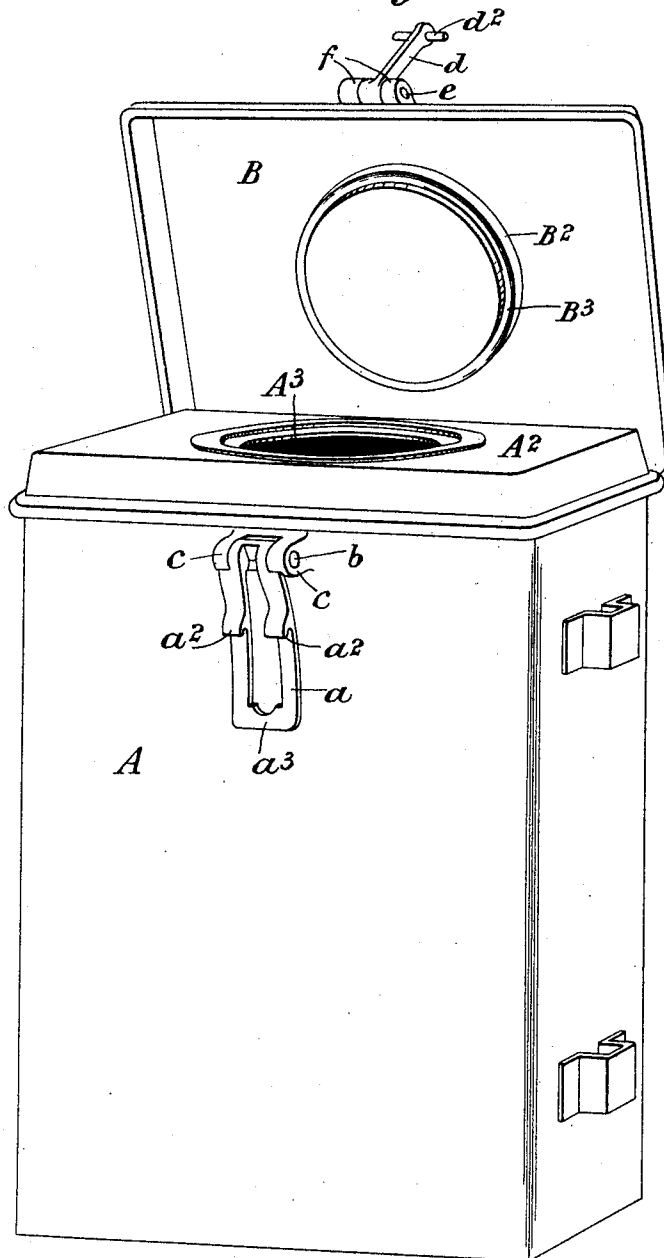


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FASTENING FOR BOXES AND OTHER ARTICLES.
APPLICATION FILED SEPT. 12, 1919.

1,406,090.

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2 SHEETS—SHEET 1.

Fig. 1.



INVENTOR
Augustus Wm. Schermuly
BY *Harmon and Harmon*
ATTORNEYS

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Fig. 2.

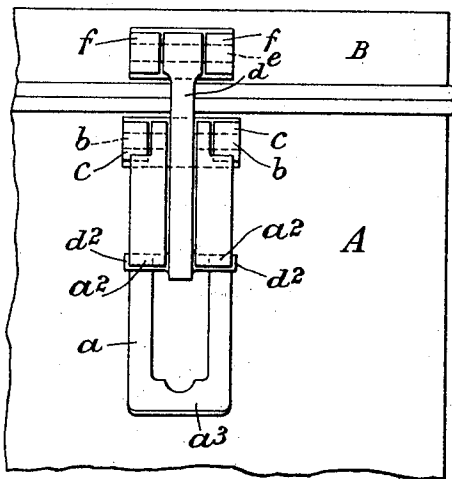


Fig. 3.

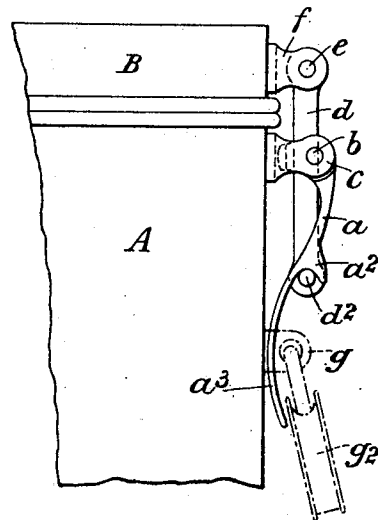
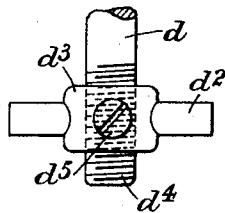


Fig. 4.



INVENTOR
Augustus W. Louis Schermuly
BY *Horner and Horner*
ATTORNEYS

UNITED STATES PATENT OFFICE.

AUGUSTUS WILLIAM LOUIS SCHERMULY, OF SUTTON, ENGLAND.

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Specification of Letters Patent.

Patented Feb. 7, 1922.

Application filed September 12, 1919. Serial No. 323,424.

(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that I, AUGUSTUS WILLIAM LOUIS SCHERMULY, a subject of the King of Great Britain, residing at Stonecroft, Stone Cot Hill, Sutton, in the county of Surrey, England, have invented new and useful improvements in Fastenings for Boxes and other Articles, (for which I have filed application in England Nov. 22, 1917, Patent No. 118,374,) of which the following is a specification.

The fastenings to which my invention relates are of the kind in which parts of the fastening respectively on the body part, and the lid of the box, or equivalent parts of other articles to be secured (such for example as the hatchways of ships) are engaged with each other and then, by a leveraging action, drawn tight and held in the closed, or securing, position.

My invention has for its object to provide a fastening of the aforesaid kind which is very simple in construction and operation and will enable very tight, or secure, closure of the box, or the like, to be effected with facility, the opening of the box, or the like, being also very readily effected. In describing my invention I will presume that my improved fastening is to be applied to a box which it is desired to close tightly by the lid bearing upon rubber, or other elastic material, between it and the body of the box and from this description its application to analogous purposes will also be understood.

According to my invention the fastening consists of a loop-shaped piece, hinged to the body of the box, and with undercuts, or hooks, in the two side members, of the loop, and of a bar-like piece, hinged at its upper end to the lid, of the box and adapted, when in its fastening position, to come between the side members of the loop-shaped piece, the said bar-like piece carrying a cross-piece which can be brought into engagement with the undercuts, or hooks, of the aforesaid loop-shaped piece.

The accompanying drawing represents a fastening constructed in accordance with my invention, applied to a box, but I do not limit myself to applying the fastening to securing the lid of a box, as it will be evident that the said fastening can be applied in other cases where a closure of an analogous kind is to be secured.

Figure 1 shows the box with the fastening undone and the lid raised and Figures 2 and 3 are elevations of part of the box (drawn to a larger scale) showing the lid closed and secured by the fastenings. Fig. 4 is a detail of a modified form of the cross head.

The loop-shaped piece *a* is hinged at *b* to projections *c* from the body *A* of the box the said piece *a* having undercuts, or hooks *a'* in its two side members. The bar-like piece *d* is hinged, at *e*, to projections *f* from the lid *B* of the box and carries, at its lower end, a cross-piece *d'*. This cross-piece can, if desired, be made adjustable by providing it with a screw-nut *d''* which will screw upon a screw-thread *d'''* at the end of the bar-like piece *d* and can be fixed in its adjusted position by the set-screw *d''''* as shown (drawn to a larger scale) in Figure 4.

To fasten the lid *B* in its closed position the loop-shaped piece *a* is raised and the bar-like piece *d* lowered so that the cross-piece *d'* of the said bar-like piece can be engaged with the undercuts, or hooks, *a'* (which I term hooks) in the two side members of the said loop-shaped piece *a* and then, by forcing down the said loop shaped piece the bar-like piece *d* is drawn down with considerable force and consequently the lid is tightly closed and, as the hinge-joint *c* of the loop-shaped piece *a* is outward of the hinge-joint of the bar-shaped piece (as illustrated in Figure 3), the said loop-shaped piece will, on being pressed towards the side of the box, pass the vertical plane in which its joint is situated and thus securely fasten the box lid.

The box is shown as having an inner top-piece *A*² with a hole *A*³ in it and the lid as having a circular projection *B*² carrying a rubber ring *B*³ to make a tight closure when the lid *B* is closed, but this of course is only an example and the invention is not in any way dependent on this.

If desired the body of the box can, (as shewn in dotted lines in Figure 3,) be provided with a staple, or eye-piece, *g* for a padlock *g*², the said staple, or eye-piece, being so situated that it will, when the loop-shaped piece *a* is in its lowered and fastening position, pass between, and project beyond, the side members of the said loop-shaped piece which is made long enough to

leave a space for the said staple, or eye-piece, below the lower end of the bar-like piece d^2 .

The lower end of the loop-shaped piece a can be provided with a ring, or the like, or be so formed, as illustrated at a^3 , for example, as to facilitate its being raised on opening the lid of the box, and the cross-piece d^2 of the bar-like piece d may, if it be desired to give a yielding action, have a covering of material, such as a tube, or tubes, of rubber.

What I claim is:—

1. A fastening for box lids or the like, consisting of a loop-shaped piece, hinged to the body of the box and provided with hooks, in the side members of the loop and of a bar-like piece hinged to the other of the parts to be fastened together and adapted, when in its closed position, to come between the side members of the loop-shaped piece, the lower end of the said bar-like piece being provided with a cross-piece which can be brought into engagement with the hooks of the said loop-shaped piece.

2. A device of the type specified in claim 1, in combination with an eye secured to the box beyond the range of the lower part of the bar-like piece and projecting through the end portion of the loop-shaped piece, when in the closed position as hereinbefore explained.

3. A fastening device of the character described, comprising a T-bar pivoted to one member, a cooperating pivoted U-bar pivoted to a cooperating member and between the legs of which said T-bar lies in locking position, together with hooks on the legs of the U-bar engaging the cross piece of the T-bar and moving the latter over center with relation to the pivot of the U-bar in locking position.

4. A fastening device of the character described, comprising a pivoted T-bar, a cooperating pivoted U-bar between the legs of which said T-bar lies in locking position, together with hooks on the legs of the U-bar engaging the cross piece of the T-bar and moving the latter over center with relation to the pivot of the U-bar in locking position, in combination with an eye located to pass between the legs of the U-bar adjacent the connecting strap at the free end of the latter in locking position and serving to receive the shackle of a padlock or the like to secure the parts in locked relationship.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AUGUSTUS WILLIAM LOUIS SCHERMULY.

Witnesses:

EDWD. GEO. DAVIES,
ALBERT DAVIES.