J. S. ISIDOR.

TRUNK FASTENER.

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1,229,962.

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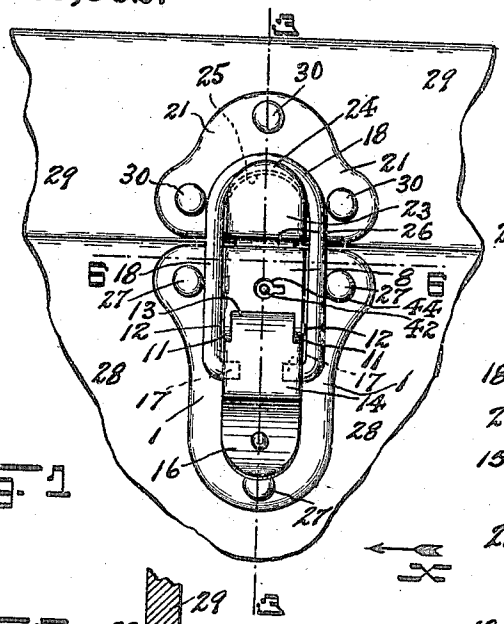


Fig. 1

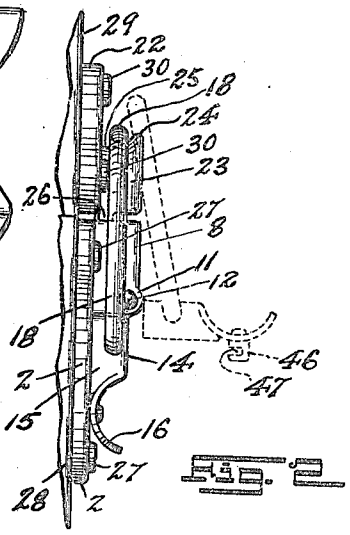


Fig. 2

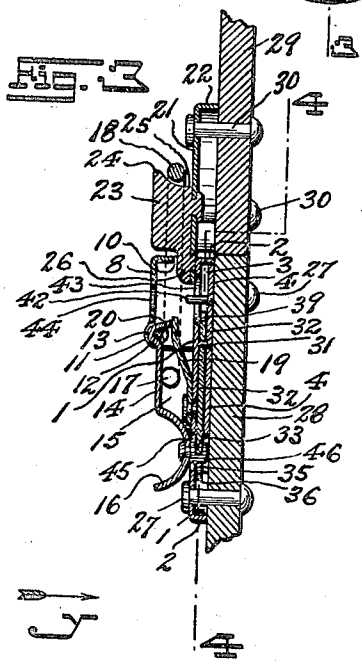


Fig. 3

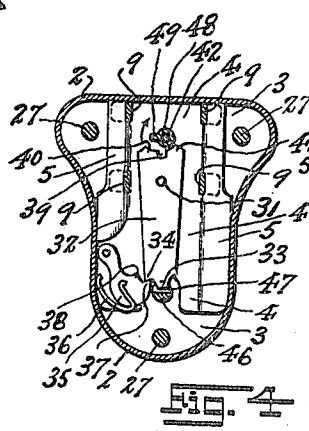


Fig. 4

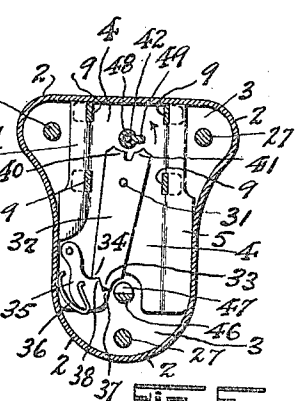


Fig. 5

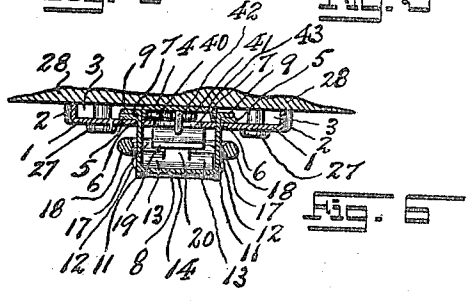


Fig. 6

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TRUNK-FASTENER.

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To all whom it may concern:

Be it known that I, JOSEPH S. ISIDOR, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Trunk-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention has reference, generally, to improvements in the construction of fastening catches for trunks, chests, suit-cases and other similar articles; and the invention relates, more particularly, to a novel construction of hasp-catch or holding device provided with a key-controlled mechanism for locking the hasp-portion in its operative holding or catching position.

The invention has for its principal object to provide a simply constructed, neat appearing and easily operated hasp-catch, having combined therewith a novel key-controlled locking mechanism adapted to engage the lever-means, which controls the movements of the hasp, whereby said lever-means is immovably secured against manipulation to prevent the operation of the hasp.

Other objects of the present invention, not at this time more particularly enumerated, will be clearly understood from the following detailed description of the same.

With the various objects of my present invention in view, the same consists, primarily, in the novel construction of fastening device hereinafter set forth; and the invention consists, furthermore, in the novel arrangements and combinations of the several devices and parts, as well as in the details of the construction of the same, all of which will be hereinafter more fully described, and then finally embodied in the claims appended hereto.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a face view of the novel construction of fastening device, made according to and embodying the principles of my present invention.

Fig. 2 is a side edge view of the same.

Fig. 3 is a vertical longitudinal section of the same, taken on line 3—3 in said Fig. 1, looking in the direction of the arrow *x*.

Fig. 4 is a detail transverse section of the same, taken on line 4—4 in said Fig. 3, looking in the direction of the arrow *y*, said view illustrating the locking mechanism operated, or in locking position; and Fig. 5 is a similar view, but illustrating the locking mechanism released, or in unlocked position.

Fig. 6 is a horizontal section, taken on line 6—6 in Fig. 1, looking downward.

Similar characters of reference are employed in all of the hereinabove described views to indicate corresponding parts.

Referring now to the said drawings, the reference-character 1 indicates a main shell or body provided with a rearwardly extending marginal flange 2 bounding its periphery, and inclosing an interior chamber or space 3. Arranged within said chamber or space 3 is a back-plate 4, having inwardly off-set flanges 5 at its sides, which are engaged against the inner side of said main shell or body 1, so as to slightly space said back-plate away from the latter.

Said main shell or body 1 is provided in its face with a plurality of properly disposed openings 6, and said back-plate 4 is, in like manner, provided with similar openings 7, which are registered with said openings 6 of said main shell or body 1. The reference-character 8 indicates a bolt-receiving shell which is provided with suitable clenching lugs 9, extending rearwardly therefrom, and which are inserted through the registered openings 6 and 7, and then turned or clenched over the rear surface of the flanges 5 of said back-plate 4, thus serving not only to secure said bolt-receiving shell 8 to said main shell or body, but also serving to secure the back-plate 4 in proper assembled relation with the latter. As thus secured, said bolt-receiving shell is positioned at the upper end of said main body or shell 1, and is provided in its upper end with a bolt-receiving opening 10. The lower end of said bolt-receiving shell is open, so that its sides may be formed to provide ears 11, to which is secured, so as to extend between the same, a hinge-pin 12. Pivotally engaged upon said hinge-pin 12, by means of its journal-portion 13, is a lever-member 14 provided at its upper end with side-flanges 15. The lower end of said lever-member 14 is formed

to provide a finger-piece 16. Journaled in openings provided in the side-flanges 15 of said lever-member 14 are the journal-portions 17 of a pivoted loop or hasp-member 18, which is adapted to embrace said bolt-receiving shell and extend above the same. Riveted, or otherwise secured, to said main body or shell 1, beneath said lever-member 14, and positioned so that its free end extends upwardly beneath the journal-portion 17 of the latter, is a spring-tongue 19. Formed out of said journal-portion 17 is a rearwardly extending lug 20, the free end of which normally engages said spring-tongue 19 beyond the pivotal center of said lever-member, whereby the tension of said spring-tongue exercises a pressure upon said lug 20 and through the same upon said lever-member 14, to maintain the same against accidental outward swinging movement. Upon applying a lifting pressure upon said lever-member 14, however, said lug 20 is caused to press against the spring-tongue causing the latter to yield to its passage or movement over the same as it swings downwardly and as the lever-member swings outwardly on its hinge-pin.

The reference-character 21 indicates an upper shell or body provided with a rearwardly extending marginal flange 22 bounding its periphery. Riveted, or otherwise secured, upon the face of said upper shell or body 21 is a catch-member 23 having at its upper end a catch-lip 24, back of which is a receiving depression 25, and having at its lower end a downwardly extending bolt-portion 26.

As illustrative of the use of my novel fastening catch, I will describe the same as applied to a trunk, or similar article. When so used, the main body or shell 1 is secured, by means of rivets 27, or other suitable fastening means, to the body 28 of the trunk, adjacent to the margin of its body when engaged by the lid or top 29 of the trunk, and the said upper shell or body 21 is secured, by means of rivets 30, or other suitable fastening means, to the valance or front flange of said lid or top 29, in such a position that when the lid or top is closed, said shell or body 21 will be alined vertically with said shell or body 1 and the bolt-portion 26 will enter the bolt-receiving opening 10 above described. By swinging upwardly the lever-member 14, the loop or hasp-member 18, secured thereto, is given an upward vertical movement, which lifts its upper end so that the same may be swung over said catch-member 23. Then by pushing down the lever-member 14, back to normal position, said loop or hasp-member 18 is given a downward movement which carries its upper end down into said receiving depression 25 behind said catch-lip 24, the latter preventing said loop or hasp-member from being swung away from such engaged position over said catch-member 23. Thus the hasp-member not only retains said lid or top 29 against any opening movement, but also retains said bolt-portion 26 engaged in the bolt-receiving opening 10 of said bolt-receiving shell 8 affixed to said main shell or body 1.

As above stated, it is the principal object of my invention to provide, in connection with a catch or fastening device of the character above described, a key-controlled means for locking the same against manipulation. To this end, I provide the back-plate 4 upon which to mount a locking mechanism within said main shell or body 1. Secured to said back-plate 4, so as to extend into the space between the same and said main body or shell 1, is a pivot-stud 31 upon which is pivoted a locking-tumbler 32. The lower end of said locking-tumbler 32 is formed to provide a latch-piece 33, and off-set to one side and slightly above said latch-piece 33 is a stop-nosing 34. Pivoted upon said back-plate 4, to one side of the lower end of said locking-tumbler 32, is a yieldable stop-pawl 35, the same being provided with a spring-means 36 for pressing the same normally into contact with said stop-nosing 34 of said locking-tumbler 32. Said stop-pawl 35 is provided with an outer stop-nosing 37 and an inner stop-nosing 38, each adapted, under proper circumstances, to engage with said stop-nosing 34 of said locking-tumbler, to hold the same in either one or the other of its operated positions. Formed in the upper end of said locking-tumbler 32 is a notch 39 which bifurcates said upper end to form key-engageable portions 40 and 41. Secured to said back-plate 4, above said locking-tumbler, is a key-post 42, which projects outwardly through a suitably disposed opening 43 formed in said main body or shell 1. Said bolt-receiving shell 8 is provided with a key-hole or opening 44 which is properly centered over said key-post 42. Secured to said finger-piece 16 of said lever-member 14, so as to extend rearwardly therefrom, and through an opening 45 in said main body or shell 1 is a latch-stud 46, which, when said lever-member is in normal closed position, enters said space in which is located said locking-tumbler 32. Said latch-stud 46 is provided with a transverse receiving-slot or cross-cut 47. The reference-character 48 indicates a key-stem or barrel which has been inserted through the key-hole opening 44, so as to be fulcrumed on said key-centering post or fulcrum-stud 42. Said key-stem or barrel is provided with a bit 49, which, when the key is turned in the direction indicated by the arrow in Fig. 4 of the drawings, enters the notch 39 and engages the portion 40 of the locking-tumbler 32, and in so doing oscillates the latter on its pivot so as to swing its latch-piece 33 into the receiving

slot or cross-cut 47 of the latch-stud 46, thus holding the latter so that the lever-member 14, to which it is attached, cannot be moved or swung on its hinge, and thus locking the catch-device against manipulation. When it is desired to release the locking mechanism to free the lever-member 14 for normal manipulation, the key-stem or barrel is turned in the opposite direction, that is in the direction indicated by the arrow in Fig. 5 of the drawings, thus causing the bit 49 to enter the notch 39 and engage the portion 41 of the locking-tumbler, and in so doing oscillating the latter on its pivot so as to swing the latch-piece 33 out of the receiving-slot or cross-cut 47 of the latch-stud 46, thus freeing the same, so that it offers no resistance to the manipulation of said lever-member 14.

When the locking-tumbler 32 is moved to locking position its stop-nosing 34 is engaged by said outer stop-nosing 37 of the yieldable stop-pawl 35, and is thereby held against any tendency to move out of proper locking position, but when the locking tumbler 32 is oscillated to unlocked position, its stop-nosing 34 rides over the inner stop-nosing 38 of said stop-pawl 35, the latter yielding under its spring-pressed tension to this movement, until said inner stop-nosing is passed, and the stop-pawl 35 is pressed by its spring to hold said inner stop-nosing 38 in engagement with the inner side of said stop-nosing 34, thus holding said locking-tumbler in its unlocked position and against any tendency to accidentally move into locking position.

I am aware that some changes may be made in the general arrangements and combinations of the devices and parts, as well as in the details of the construction of the same, without departing from the scope of my present invention as defined in the claims appended hereto. Hence, I do not limit my invention to the exact arrangements and combinations of the various devices and parts as set forth in the foregoing specification, nor do I confine myself to the exact details of the construction of said parts as illustrated in the accompanying drawings.

I claim:—

1. A fastening catch comprising an upper section and a lower section, a catch-member on said upper section, a lever-member pivoted to said lower section, a hasp-member pivoted to said lever-member and controlled by the latter to position the same for engagement or disengagement relative to said catch-member, a key-controlled lock-mechanism associated with said lower section, comprising a pivoted-locking tumbler, a key-post above said locking-tumbler, means on the upper end of said locking-tumbler engageable by the bit of a key to throw said locking-tumbler into either operative or released position, and means connected with said lever-member adapted to be engaged by the lower end of said locking-tumbler to prevent manipulation of said lever-member, combined with a spring-pressed yieldable stop-pawl having a pair of stop-nosings thereon, and a stop-nosing on said locking-tumbler adapted to be engaged by one or the other of said stop-nosings of said stop-pawl to hold said locking-tumbler in either locked or released position.

2. A fastening catch comprising an upper section and a lower section, a catch-member on said upper section, a lever-member pivoted to said lower section, a hasp-member pivoted to said lever-member and controlled by the latter to position the same for engagement or disengagement relative to said catch-member, a key-controlled lock-mechanism associated with said lower section, comprising a pivoted locking-tumbler, a key-post above said locking-tumbler, a pair of key-engageable projections on the upper end of said locking-tumbler for oscillating the latter, a latch-piece on the lower end of said locking-tumbler, a latch-stud having a receiving slot connected with said lower member, the receiving slot of said latch-stud being adapted to receive said latch-piece of said locking-tumbler to prevent manipulation of said lever-member, a spring-pressed yieldable stop-pawl having a pair of stop-nosings thereon, and a stop-nosing on said locking-tumbler adapted to be engaged by one or the other of said stop-nosings of said stop-pawl to hold said locking-tumbler in either locked or released position.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 9th day of January, 1917.

JOSEPH S. ISIDOR.

Witnesses:

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FREDK. H. W. FRAENTZEL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."