

952,699.

Patented Mar. 22, 1910.

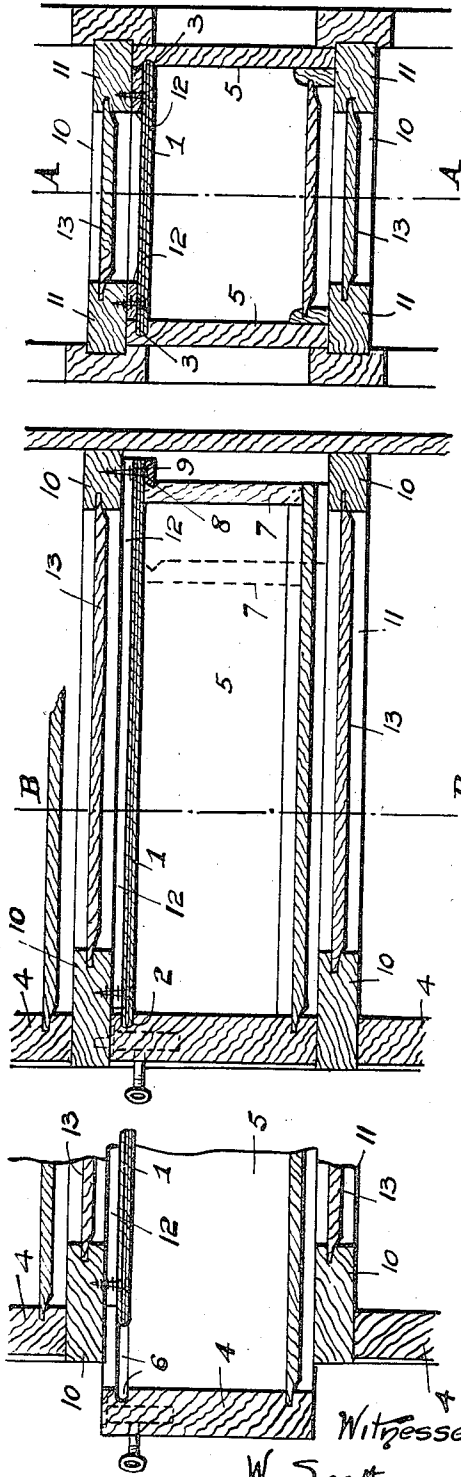


Fig. 3.

Fig. 1.

Fig. 2.

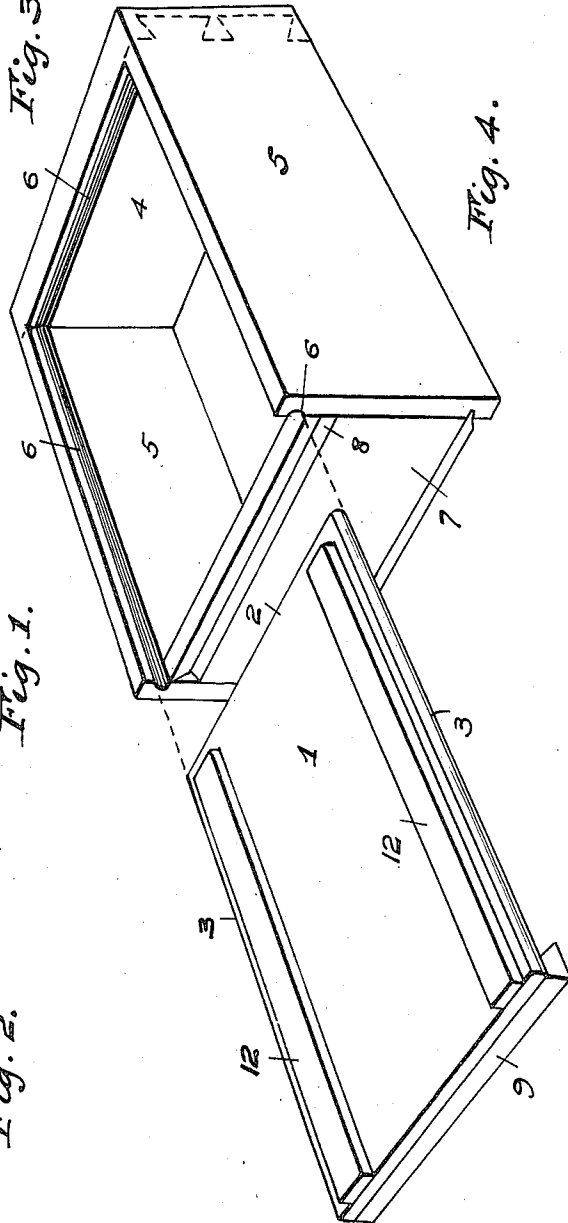


Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES COYNE BRIEN, OF LIVERPOOL, ENGLAND.

DUST-PROOF DRAWER.

952,699.

Specification of Letters Patent. Patented Mar. 22, 1910.

Application filed December 7, 1908. Serial No. 466,256.

To all whom it may concern:

Be it known that I, CHARLES COYNE BRIEN, a subject of the King of Great Britain, residing at Liverpool, England, have invented certain new and useful Improvements in Dust-Proof Drawers, of which the following is a specification.

This invention relates to drawers provided with dust-excluding devices. Hitherto these appliances have not been perfectly efficient inasmuch as they have depended to a greater or less extent for their efficiency upon the dust-proof, and consequently accurate and expensive, construction of the casing or framework itself in which the drawers slide, and also upon the degree of accurate fitting of the drawer in the casing.

The object of my invention is to provide a drawer with a cover which shall make a perfectly close joint all around the top edges of the drawer, thus entirely excluding dust. With this method in which each drawer is fitted with its own inclosing cover or lid it will be apparent that the dust excluding efficiency of the arrangement is quite independent of the fit of the drawer in the casing or of the class of workmanship of the casing, and a much more economical and lighter construction of casing may therefore be adopted.

The invention is illustrated in the accompanying drawings, in which,

Figure 1. is a longitudinal section on the line A—A Fig. 3, through a drawer and surrounding casing constructed in accordance with this invention. Fig. 2 is a fragmentary detail view analogous to Fig. 1, showing the front of the drawer slightly opened. Fig. 3. is a cross section on the line B—B Fig. 1. Fig. 4. is a perspective view from the rear showing a drawer and its cover.

In carrying out the invention I make use of a cover 1 preferably of three ply or venesta boarding and framed with a rounded edge 2 on its front and two sides 3. The inside of the front 4 of the drawer and the two sides 5 near the top are cut with grooves or recesses 6 into which the cover 1 can slide. In the outside of the drawer back 7 is cut a second groove 8, and a tongued and beaded piece 9 adapted to fit therein is secured to the back part of the cover 1. The drawer back 7 is made slightly lower than the sides, as shown more clearly in Fig. 4, so that the cover can pass the back as the drawer is

opened. The cover 1 is fixed to the underside of the usual open framing consisting of drawer rails 10 and runners 11 by means of screws or otherwise, so that when the drawer is pulled out the cover 1 remains behind in place, see Fig. 2, and when the drawer is pushed in the cover edges 2 and 3 and tongued piece 9 enter their corresponding grooves 6 and 8 in the drawer, the cover then forming a closed lid to the drawer and dust is thus entirely excluded independently of any coöperation of the framework or casing. It is preferred to use strips 12 between the cover 1 and rails or runners 10, 11, which strips serve as distance pieces for the cover and also as guides for the upper edges of the drawer sides above the grooves 6, thus preventing binding of the drawer sidewise in the casing.

Drawers fitted with dust excluding devices in the way described adapted to completely inclose the drawer when shut, present many advantages over previous devices designed to effect this object, inasmuch as each drawer becomes a separate and self inclosed unit, independent—as far as relates to its dust proof character—of the quality of workmanship, mode of construction, or type of the framework or casing, or of the accurate fitting of the drawer in the framework.

Figs. 1, 2, and 3, of the drawings show the present usual arrangement of construction of casing where the front and rear rails 10 are framed to the runners 11 and fitted with dust boards 13. Such dust boards are necessary where the drawers are open at the top, but with my invention where each drawer is provided with its own separate dust proof cover these dust boards 13 are unnecessary and may be entirely dispensed with and consequently also the back rail 10 may be eliminated, leaving merely the front rail 10 and side runners 11. Again, my invention would be equally effective in that type of work where from the fitting of a broad vertical pilaster designed to give a heavy appearance to the work, the drawer sides are necessarily some distance away from the interior vertical partitioning in the framework, and where other dust proof devices dependent upon a close fit at the sides would be ineffective.

While I have shown one type of engagement of the cover and the drawer I do not confine myself to this precise method, since it will be obvious there are several types of

dust proof joints which would be equally applicable for the purpose, but the essential feature characterizing my invention is the absolute closing or sealing of the drawer when shut by a separate cover distinct from the ordinary covering formed by the usual casing framework.

Claims.

1. In combination, a drawer casing; a separate drawer cover affixed to the casing; a tongue piece at the rear of said cover; a drawer sliding within the casing; inner grooves on the front and sides of the drawer, and an outer groove on the back of the drawer, the inner and outer grooves in the drawer being adapted to mesh with the edges of the cover and the tongue piece respectively when the drawer is shut.

2. In combination, a drawer casing; a

separate drawer cover affixed to the casing and mounted upon guide strips so as to project beyond the outer edges thereof; a tongue piece at the rear of the cover; a drawer having a back lower than its front and sides and sliding within the casing so as to be guided by the cover and the strips; inner grooves on the front and sides of the drawer and an outer groove on the back of the drawer, the inner and outer grooves in the drawer being adapted to mesh with the edges of the cover and the tongue piece respectively when the drawer is shut.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES COYNE BRIEN.

Witnesses:

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