to be flush therewith. The panel and the boundary frame are preferably made of non-critical material such as wood and appropriately secured together as by glue.

The two contiguous, vertical strips 18 are appropriately hinged together as by the hinging means now to be described. To this end, these two strips constitute hinge pieces. One of them is provided with two knuckles 22 (see Fig. 1) and the other with a knuckle 24 therebetween. For convenience of manufacture, these knuckles are simply cylindrical pieces of wood, for example, fastened to the strips 18. The knuckles of one strip are connected to the knuckle of the other

strip (see Fig. 6) by pintle means such as two loose pintles 26 (though there might be a single, continuous pintle from end to end) axially disposed within the knuckles 22 and 24 and each suitably retained in place (see Fig. 5) as by a coaxial plug 28 secured in place as by a dowel 30 which also secures the knuckle 22 in place, glue being added to secure the parts together.

Referring to Figs. 2 and 3, it will be observed that the covers have faces 32, 32 which, when the covers are closed, are face to face, and when open (see Fig. 5) lie in a plane A—A, in which the common axis (the axis of the pintles 26) lies. It will also be observed that the covers are provided with recesses 34, 34 which, when the covers are closed, constitute a single chamber, said recesses, when the covers are open, being offset from said plane and providing storage spaces for the filing of leaves.

In the present example, there are leaves 36 (see Fig. 4) in the nature of cards supported by appropriate leaf supports such as resilient wires 38 on which the cards are hingedly mounted as by hinge pieces 40. The wires are suitably mounted in the book, preferably on the covers themselves, as by providing the lateral frame strips 18 and 20 (see Fig. 5) with channels 42 and 44 to receive trunnions 46 which are inserted into the channels by springing the wires to reduce their lengths. The trunnions space the wires and provide the desired overlap and exposure of the identification receiving margins of the cards.

An extra heavy card 48 of pressboard, for example, hingedly mounted as by hinge pieces 50 on one of the resilient wires 38 at the top of the frame, can be turned upward to serve as support for upper cards 36 turned upward for writing on their backs. The upper strip 14 of the frame is shallow to permit the card 48 to be laid flat when turned upward. When the card 48 is turned downward, it serves as a protecting shield for the upper cards. At the bottom of the frame, a writing support 54 made of wood, for example, is secured in place at its upper edge as by lugs 56 (see Fig. 4) projecting laterally into the channels 42 and 44, while its lower edge (see Fig. 7) is secured, as by glueing, to a block or blocks 58 of wood, for example, secured to the frame strip 16 as by brads 60 which also secure a label holder 62 to the front of said strip.

The depth of the offset recesses 34 in the covers is such as to accommodate a large mass of the leaves 36 without interference of the leaves in one recess with the leaves in the other recess, especially as the confronting faces 32 of the cov-

ers limit the approach of the covers to each other, so that the recesses 34 when combined form a chamber of ample proportions for the housing of the leaves.

Having thus described one embodiment of the invention, what I claim and desire by Letters Patent to secure is:

1. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular frame composed of a panel bounded by four strips, one strip of each frame being provided with a cylindric surface and a cylindrical knuckle received therein and constituting a hinge piece, and pintle means received in said knuckles and joining said hinge pieces.

2. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular frame composed of a panel bounded by four strips, one strip of each frame being provided with a recess in which a knuckle is secured, thus constituting a hinge piece, a pintle received in said knuckles joining said hinge pieces and a pintle retainer engaging said pintle endwise.

3. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular panel bounded by and secured to a rectangular frame composed of an upper strip, a lower strip, and two lateral strips jointed at the four corners, two contiguous lateral strips constituting hinge pieces, one provided with two knuckles and the other with a knuckle therebetween, said knuckles consisting of at least three separate cylindrical pieces, two knuckles of one contiguous strip being connected to a knuckle of the other contiguous strip by pintle means, and two dowels which secure said two knuckles to one of said contiguous strips.

4. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular panel bounded by and secured to a rectangular frame composed of an upper strip, a lower strip, and two lateral strips jointed at the four corners, two contiguous lateral strips constituting hinge pieces, one provided with two knuckles and the other with a knuckle therebetween, said knuckles consisting of at least three separate cylindrical pieces, two knuckles of one contiguous strip being connected to a knuckle of the other contiguous strip by pintle means comprising at least one pintle axially disposed therein and retained in place by a coaxial plug.

5. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular panel bounded by and secured to a rectangular frame composed of an upper strip, a lower strip, and two lateral strips jointed at the four corners, two contiguous lateral strips constituting hinge pieces, one provided with two knuckles and the other with a knuckle therebetween, said knuckles consisting of at least three separate cylindrical pieces, two knuckles of one contiguous strip being connected to a knuckle of the other contiguous strip by pintle means comprising at least one pintle axially disposed therein and retained in place by a coaxial plug, which in turn is retained in place by a dowel.

6. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular panel bounded by and secured to a rectangular frame composed of an upper strip, a lower strip, and two lateral strips jointed at the four corners, two contiguous lateral strips constituting hinge pieces, one provided with two knuckles and the other with a knuckle therebetween, said knuckles consisting of at least three separate cylindrical pieces, two knuckles of one contiguous strip being connected to a knuckle of the other contiguous strip by pintle means comprising at least one pintle axially disposed therein and retained in place by a coaxial plug, which in turn is retained in place by a dowel disposed radially and extending through said plug, through the contiguous knuckle, and into the contiguous lateral strip.

7. In a book file, the combination of a pair of mutually hinged covers, each comprising a rectangular panel bounded by a rectangular frame composed of an upper strip, a lower strip, and two lateral strips jointed at the four corners, two contiguous lateral strips constituting hinge pieces, one provided with two knuckles and the other with a knuckle therebetween, said knuckles consisting of at least three separate, cylindrical pieces, two secured to one of said contiguous lateral strips and a third secured to the other contiguous lateral strip, the two knuckles of one contiguous strip being connected to the third knuckle of the other contiguous strip by pintle means comprising two loose pintles axially disposed within said knuckles and retained in place by two coaxial plugs secured in place by dowels.

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