

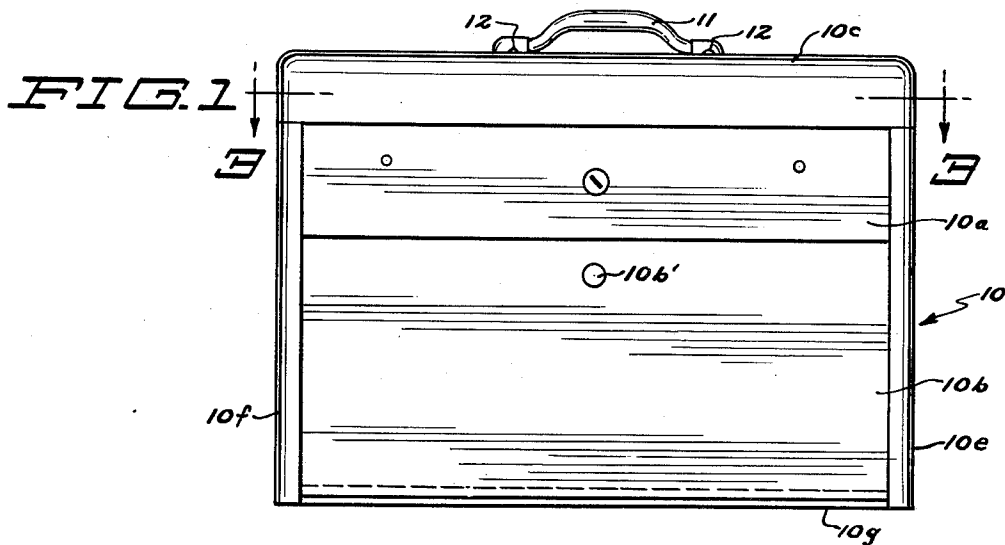
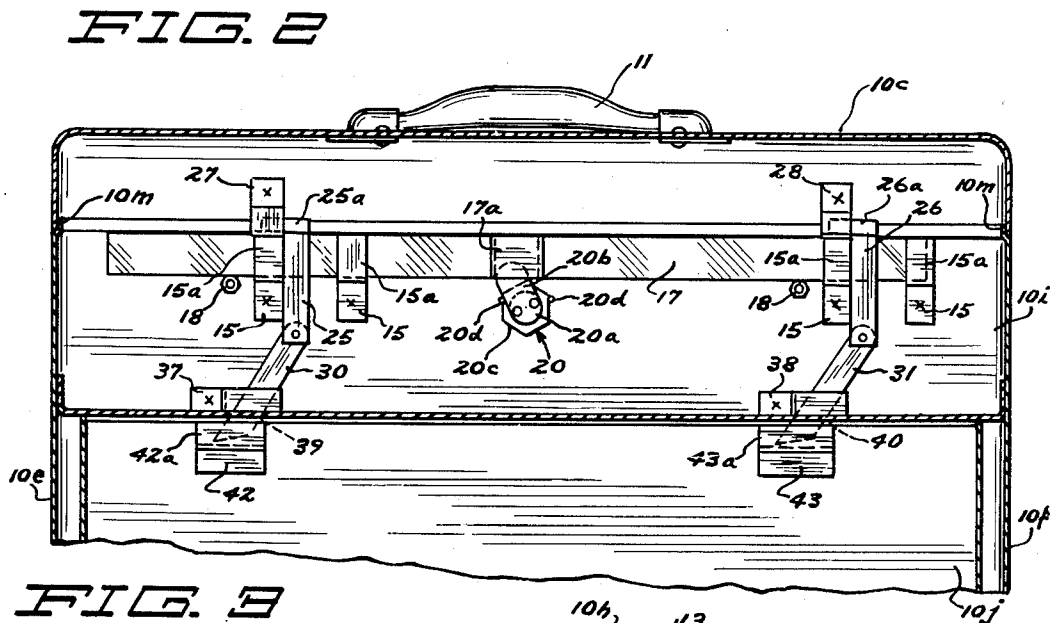
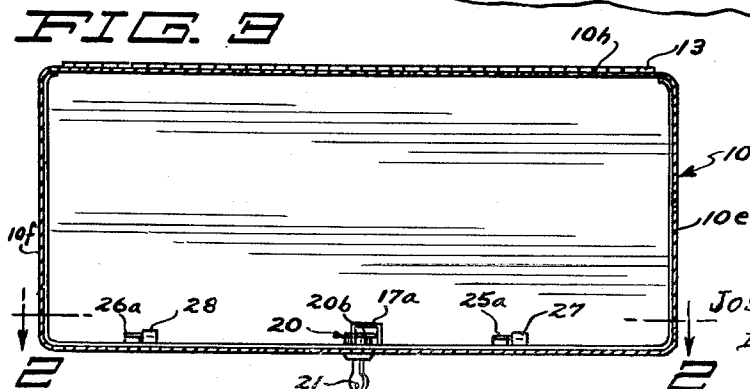
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H. E. HUOT ET AL
DOUBLE LOCK FOR CABINET

2,729,088

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2 Sheets-Sheet 1



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FIG. 4

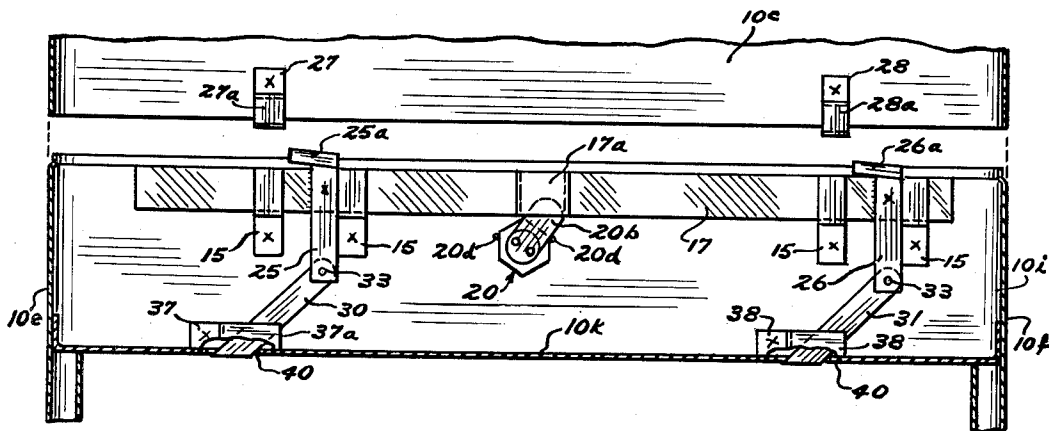
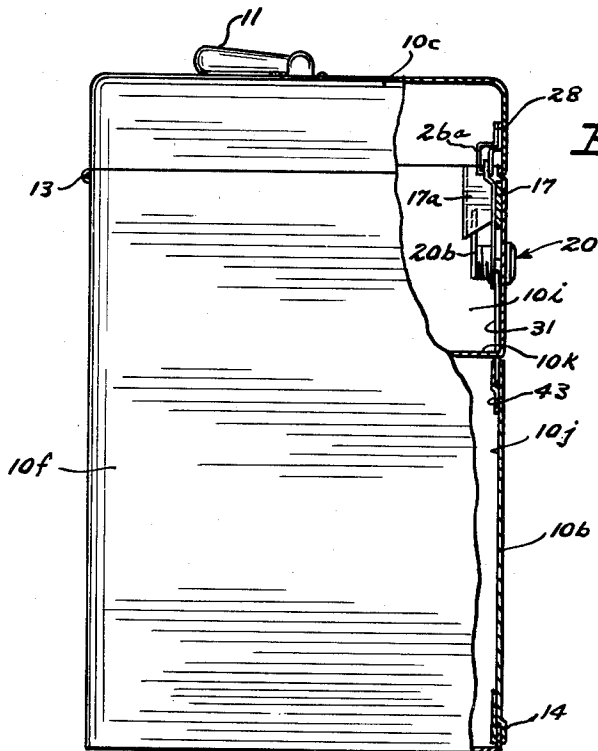


FIG. 5

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DOUBLE LOCK FOR CABINET

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4 Claims. (Cl. 70—63)

This invention relates to an improvement in a locking device and particularly in one to be used in connection with a casing having a plurality of covers whereby said covers may be locked or unlocked by means of a single simple operation.

It is an object of this invention to provide a locking device to be used in connection with a casing having a plurality of covers comprising a simple mechanism for engaging and disengaging from said covers simultaneously in one simple operation.

It is another object of this invention to provide a locking device to be used in connection with a casing having a plurality of covers having in combination, a member movably secured to one side of said casing and having members pivotally secured thereto adapted to respectively engage members secured to each of said covers, and means for moving said bar whereby said last mentioned members may be engaged by and disengaged from said bar in one simple operation.

It is also an object of this invention to provide a locking device to be used in connection with a casing having a plurality of covers having in combination, a member movably secured to one side of said casing and having members pivotally secured thereto adapted to respectively engage members secured to each of said covers, a lock secured in said casing adjacent said first mentioned member, a movable member in said lock for engaging said first mentioned member and a key for operating said lock and turning said movable member whereby when said bar is moved, said last mentioned member may be engaged and disengaged by the simple turning of said key in said lock.

It is still another object of this invention to provide a locking device to be used in connection with a casing having a plurality of chambers, each of said chambers having a hinged cover therein having in combination, a bar movably secured to a side of said casing in one of said chambers, spaced members secured to said bar forming latch members, members secured to said cover in said chamber to be respectively engaged by said latch members, a second pair of latch members pivotally secured to said first mentioned latch members and depending therefrom, said chamber having openings in the bottom thereof adjacent said side, members for guiding said last mentioned latch members into said openings, said other cover having members secured thereto in alignment with said openings forming keepers and adapted to be respectively engaged by said last mentioned latch members whereby when said bar is moved to one position said covers are engaged and are in locked position and when said bar is moved to another position said covers are disengaged and in unlocked position.

These and other objects and advantages of the invention will be fully set forth in the following description made in connection with the accompanying drawings in which like reference characters refer to similar parts throughout the several views and in which:

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Fig. 1 is a view of applicant's device in front elevation;

Fig. 2 is a view taken on line 2—2 of Fig. 3 as indicated by the arrows showing applicant's device in locked position;

Fig. 3 is a view taken on line 3—3 of Fig. 1, as indicated by the arrows;

Fig. 4 is a view similar to the view shown in Fig. 2 and showing applicant's device in unlocked position; and

Fig. 5 is a view in end elevation with a portion broken away and some portions shown in vertical section.

Referring to the drawings, a casing 10 is shown. While this casing might be made in various forms, in the embodiment of the invention here illustrated, said casing is shown to be generally parallelepiped in form having a front wall 10a, a front cover 10b, a top cover 10c, sides 10e and 10f, a bottom 10g and a back wall 10h. Said cover 10b has a handle 10b'. An offset portion 10m is provided about the upper side and front edge portions of member 10 to provide a stop for cover 10c and to enable the wall 10a and the front of cover 10c to be in flush position when said cover 10c is closed. Said member 10 is here shown to have chambers 10i and 10j. Said chamber 10i has a bottom 10k therein. Said casing 10 is provided with a handle 11 which is secured to said upper cover 10c by rivets 12. Said cover 10c is hingedly secured to casing 10 by a hinge 13. Cover 10b is hingedly secured to casing 10 by a hinge 14. Said casing 10 may be made of any suitable material and preferably may be made of sheet metal material. Secured to the upper portion of side 10a are guide members 15 which have a lower portion secured to said side as by welding, and have upper offset portions 15a forming guides. Said members 15 are disposed in spaced pairs adjacent either end portion of side 10a. Disposed in said guide portions 15a and movable therein is a bar 17. Said bar is disclosed here as being made of sheet material generally rectangular in cross section and extending for the greater length of said side 10a. Spaced members 18 are secured to side 10a to form a lower edge support and guide for said member 17. Said members 18 are here shown to be nutted bolts secured to said side 10a. Said bar 17 has a member 17a secured to the mid-portion thereof being U-shaped in horizontal section and forming a keeper. A lock 20 is provided. Said lock is secured to the mid-portion of said side 10a and is disposed slightly below the lower edge portion of said bar 17. Said lock 20 has a revolving barrel 20a disposed therein, and secured to the inner end portion of said barrel 20a is a cam 20b. Said cam is rigidly secured to said barrel. Said lock is held in position on said side 10a by a lock nut 20c. Said lock nut 20c has small spaced lugs 20d secured thereto to limit the rotatable movement of said cam 20b. Said cam 20b is adapted to be disposed in said keeper 17a.

Secured to said member 17 are spaced members 25 and 26. Said members 25 and 26 may be secured to member 17 in any suitable manner, such as by welding. Said members 25 and 26 respectively have right-angled upper end portions 25a and 26a. Thus members 25 and 26 form latch members. Secured to cover 10c are members 27 and 28. Said members 27 and 28 have lower end portions forming loops 27a and 28a and said loops are generally rectangular in vertical section and may be made of any suitable material, such as straps of sheet metal. When said cover 10c is in closed position, said members 27a and 28a are disposed on the inner upper edge portion of said side 10a. Said members 25a and 26a are adapted respectively to be disposed in said members 27a and 28a. Said members 15 serve to limit the longitudinal movement of said bar 17.

Pivotally secured to the lower end portions of members 25 and 26 respectively are members 30 and 31. Said

members 30 and 31 are secured to said members 25 and 26 respectively by pivots 33. Said members 30 and 31 form latch members, being linked with latch members 25 and 26 and are operable therewith.

Secured to wall 10i adjacent the bottom 10k are members 37 and 38 having offset portions 37a and 38a respectively forming guides. In alignment with said members 37 and 38 and disposed through said bottom 10k are slotted openings 39 and 40.

Secured to the upper edge portion of cover 10b and in alignment with openings 39 and 40 are members 42 and 43. Members 42 and 43 respectively have upper offset portions 42a and 43a. Said members 42 and 43 may be secured to said cover 10b in any suitable manner, as by welding.

In the operation of applicant's device, the member 17 will be moved endwise by turning key 21 in lock 20. In the embodiment of the invention here illustrated, said key is turned clockwise, said bar 17 will move to the right of said casing 10 and latch members 25a and 26a will become disengaged from the keepers 27 and 28. Thus the cover 10c is unlocked and may be lifted upwardly. As part of the same operation above described, when said bar 17 is moved to the right, latch members 30 and 31 will be drawn upwardly through slots 39 and 40 and will be disengaged from keepers 42 and 43. Thus cover 10b will become unlocked and may be opened outwardly. The longitudinal movement of bar 17 is limited by the spaced members 15 and also the lugs 20d on lock nut 20c. Said member 17 moves in channels formed by portions 15a of said members 15 and is also supported by guide members 18.

When it is desired to lock casing 10, said covers 10c and 10b will be placed in closed position and the key 21 will be turned counter-clockwise. As key 21 is turned, the revolving barrel 20a and the cam 20b will be turned. Said cam engages keeper 17a and thus moves member 17 to the left. Latch members 25a and 26a will then engage keepers 27 and 28. Simultaneously with the above operation, the link latch members 30 and 31 will be guided by members 37 and 38 through openings 39 and 40 and into keepers 42 and 43. Thus the cover 10c is locked against upward movement and the cover 10b is locked against any outward movement.

Thus it is seen that I have provided a locking device of very simple and efficient construction which is adapted to lock or unlock a plurality of covers in a casing with said covers opening in different planes. Applicant's device has been fully tested in operation and has proved to be very successful.

What is claimed is:

1. A locking device for use in connection with a casing having a pair of covers and spaced sides having in combination, a bar adapted to be movably secured to a side of said casing for movement longitudinally thereof, means for moving said bar longitudinally, a pair of spaced latch members secured to said bar, spaced keepers adapted to be secured to one of said covers to be respectively engaged by said latch members, a second pair of latch members respectively secured to said first pair of latch members and pivotally connected thereto, guide members adapted to be secured to said side for guiding said last mentioned latch members, spaced keepers adapted to be secured to said other cover to be respectively engaged by said last mentioned latch members.

2. A locking device for use in connection with a casing having a pair of hinged covers and spaced sides having in combination, a bar adapted to be movably secured to a side of said casing for movement longitudinally thereof, means for moving said bar longitudinally, guide members for said bar, a pair of spaced rigid latch members secured

to said bar transversely thereof, spaced keepers on one of said covers adapted to be respectively engaged by said latch members, a pair of spaced latch members respectively secured to said first mentioned latch members and being pivotally secured thereto, means for guiding said last mentioned guide members, means on said other cover for engaging said last mentioned latch members.

3. In a casing generally parallelepiped in form having spaced sides and having hinged covers thereon, a locking device for said covers and having in combination, a bar movably secured to one of said sides of said casing, means for reciprocating said bar and for holding the same in locked position, means secured to said side for guiding and limiting the movement of said bar, a pair of spaced parallel members forming latch members secured to said bar transversely thereof and having substantially right angled upper end portions, a pair of spaced members forming keepers secured to one of said covers to be respectively engaged by said upper end portions, a pair of members forming latch members respectively pivotally secured to said first mentioned latch members and depending therefrom, a pair of spaced members forming keepers secured to said other cover to be respectively engaged by said last mentioned latch members and a pair of members for guiding said last mentioned latch members into said last mentioned keepers whereby said keepers are respectively engaged by said latch members when said bar is in one position and said members are disengaged from said keepers when said bar is moved to another position.

4. A locking device for use in a casing generally parallelepiped in form having spaced sides and having a pair of chambers therein and each of said chambers having a hinged cover thereon having in combination, a bar adapted to be secured to one of said sides in one of said chambers for reciprocating movement, means for moving said bar, means adapted to be secured to said side to guide and limit the movement of said bar, spaced parallel members forming latch members secured to said bar transversely thereof, said members respectively having substantially right-angled upper end portions extending upwardly of said bar, spaced members forming keepers adapted to be secured to said cover in said chamber to be respectively engaged by said right-angled portions, a pair of members forming latch members respectively pivotally secured to said last mentioned latch members, the bottom of said side in said chamber having a pair of slots respectively in offset position to said last mentioned latch members, a pair of members adapted to guide said last mentioned latch members in and out of said slots, a pair of members adapted to be mounted on said other cover in alignment with said slots forming keepers which are adapted to be respectively engaged by said last mentioned latch members whereby said covers are in locked position when said bar is in one position and said covers are in unlocked position when said bar is in another position.

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