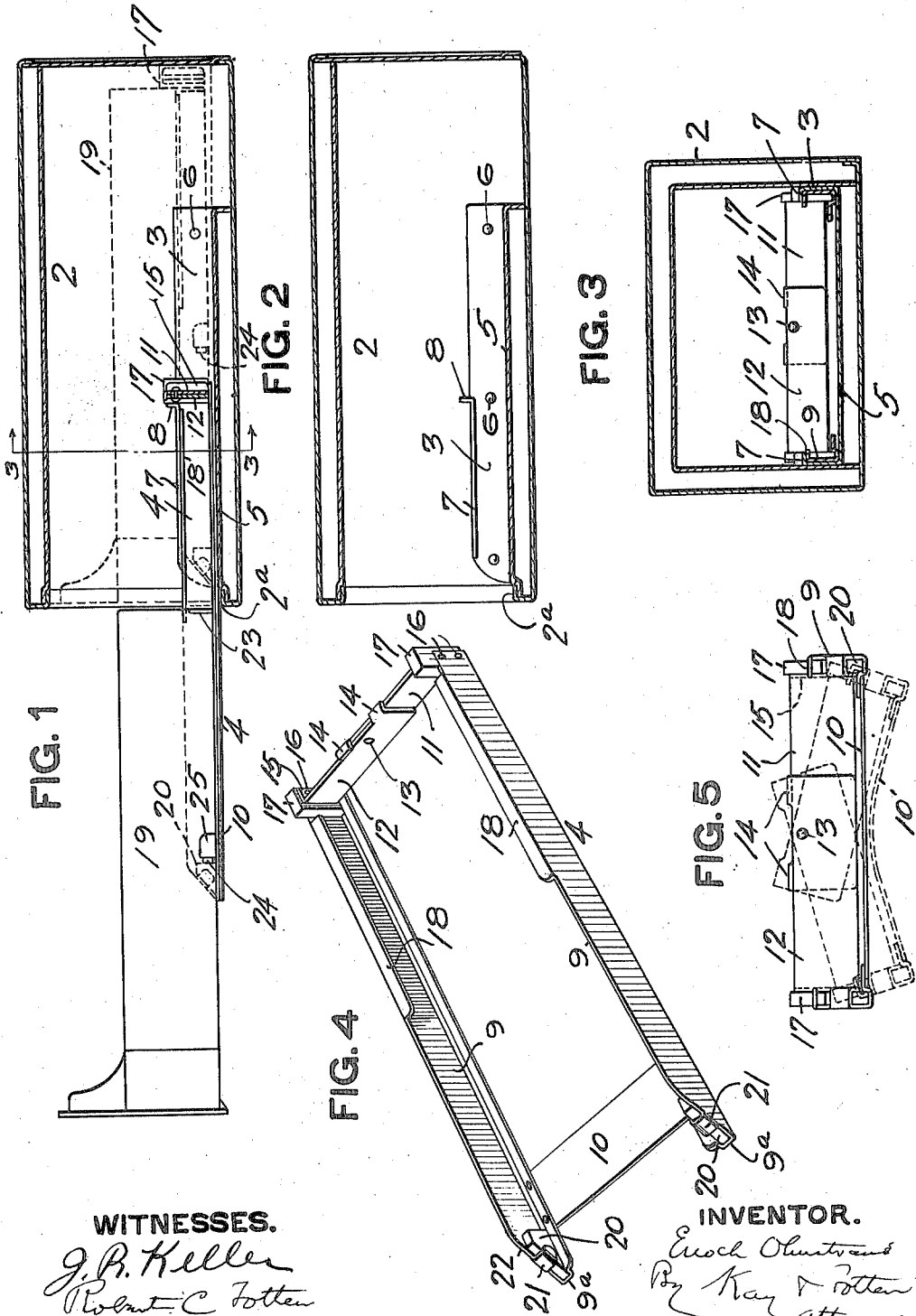


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APPLICATION FILED MAY 15, 1909.

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2 SHEETS—SHEET 1.



WITNESSES.

J. B. Keller  
Robert C. Fother

INVENTOR.

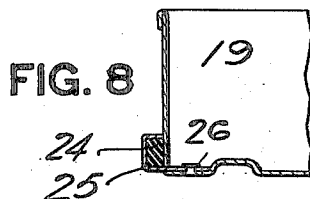
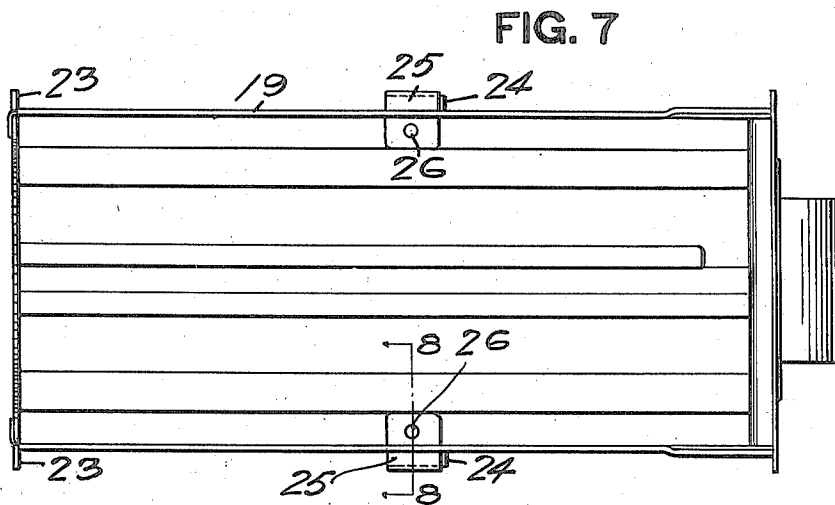
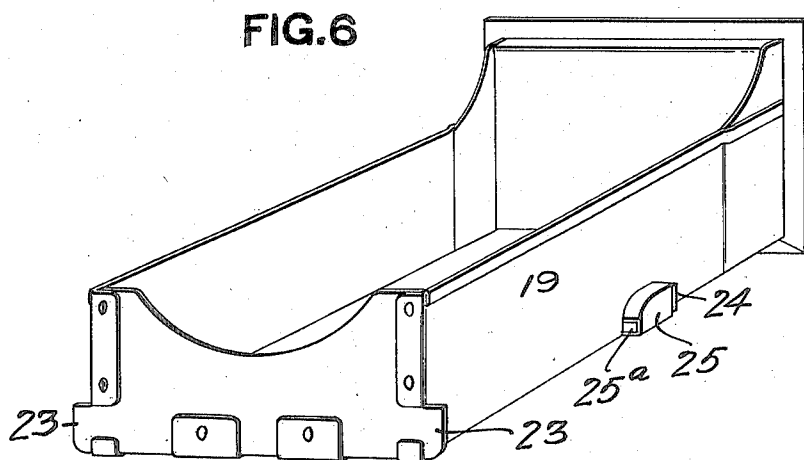
Erich Ohnstrand  
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2 SHEETS—SHEET 2.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

ENOCH OHNSTRAND, OF JAMESTOWN, NEW YORK, ASSIGNOR TO ART METAL CONSTRUCTION COMPANY, OF JAMESTOWN, NEW YORK, A CORPORATION OF NEW YORK.

## CARD-INDEX CABINET.

947,842.

Specification of Letters Patent.

Patented Feb. 1, 1910.

Application filed May 15, 1909. Serial No. 496,253.

*To all whom it may concern:*

Be it known that I, ENOCH OHNSTRAND, a resident of Jamestown, in the county of Chautauqua and State of New York, have invented a new and useful Improvement in Card-Index Cabinets; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a cabinet or other case for the filing of cards, envelopes, etc., or for any other use to which it may be found applicable. In this class of devices it is common to have the drawer mounted in an extension-slide in such manner that after the slide has been pulled out to its full extent the drawer may be still farther withdrawn, and in this way the drawer can be drawn out to the full length while the extension-slide holds it rigidly in position to prevent its falling or tilting.

The object of the present invention is to improve in certain respects devices of this character and more especially to provide for the removal of the extension-slide without the necessity of separating any of its parts or removing the guides in which it moves.

To these ends my invention comprises, generally stated, a cabinet of this character in which the inner walls are provided with the guides for the extension-slide, together with stops for the prevention of the withdrawal of the slide, and means for collapsing or contracting the extension-slide in such a manner that it may be withdrawn from its guides without removing any of the parts.

My invention further comprises certain details of construction, all as fully herein-after set forth.

In the accompanying drawings Figure 1 is a longitudinal sectional view of my improved device showing the drawer in its outermost position in full lines, and showing it in its innermost position in dotted lines; Fig. 2 is a longitudinal sectional view of the case showing the drawer removed and illustrating the guides for the extension-slide; Fig. 3 is a cross section; Fig. 4 is a perspective view of the extension slide removed; Fig. 5 is a rear view of the extension-slide showing the manner in which it may be compressed or collapsed; Fig. 6 is a perspective view of the drawer; Fig. 7 is a plan view of same, and Fig. 8 is a detail of one of the buffers.

In the drawings the numeral 2 designates

a suitable cabinet or case which, in the present instance, is illustrated as formed of metal. These cases may be used singly or in sets, as desired. The top, bottom and sides of the case are made of two thicknesses of metal with a space between the same which gives a strong, durable, fire-resisting construction. The guides 3 form the guides and supports for the extension-slide 4 and these guides may be formed integral with the bottom plate 5, as clearly indicated in Fig. 3 by bending up flanges to form said guides. This bottom plate does not extend to the extreme rear end of the case, as it is not necessary to support the drawer at the extreme rear end. The bottom plate is slightly raised above the sill or edge 2<sup>a</sup> of the case to relieve said sill of wear in the insertion and withdrawal of the drawer. The flanges forming the guides 3 are connected to the inner walls of the case by rivets 6. The inwardly projecting flanges 7 of the guides 3 have their inner ends turned up as at 8 to form a stop for the extension-slide.

The extension-slide 4 is made up of the side-bars 9 connected at their outer ends by the flexible plate 10. The side-bars 9 of the extension slide are connected at their rear ends by the bars or bands 11 and 12 which are pivotally connected, as at 13, and each bar is provided with a lug 14 adapted to engage the upper edge of the other bar. The inner ends of the bars 11 and 12 are provided with the flanges 15 through which pass the rivets 16 connecting the bars 11 and 12 to the side-bars 9. Interposed between the flanges 15 and the side-bars 9 are the buffers 17 which are adapted to engage the stops 8 on the guides 3. These buffers act in a triple capacity. Their rear faces project beyond the side and end bars of the extension-slide and abut against the inner end wall of the case 2 to reduce the noise when said slide is pushed in to its innermost position. Their front faces act as a cushion when brought into contact with the stops 8, and thirdly, said front faces act as a cushion for the drawer when it is pushed in to its innermost position with its lugs 23 in contact with said buffers. The extension-slide is provided with the runners 9<sup>a</sup> which move in contact with the bottom 5 to reduce the friction.

The side-bars 9 are provided with the in-

wardly projecting flanges 18 extending for a portion of the length of the side-bars, said flanges forming the guides for the drawer 19. At the outer ends of the side-bars 9 are the buffers 20 formed of rubber or other suitable material and said buffers are secured in place by means of the clips 21, said clips forming part of the side-bars 9 and being bent over in such manner as to securely engage and hold in place the buffers 20. The outer ends of the side-bars are inclined, as at 22, so that when the clips are bent over in position to engage the buffers a tapering seat is formed and accordingly the buffers themselves are made wedge-shaped so as to fit in said tapering seats and the action of the drawer in striking against said buffers only acts to insure their being more tightly wedged in position.

The drawer 19 is provided at its inner end with the lugs 23 which move in the guides formed by the flanges 18. The lugs 23 engaging the flanges 18 in this way act to retain the drawer in the extension-slide and prevent its tilting when withdrawn. The flanges 18 extend far enough to engage the lugs 23 when the drawer has been withdrawn to the full extent and the buffers 24 are in contact with the buffers 20. This construction makes it a very easy and simple matter to remove the drawer from the extension-slide or insert it therein, as it is only necessary to lift the front end of the drawer to free the buffers 24 from the buffers 20 when the drawer is free to be removed. On the sides of said drawers approximately midway of their length are the buffers 24. These buffers 24 are formed of rubber or other suitable material and fit within the keepers or sockets 25 which are bent up from a piece of metal riveted to the bottom of the drawer, as at 26. An opening is formed in the side of the drawer and the metal extends through said opening and is then bent up to form the keeper to hold the buffer securely therein. This keeper is slightly rounded or tapered at its inner end so as to more securely hold the buffer in position and prevent its being dislodged therefrom by contact with the outer buffers 21 when the drawer is drawn out to its full extent. An opening 25<sup>a</sup> is left at the small end of the keeper 25 so that access is given to the rubber contained therein to force said rubber from the keeper when said rubber is worn to such an extent as to render it inefficient and a new one is to be inserted. The drawer may be provided with the ordinary follower (not illustrated) for the purpose of securing the cards or envelopes in position within the drawer.

If it is desired to remove the extension-slide 4 from the case or insert it therein, it is only necessary to apply sufficient downward pressure to the side bars 9 of said slide

in order to compress or collapse the frame sufficiently to permit of the insertion of the slide within the case so as to engage the guide-ways 3, as indicated in dotted lines, Fig. 5. The extension slide is collapsed in the same manner when it is desired to remove it from the case and in this action of collapsing or compressing the extension-slide the outer cross bar 10 will be slightly bent in the operation, but being formed of flexible metal it will readily yield and can be again easily straightened when the adjustment of the slide has been made.

By my invention I provide a construction in which the number of parts are greatly reduced and the construction simplified, while at the same time the parts when combined form a very neat and strong construction.

What I claim is:

1. The combination of a suitable case, a transversely compressible extension-slide mounted therein, and a drawer carried by said compressible extension slide.

2. The combination of a suitable case, an extension-slide mounted therein comprising side-bars and end-bars, the rear end-bar being in two parts movable the one with relation to the other, and a drawer mounted on said extension-slide.

3. The combination of a suitable case, an extension-slide mounted therein comprising side-bars and end-bars, the rear end-bar being in two parts pivotally connected, and a drawer mounted on said extension-slide.

4. The combination of a suitable case, an extension-slide mounted therein comprising side-bars and end-bars, the rear end-bar being in two parts connected by a pivotal connection, a projection on each part engaging the upper edge of the other part, and a drawer mounted on said extension-slide.

5. The combination of a suitable case, an extension-slide mounted therein comprising side-bars and end-bars, the front end-bar being flexible, the rear end-bar being in two parts movably connected, and a drawer mounted in said extension-slide.

6. The combination of a suitable case having guideways therein, an extension-slide mounted in said guideways, a rear cross-bar on said extension-slide, and buffers interposed between the side-bars of said extension-slide and the ends of said crossbar.

7. The combination of a suitable case having guideways therein, an extension-slide mounted in said guideways, a rear cross-bar connecting the side-bars of said slide, said rear cross-bar having flanges at the ends thereof, and buffer-blocks interposed between said flanges and said side-bars.

8. The combination of a suitable case having guideways therein, an extension-slide mounted in said guideways, a rear cross-bar connecting the side-bars of said slide, said

rear cross-bar having flanges formed at the ends thereof, and buffer-blocks interposed between said flanges and said side-bars, the devices connecting said end-bar and side-bars passing through said buffer-blocks.

9. The combination of a suitable case having guideways therein, an extension-slide mounted in said guide-ways, lugs at the outer ends of the side members of said extension-slide bent over to form seats, buffer-blocks in said seats, and a drawer mounted in said slide adapted to engage said buffer-blocks.

10. The combination of a suitable case having guideways therein, an extension-slide mounted in said guideways, the outer ends of the side members of said extension-slide being inclined, lugs formed thereon bent over to form wedge-shaped seats, buffer-blocks engaging said seats, and a drawer mounted in said slide adapted to engage said buffer-blocks.

11. The combination of a suitable case, a drawer, a stop for said drawer, a metal clip projecting beyond the side of said drawer, and bent up to form a socket and a buffer-block in said socket adapted to engage said stop.

12. The combination of a suitable case, a drawer, a stop for said drawer, said drawer having an opening formed in the side there-

of, a metal clip secured inside of said drawer and projecting through said opening, and bent around to form a socket, and a buffer in said socket adapted to engage said stop.

13. The combination of a suitable case, the bottom-plate of said case having upwardly projecting flanges forming guideways, an extension-slide mounted in said guide-ways, and a drawer mounted in said extension-slide.

14. The combination of a suitable case, the bottom-plate of said case having upwardly projecting flanges forming guideways, stops formed on said flanges, an extension-slide mounted in said guideways, and a drawer mounted in said extension-slide.

15. The combination of a case, an extension-slide, a drawer, stops on said case, and buffers at the inner end of said extension-slide adapted to engage the inner end of said case, the stops on said case, and the inner end of said drawer.

In testimony whereof, I the said ENOCH OHNSTRAND have hereunto set my hand.

ENOCH OHNSTRAND.

Witnesses:

C. W. STRONG,  
FRED W. M. STEARNS.