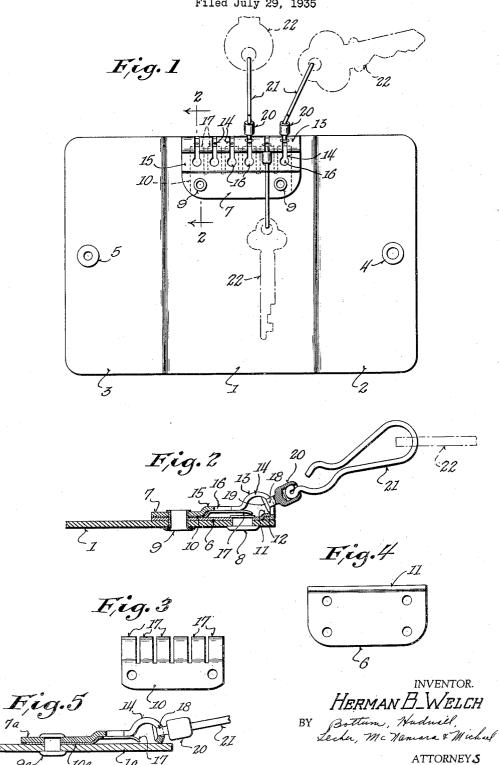
KEY CASE

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KEY CASE

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This invention relates to key cases.

The general purpose and object of my invention is to provide an improved key holding means for releasably securing the individual keys in the case.

A further object of my invention is to provide the key holder which is secured in the case with means whereby the several key attaching members may be independently applied to and be 10 released from the holder without releasing or disturbing the connection of the other members with the holder.

A further object of my invention is to provide the means aforesaid in the form of key-hole slots 15 in the holder and resilient tongues normally closing the entrance ends of the slots, said tongues being flexed independently by the members on applying the members to and releasing them from the slots.

A further object of the invention is to provide the key attaching members in the form of rigid elements whereby the latter may be not only readily and easily grasped, but may be readily and easily pressed against the tongues to flex them on applying a key attaching member to and releasing it from the holder.

A further object of the invention is to provide the holder in the form of a plate secured to the body of the case and provided at the slots with 30 an outwardly bulged or offset portion whereby the key attaching members and attached keys may be swung into and out of the case from pendant positions with respect to said bulged portion.

35 A further object of the invention is to provide the key attaching members with headed inner ends for releasable and swingable connection with the slots of the holder and with socketed outer ends to provide swivel mountings for the 40 key securing devices.

A further object of the invention is to construct the holder of two plates, one arranged over the other whereby the connection between the key case cover and the inner plate may be adjacent the upper edge of the cover and thus prevent flexing of the cover away from the holder in the use of the key device.

The invention consists further in the features hereinafter described and claimed.

In the accompanying drawing;

Fig. 1 is an elevational view of a key case equipped with a key holding means constructed in accordance with my invention;

Fig. 2 is an enlarged transverse sectional view

taken on line 2—2 of Fig. 1 to illustrate details of the construction;

Figs. 3 and 4 are elevational views of the flexible closure providing member and the rear plate of the holder, respectively; and

Fig. 5 is a sectional view similar to that of Fig. 2 of a modified form of construction to be hereinafter described.

The key case, as shown in Fig. 1, has an enclosing envelope comprised of a single piece of 10 leather or other suitable covering material of the desired flexibility, size, and shape and divided into three integrally connected sections 1, 2, and The section I is the mid-section of the case and constitutes the supporting panel to which 15 the key holding means of my invention is secured. The other sections 2, 3 serve as flaps on opposite sides of the mid-section and are foldable into overlapping relation over the mid-section to enclose the key holding means and attached keys in 20 the case as in devices of this general character. The flaps 2, 3 are releasably secured together in overlapping relation by a snap fastener, the cooperative parts 4, 5 of which are carried by the respective flaps, as shown in Fig. 1.

The key holding means of my invention includes a pair of overlapping metal or other rigid plates 6, 7 secured as by rivets or eyelets 8, 9 to the inner side of the panel 1 adjacent its upper edge. The plate 6 is first applied to the panel 30 1 and secured in place by the rivets 8 whereupon the plate 7 is laid over the plate 6 and secured to the panel 1 by the rivets 9, the rivets 9 passing through both plates, and the yieldable closure providing member 10 interposed between the 35 plates as shown.

The plate 6 has flatwise contact with the panel except at the upper edge of the plate, which edge is offset inwardly from the body of the plate to provide a marginal flange 11. The plate 40 7 is co-extensive with the plate 6 and is provided along its upper edge with an inwardly extending flange 12, which flange interlocks with the flange II to secure the upper edges of the plates together as shown in Fig. 2. In accomplishing 45 this function the flange 12 fits against the inside of the flange II in the space between the flange If and the panel I. This prevents separation of the plates at their upper edges and allows the use of one set of rivets 9 to secure the plates to- 50 gether and to the panel 1. The location of the rivets 8 adjacent the upper edge of the panel 1 prevents separation of the panel from the inner plate 6. The upper portion of the plate 7 is preferably flush with the upper edge of the panel | 55

to provide a neat appearing construction. Moreover, the offsetting of the flange !! is approximately equal to the gage or thickness of the plate 7 so that the flange 12 will fill the space 5 between the flange II and the panel I as shown. Also the rivets 8 are of such size and they are so located as to hold the upper marginal portion of the panel against the flange 12 and thus preclude gapping to detract from the appearance 10 of the finished article.

The plates 6 and 7 are preferably in the form of stampings and extend crosswise of the panel from one side to the other as shown so that the key holding means as provided by the plates may 15 accommodate a fairly large number of keys, six being provided for in the particular embodiment disclosed.

The outer plate I has an outwardly bulged substantially semi-cylindrical portion 13 along 20 its upper edge and extending from one side of the plate to the other as shown. Laterally spaced and similarly disposed slots 14 are provided in the bulged portion 13 in transverse relation thereto and these slots continue into the adjacent flat 25 portion 15 of the plate 7 below the bulged portion. The slots 14 connect at their lower ends with larger apertures or openings 16 in the flat portion of the plate, thus giving slots the conventional key-hole shape.

The openings 16, one for each slot 14 extend through the plate 7 and are closed on their inner sides by yieldable closures 17. These closures for the several slots are in the form of substantially flat spring-like tongues provided on the 35 closure providing member 10 as shown in Fig. 3. The member 10 is in the form of a metal plate of the desired spring material, the plate providing a common support for all of the tongues as shown. The tongues are integral with the plate being 40 formed by slitting the plate through one longitudinal edge.

The member 10 is secured in place between the plates 6 and 7 with the tongues 17 overlying the inner sides of the slot 14 at the openings 16 45 and extending part way into the bulged portion 13 as illustrated in Fig. 2. The portion 15 of the plate 7 in which the opening 16 and the adjacent portion of the slots 14 are provided is offset inwardly from the panel I to provide a flexing 50 space for the tongues 17 in applying the key attaching members, to be hereinafter described. to and releasing them from the slots in the plate 7. The tongues 17 are also offset inwardly from the body of the member 10 so that the tongues 55 may normally lie close to the inner sides of their respective openings and slots.

The key attaching members, one for each slot 14, are in the form of rigid members, each having a shank 18 provided at one end with a head 19 and at the opposite end with a socket 20 as shown in Fig. 2. The heads 19 are larger than the slots 14 so as to bridge the slots when the members are engaged in the slots. The heads 19 are 65 smaller, however, than the openings 16 whereby the members may be applied to and removed from the plate 7. When the openings 16 are circular as shown, the heads of the members are similar in shape. The shanks 18 are so formed as 70 to pass readily through the slots.

A snap hook 21 is provided for each key attaching member 18. The hooks are engaged with the sockets 20 and serve to connect the selected keys thereto as shown. The hooks are preferably 75 formed as shown in Fig. 2, each hook having one

end free whereby a key may be readily applied to and removed from the hook. The other end of the hook fits in the socket 20 of its associated attaching member 18. The connection between the two is a swiveled one so that the key and hook 21 may be turned and swung, respectively, with respect to the attaching member. Thus freedom of movement is allowed for the key especially when out of the case in position for use as indicated in Fig. 1. This swivel connection is pro- 10 vided by having the socket 20 cylindrical and the engaged portion of the hook circular or in ball-like form as shown.

To engage an attaching member 18 with the plate 7, the head 19 of the member is inserted 15 into the selected opening 16 and the member is pressed inwardly against the yieldable or spring closure 17 for such opening. This flexes the closure inwardly, as apparent from Fig. 2, and when the head of the member clears the walls of the 20 slot 14, the member is moved or shifted upwardly into the bulged portion 13 whereupon the pressure on the closure 17 is released and the latter snaps into closing position against the rear side of the plate 7. The head 19 of the member now 25 bridges the slot 14 and the member retains its connection with the plate 7. The bulged portion 13 is made on a radius large enough to freely accommodate the heads of the several members 18 and thus the keys which the members connect 30 to the plate may be individually swung from a pendant position within the case to a useable or operative position exterior of the case and above the plate 7 as shown in Fig. 1.

Each key attaching member 18 is long enough 35 to be readily and easily grasped for forcing it against a closure 17 and to position its key exterior of the case as shown in Fig. 1.

With the closures 17 flexible independently of each other, the application of a member 18 to or 40 the removal of a member from the plate 7 will not release the connection of the other members 18 with the plate with the result that the other keys cannot be accidentally disconnected from the plate in the application or removal of one key 45 to and from the plate. Moreover, with the yieldable closures or tongues 17 flexed by forcing the members 18 against them, the keys may be applied to and removed from the plate with considerable ease in that the body of the key case 50 may be appropriately held in one hand and the selected member 18 manipulated with the other without the necessity of manually holding the releasable closure or tongue in open position to receive or release a member 18.

The free or upper ends of the several tongues 17 where they extend into the bulged portion 13 of the plate 7 are deflected or bent away from the plate so as to avoid the presence of a shoulder to hinder the movement of a member 18 into the 60 space between the plate 7 and the tongue when releasing a member from the plate. The bulged portion 13 extends sufficiently outward from the body of the plate 7 that the keys connected to 65 the plate by the several members 18 may hang in pendant relation to the plate and thus be readily closed within the case when the closing flaps 2, 3 are folded one on the other and secured together by the snap fastener between them. Furthermore, construction is simple and inexpensive to make and provides an efficient key holding means for key cases. The plate 6 also takes the wear of the tongues 17, if any, when flexed inwardly, and thus protects the panel I from con- 75

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tact with the tongues or well as with the head ends of the fasteners is.

The modification shown in Fig. 5 is the same as the structure previously described except that the inner plate 6 of the previous structure is omitted and thus also the rivets 8 are not employed. The upper edge of the plate 7a is not flanged as in the previous construction terminating directly adjacent the inner surface of the panel 1a to which the plate is secured by rivets or eyelets 9a. In all other respects the construction is similar to that of the previous one and similar parts are marked with like reference numerals.

The details of construction and arrangement of parts shown and described may be variously changed and modified without departing from the spirit and scope of my invention, except as pointed out in the appended claims.

I claim as my invention:

1. In a key case, a support, a holder having a plate secured to the support, said plate having a key-hole slot therein, a member for attaching a key to the plate, said member having a headed one engageable with the slot through the larger portion thereof, and yieldable means at the larger portion of the slot to releasably connect the member to the plate, said means being clamped between the plate and the support and being flexed on applying the member to and removing it from the slot.

2. In a key case, a support, a key holder having a plate secured to the support, said plate having a plurality of spaced key-hole slots therein, members for attaching keys to the plate at the slots, said members, each having a headed end engageable with a slot through the larger portion thereof, and yieldable means at the larger portions of the slots for releasably connecting the members to the plate, the yieldable means for the several slots clamped between the support and the plate and flexing independently of each other on applying the members to and releasing them from the slots.

3. In a key case, a support, a key holder comprising a pair of overlapping plates secured to the support, a key-hole slot in the outer plate, a member for attaching a key to the outer plate, said member having a headed end engageable 50 with the slot through the larger portion thereof, said outer plate being offset outwardly from the inner plate at said slot to provide a recess to accommodate the headed end of said member when attached to the outer plate, and resilient means 55 at the entrance end of the slot to releasably connect the member to the outer plate, said means being clamped in position by the plates and flexing on applying the member to and releasing it from the slot. co

4. In a key case, a support, a key holder having a plate secured to the support, said plate having a barrel-like portion along its upper edge and projecting outwardly from the front side of the plate, a plurality of laterally spaced key-hole 65 slots in said barrel, said slots extending transversely of the barrel and into the part of the plate below the same, members for attaching keys to the plate at the slots, said slots having their entrance ends in the portion of the plate below 70 the barrel whereby the key attaching members may be attached to and removed from the slots from the front side of the plate while held in substantially transverse relation thereto, said members each having a headed end for engage-75 ment with the slots through the entrance ends

thereof, and yieldable closures for the entrance ends of the slots, said closures being clamped between the plate and the support and flexing independently of each other on applying the members to and removing them from the slots.

5. In a key case, a support, a plate secured to said support, said plate having a barrel-like portion projecting outwardly from the front side of the plate, a key hole slot in the plate, said slot having its narrower portion extending across the 10 barrel and into the adjacent front part of the plate, a key attaching member having a headed end insertable through the larger portion of the slot and shiftable to the narrower portion of the slot in the barrel for connecting the member to 15 the barrel, said slot having its larger portion in the front part of the plate adjacent the barrel, whereby the key attaching member may be applied to or removed from the slot from the front side of the plate, and yieldable means at the 20 larger portion of the slot to releasably connect the member to the barrel, said means being flexed on inserting the member into or removing it from the slot.

6. In a key case, a support, a plate secured to 25 said support, said plate having a barrel-like portion projecting outwardly from the front side of the plate, a key hole slot in the plate, said slot having its narrower portion extending across the barrel and into the adjacent front part of the 30 plate, a key attaching member having a headed end insertable through the larger portion of the slot and shiftable to the narrower portion of the slot in the barrel for connecting the member to the barrel, said slot having its larger portion in 35 the front part of the plate adjacent the barrel, whereby the key attaching member may be applied to or removed from the slot from the front side of the plate, and a yieldable closure for the larger portion of the slot, said closure being on 40the inner side of the plate for releasably connecting the member to the barrel, said closure being flexed on applying the member to or removing it from the slot.

7. In a key case, a support, a plate secured to 45 said support, said plate having a barrel-like portion projecting outwardly from the the front side of the plate, a key hole slot in the plate, said slot having its narrower portion extending across the barrel and into the adjacent front part of 50 the plate, a key attaching member having a headed end insertable through the larger portion of the slot and shiftable to the narrower portion of the slot in the barrel for connecting the member to the barrel, said slot having its larger portion 55 in the front part of the plate adjacent the barrel, whereby the key attaching member may be applied to or removed from the slot from the front side of the plate, and a yieldable closure for the larger portion of the slot, said closure being on the inner side of the plate and extending along the slot toward the barrel for releasably connecting the member thereto, said closure being flexed inwardly by the member on applying the member to or removing it from the slot, the plate at the closure being offset to provide a flexing space for the closure.

8. In a key case, a support, a plate secured to the support, said plate having a barrel-like portion projecting outwardly from the front side of the plate, a plurality of laterally spaced key hole slots in the plate, said slots having their narrower portions extending across the barrel and into the adjacent front part of the plate, key attaching members, one for each key and 75

each member having a headed end insertable through the larger portion of a slot and shiftable to the narrower portion of the slot in the barrel for connecting the member to the barrel, said slots having their larger portions in the front part of the plate adjacent the barrel whereby the members may be applied to or removed from the slots from the front side of the plate, yieldable tongues closing the larger portions of the slots for releasably connecting the members to the barrel, said tongues being flexed independently of each other on applying the members to or removing them from the slots, and a common support for the tongues.

9. In a key case, a support, a pair of overlapping plates secured to the support, the outer plate having a barrel-like portion projecting outwardly from the front side of said plate, a key hole slot in the outer plate, said slot having its nar-20 rower portion extending across the barrel and into the adjacent front part of the outer plate. a key attaching member having a headed end insertable through the larger portion of the slot and shiftable to the narrower portion of the slot 25 in the barrel for connecting the member to the barrel, said slot having its larger portion in the front part of the outer plate adjacent the barrel whereby the key attaching member may be applied to or removed from the slot from the front 30 side of the outer plate, and yieldable means at the larger portion of the slot to releasably connect the member to the barrel, said means being flexed on applying the member to or removing it from the slot, said inner plate extending across 35 the barrel on the inner side thereof and having interlocking connection with the outer plate at the barrel.

10. In a key case, a support, a plate secured

to the support, said plate having a barrel-like portion projecting outwardly from the front side of the plate, a key hole slot in the plate, said slot having its narrower portion extending across the barrel and into the adjacent front part of 5 the plate, a key attaching member having a headed end insertable through the larger portion of the slot and shiftable to the narrower portion of the slot in the barrel for connecting the member to the barrel, said slot having its 10 larger portion in the front part of the plate adjacent the barrel whereby the member may be applied to or removed from the slot from the front side of the plate, yieldable means at the larger portion of the slot to releasably connect 15 the member to the barrel, said means being flexed on inserting the member into or removing it from the slot, and a key holding element swivelly connected to said member.

11. In a key case, a support, a plate secured 20 to the support, said plate having a barrel-like portion projecting outwardly from the front side of the plate, a key hole slot in the plate, said slot having its narrower portion extending across the barrel and a communicating portion in the 25 front part of the plate adjacent the barrel, a key attaching member having a headed end insertable through the larger portion of the slot and shiftable to the narrower portion of the slot in the barrel for connecting the member to 30 the barrel, said slot having its larger portion in the front part of the plate adjacent the barrel whereby the key attaching member may be applied to or removed from the slot from the front side of the plate, and yieldable means to releas- 35 ably connect the member to the plate.

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