May 8, 1928. 1,669,312

J. V. SUNDQUIST

STAPLE OR THE LIKE

Filed Dec. 10. 1926

Fig. 1.

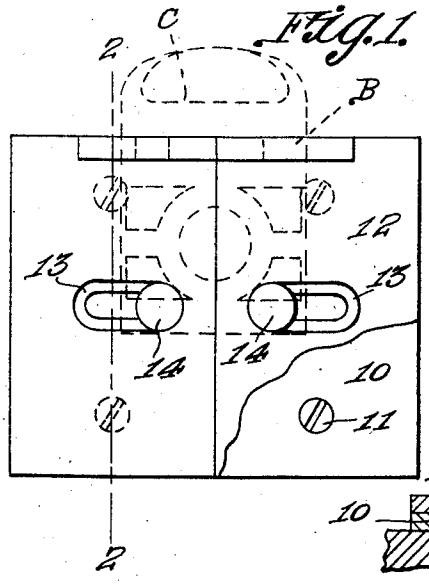


Fig. 2.

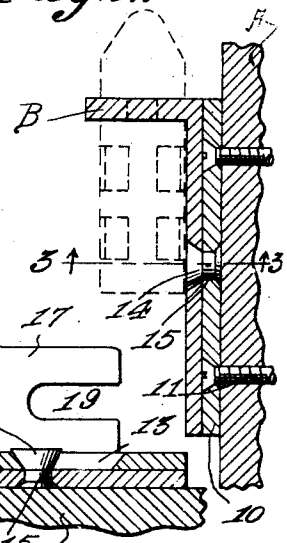


Fig. 3.

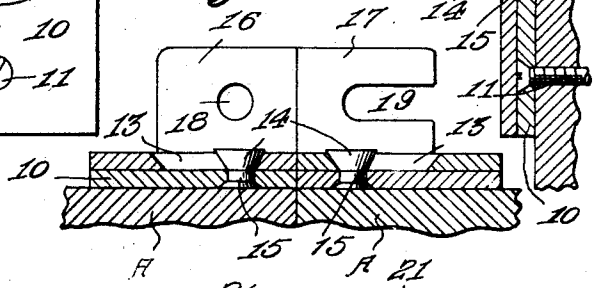


Fig. 4.

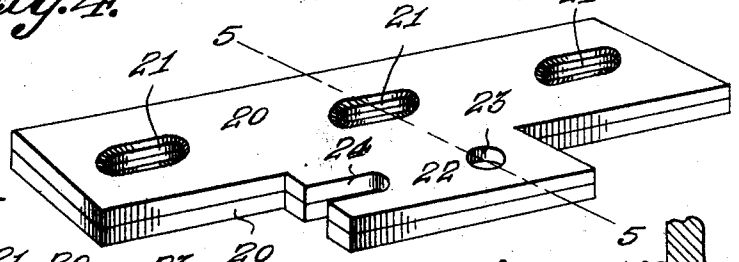


Fig. 5.



Fig. 6.



Fig. 8.

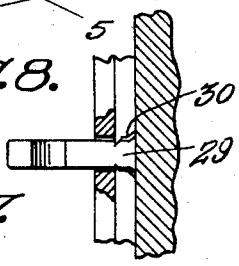
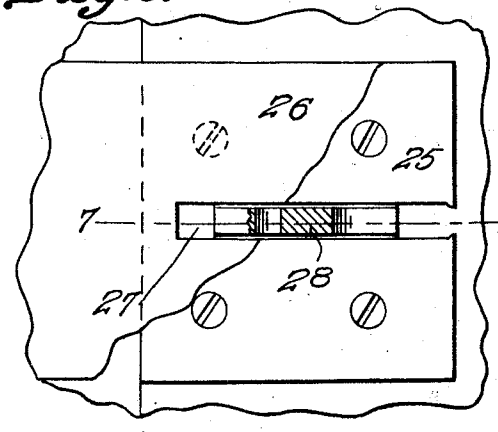
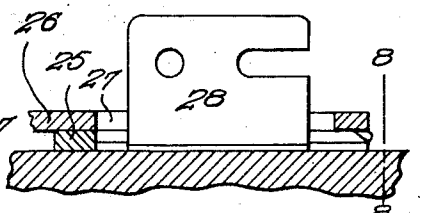


Fig. 7.





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Patented May 8, 1928. 1,669,312

UNITED STATES PATENT OFFICE.

JOHN V. SUNDQUIST, OF NORWOOD, MASSACHUSETTS.

STAPLE OR THE LIKE.

Application filed December 10, 1926. Serial No. 153,969.

This invention relates to the broad class of builder's hardware and has for its object the provision of a novel staple which may be adjustably mounted so as to be brought into the proper position to facilitate the proper engagement of the shackle of a padlock therewith for the purpose of effecting securing regardless of whether the elements such as doors, either of the folding or sliding type, covers or the like may have sagged, warped, shrunk or otherwise become distorted so that placement of the lock in position under ordinary circumstances would be extremely difficult.

An important object is the provision of a structure of this character which, if applied to sliding doors, or folding doors either for that matter, may be slid together even though the structure to which the device is applied may have shrunk to a very great extent.

Another object is to provide staple devices adapted to be mounted in horizontal position as for instance upon a chest and its closure, these staple devices being adjustably mounted to bring the padlock shackle receiving holes into registration.

An additional object is to provide a structure of this character which will be simple and inexpensive in manufacture, easy to apply and use, positive in action, efficient and durable in service, and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the details of construction, and the arrangement and combination of elements to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which:—

Figure 1 is an elevation of a pair of the adjustable staple members for use upon doors and showing, in dotted line, the padlock engaged therewith,

Figure 2 is a vertical cross section taken on the line 2—2 of Figure 1,

Figure 3 is a horizontal section taken on the line 3—3 of Figure 2, and looking in the direction of the arrow,

Figure 4 is a perspective view of a pair of staple elements used in connection with chests with vertically swinging closures or the like,

Figure 5 is a cross sectional view taken on the line 5—5 of Figure 4,

Figure 6 is an elevation of a horizontally slidable adjustable staple structure, partly broken away and in section,

Figure 7 is a sectional view on the line 7—7 of Figure 6, and

Figure 8 is a sectional view on the line 8—8 of Figure 7.

Referring more particularly to the drawings, and especially Figures 1 to 3 inclusive, the letter A designates the adjacent portions of a pair of sliding doors or the like to which are secured, in accordance with my invention, fixed plates 10, securing being effected as by means of suitable screws 11 or the like. Slidably mounted upon these plates and preferably coextensive in size therewith, are the adjustable staple members 12 formed with countersunk elongated slots 13 slidably engaging upon the heads 14 of rivets 15 carried by and projecting forwardly from the rigid plates 10. The adjustable staple members 12 are formed with lateral extensions or elements 16 and 17, the former being formed with a circular hole 18 and the latter formed with an elongated slot 19 opening out to the far end or edge. The hole 18 and slot 19 are intended for the reception of the shackle B of a padlock C of suitable type.

In the use of this form of the device, it will be readily apparent that even though the doors sag or shrink or become warped so that they cannot be brought properly together, the adjustability of the members 12 will permit the edges thereof to be brought into registration so that the shackle of the padlock may be readily engaged through the hole 18 and slot 19 as indicated in Figure 1 without any difficulty whatsoever.

In Figures 4 and 5 I have illustrated a different type of structure intended for use in connection with chests or the like and their closures. Referring to these figures in detail, it will be apparent that I have disclosed two similar elongated plate members 20 both formed with elongated slots 21 arranged at intervals and intended for the passage of suitable securing screws whereby one staple member may be secured to a closure or cover and the other secured to the edge of a chest, box or other device equipped with the cover. Obviously, it is preferable to have the slots 21 countersunk at the meeting faces of the staple members as indicated in Figure 5 so as to accommodate the heads of whatever securing screws are provided. Both plate members 20 are

formed at one side with lateral extensions 22 which are intended to project beyond the edge of the chest or box and the closure or cover, both plate members being formed at one end portion with a circular hole 23 and at the other end portion with an elongated slot 24 opening out to the end.

In the operation of this form of the device, it will be readily apparent that if the condition of the closure or cover with respect to the chest, box or other article becomes such that the staple members are not normally in registration, the provision of the slots 21 will enable them to be adjusted, one with respect to the other so as to bring the holes 23 and the slots 24 into registration for the accommodation of the shackle of the padlock employed.

In Figures 6, 7 and 8, I have illustrated a different type of device in which there is disclosed one plate member 25 adapted to be secured to one of two relatively movable objects, this plate element being engaged by a second plate element 26 secured to the other of the relatively movable objects. The plate member 26 is formed with an elongated slot 27 through which projects a staple element 28 having a dove-tailed end portion 29 sildably mounted within a suitably shaped groove 30 in the plate member 25. Obviously, in case of warping, shrinking, sagging or the like, the member 28 may be slid along to bring it into the proper position with respect to a fixed hasp member, not shown, for accommodating the shackle of the padlock.

From the foregoing description and a study of the drawings, it will be readily apparent that I have thus provided ample and adequate means whereby adjustment of staples may be readily effected to take care of conditions which may be unforeseen at the present time but which may arise in the future. It is really believed that the construction, operation and advantages will be readily apparent to one skilled in the art without further explanation.

While I have shown and described the preferred embodiment of the invention, it should be understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claims.

Having thus described the invention, I claim:

1. In an adjustable staple structure for cooperation with a padlock, relatively fixed plates adapted to be secured upon coacting slidably mounted closure elements, other plates slidably mounted upon the first named plates and adjustable toward or from each other, and lateral extensions on said second named plates, one extension having a circular hole therein and the other being provided with a slot opening out to the far end, the hole and the slot being adapted to accommodate the shackle of a padlock.

2. In an adjustable staple structure for cooperation with a padlock, relatively fixed plates adapted to be secured upon coacting closure elements, other plates slidably mounted upon the face of the first named plate and adjustable toward or from each other, and lateral extensions on said second named plates, one extension having a circular hole therein and the other being provided with a slot opening out to the far end, the hole and the slot being adapted to accommodate the shackle of a padlock, the slidable connection consisting of headed rivets projecting outwardly from the face of the fixed plates and engaging within countersunk slots through the adjustable plates.

In testimony whereof I affix my signature.

JOHN V. SUNDQUIST.