

April 15, 1924.

1,490,353

I. WAGEMAKER

FILING TRAY CONSTRUCTION

Filed Aug. 11, 1921

2 Sheets-Sheet 1

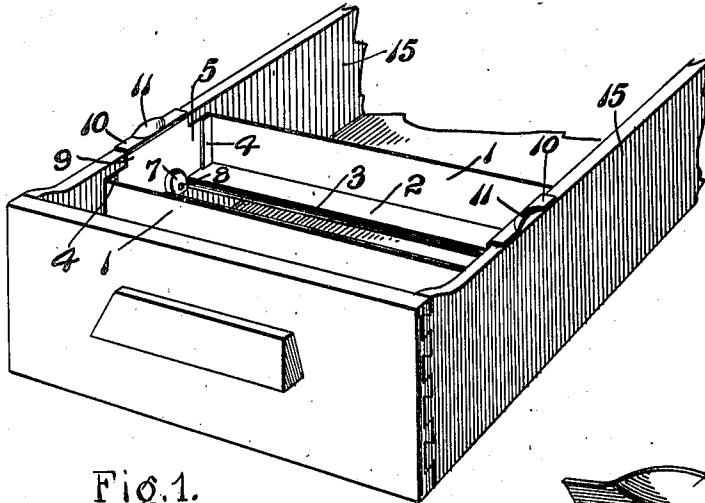


Fig. 1.

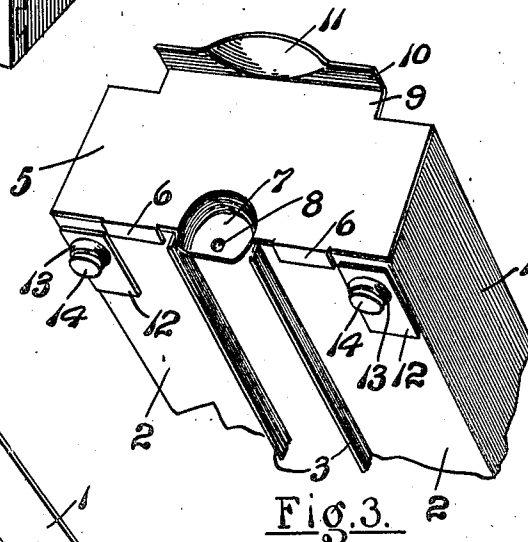


Fig. 3.

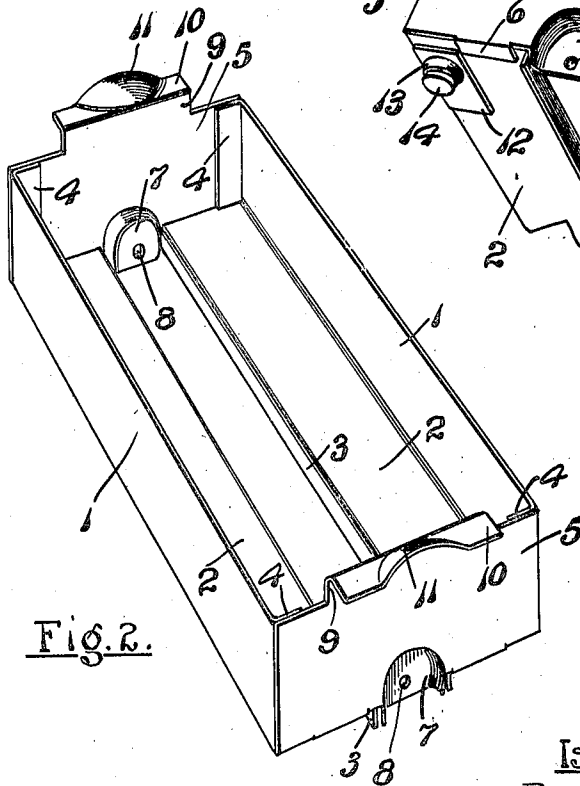


Fig. 2.

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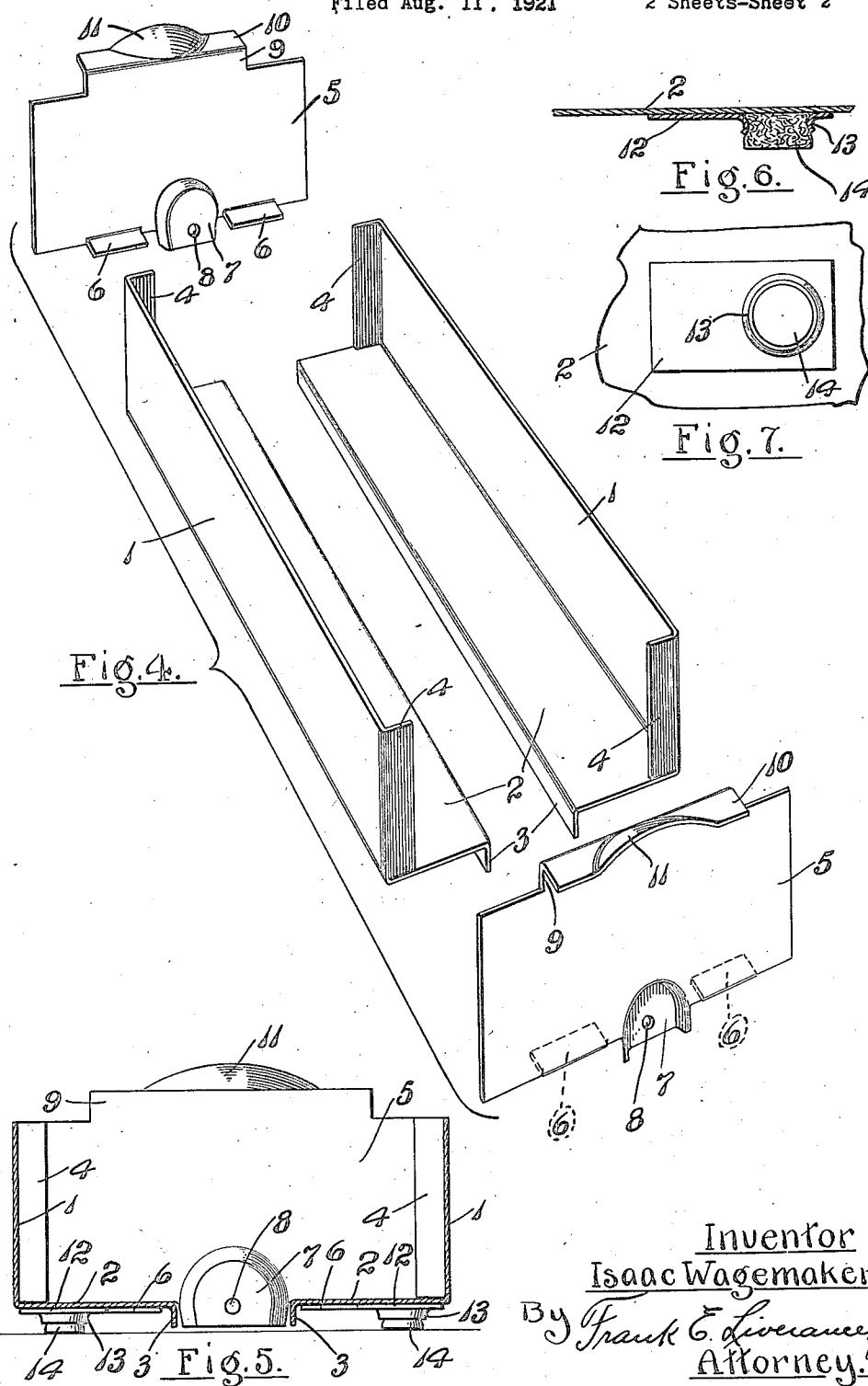
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## UNITED STATES PATENT OFFICE.

ISAAC WAGEMAKER, OF GRAND RAPIDS, MICHIGAN.

## FILING-TRAY CONSTRUCTION.

Application filed August 11, 1921. Serial No. 491,322.

*To all whom it may concern:*

Be it known that I, ISAAC WAGEMAKER, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Filing-Tray Constructions; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to filing trays, and is particularly concerned with improvements and perfections in trays of the type shown in my previous application for Patent, Ser. No. 437,717, filed Jan. 17, 1921. A primary object and purpose of the present invention is to construct the filing tray simply and economically from sheet metal and in such manner that the tray may be suspended on and between the sides of a drawer or like receptacle, the suspending means used being so formed that one may readily enter the fingers thereunder for removal of the tray from the drawer, and the tray being equipped with a novel supporting foot for use when the same is removed from the drawer and supported on any flat surface. These trays are designed to be placed side by side in a drawer, as in a desk or other similar article of furniture capable of being used for filing, and supported so that their upper sides are all in the same horizontal plane irrespective of the different depths of the trays.

For a detailed explanation of the constructions embodying my invention, reference may be had to the following description, taken in connection with the accompanying drawings, in which,

Fig. 1 is a fragmentary perspective view of a drawer equipped with one of the trays of my invention.

Fig. 2 is a perspective view of the tray, looking at the same from above.

Fig. 3 is a fragmentary perspective view of the tray, looking at the same toward one end and from below the tray.

Fig. 4 is a perspective view of the different parts of the tray, except the supporting feet, in separated unassembled relation.

Fig. 5 is a vertical transverse section through the tray.

Fig. 6 is a fragmentary vertical section through the supporting foot for the tray

and adjacent bottom to which it is attached, and

Fig. 7 is an under plan view thereof.

Like reference characters refer to like parts in the different figures of the drawings.

In the construction of the tray, two pieces of sheet metal are formed to make vertical sides 1 and inwardly turned horizontal bottom sections 2, each at its inner edge being turned downwardly to make a reinforcing flange 3, as shown. At each end of each of the sides 1, flanges 4 are turned inwardly at right angles. These members thus formed have end members attached thereto, each consisting of a vertical plate 5 of sheet metal provided with inturned ears 6 at its lower edge spaced apart so that one passes under each end of each of the bottom sections 2. When the ends are placed against the flanges 4 with ears passing under the bottom sections 2, the same may be permanently connected together in any suitable manner, preferably, by electric spot welding. Each end plate 5, at its lower portion and between the inturned ears 6 is formed with an inwardly pressed embossing 7 having an opening 8 therethrough in which the rod on which the follower member used with filing receptacles is mounted. The inwardly pressed portions 7 lie between the flanges 3, as best shown in Fig. 5.

At its upper edge, each end plate 5 is extended upwardly at its center portion for a short distance, as indicated at 9 and then bent outwardly to form a lip 10, the middle portion of which is pressed upwardly to form a curved finger grip or hold 11.

The foot members for supporting the tray when placed on the top of a desk, table, or other flat support each comprise a piece of flat sheet metal 12 having an opening punched therethrough, at the same time forming an annular depending flange 13 around the opening. A short cylindrical piece of felt or equivalent soft material is forced through the opening. The diameter of the cylinder 14 normally is larger than the diameter of the opening but the material is readily subjected to compression while going through the opening, expanding below the opening as shown in Fig. 6. The cylindrical pad 6 is thus securely held in place. The plates 12 are secured to the under sides of the bottom sections 2 of the tray at each corner by

spot welding. With supporting feet of this character at the corners of the tray, the same may be placed on any polished surface, such as a desk or table top without liability of injury thereto.

The trays when placed between the sides 15 of a drawer, as shown in Fig. 1 are hung from the upper edges of the drawer by the lips 10 and with a plurality of trays in a drawer side by side, all have their upper sides in the same horizontal plane. It will be noted that the finger holds at 11 are raised above the upper edges of the drawer sufficiently for the entrance of the fingers, this being of value when the tray is either placed 15 in the drawer or taken away therefrom, and of additional value in carrying the tray to any desired place.

The invention is particularly practical 20 and useful in filing in drawer-like receptacles and has proved its merit in practice. The appended claims define the invention and I consider myself entitled to all forms of construction coming within their scope.

25 I claim:

1. A filing tray having sides, ends and a bottom, said ends being of sheet metal and at their upper portions substantially mid-way between their side edges being formed 30 with integral lips bent outwardly substantially at right angles for suspending the tray between the sides of a receptacle, each of said lips having an upwardly pressed finger hold formed therein at an intermediate por-

tion of the lip between the ends thereof, 35 the portions of the lip at each end thereof being substantially flat to bear against the upper edges of the sides of the receptacle in which suspended, substantially as described. 40

2. A filing tray comprising two sheet metal sections each formed with a vertical side and a bottom section with flanges turned inwardly from the ends of the vertical sides. two end plates located one at each end of 45 the said sheet metal sections and against said flanges, each being formed with two spaced-apart ears passing under the bottom sections, said ears being connected to the bottom sections and said end plates being connected 50 to the said flanges, and means at the upper portions of said end plates for suspending the tray on and between spaced-apart sides of a receptacle, substantially as described. 55

3. A filing tray of sheet metal having 55 sides, ends and bottom, supporting foot members attached to the under side of said bottom, each of the foot members comprising a plate of sheet metal having an opening therethrough with an annular depending 60 flange around the opening, and a cylindrical pad of compressible material forced through said opening, said pad normally being of larger diameter than the diameter of the opening and expanding back to normal size 65 below said flange, substantially as described.

In testimony whereof I affix my signature.  
ISAAC WAGEMAKER.