May 16, 1939. K. FISCHBACHER 2,158,623

CONVERTIBLE RIFLE RACK

Filed Dec. 17, 1937 2 Sheets-Sheet 1

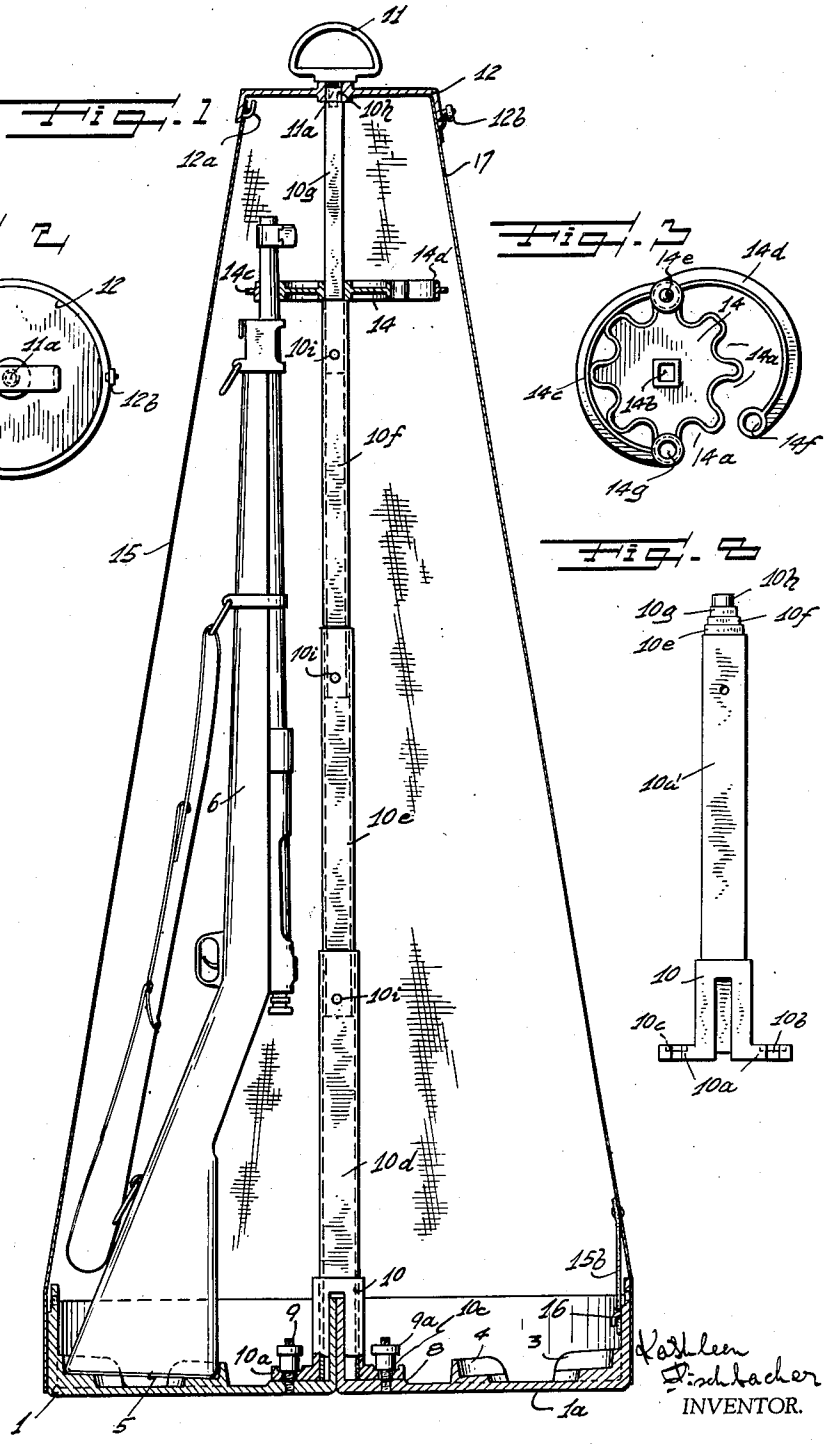


Fig. 1

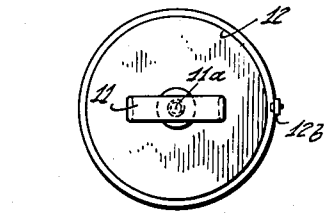


Fig. 2

Fig. 3

Fig. 4

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Filed Dec. 17, 1937 2 Sheets-Sheet 2

Fig. 4

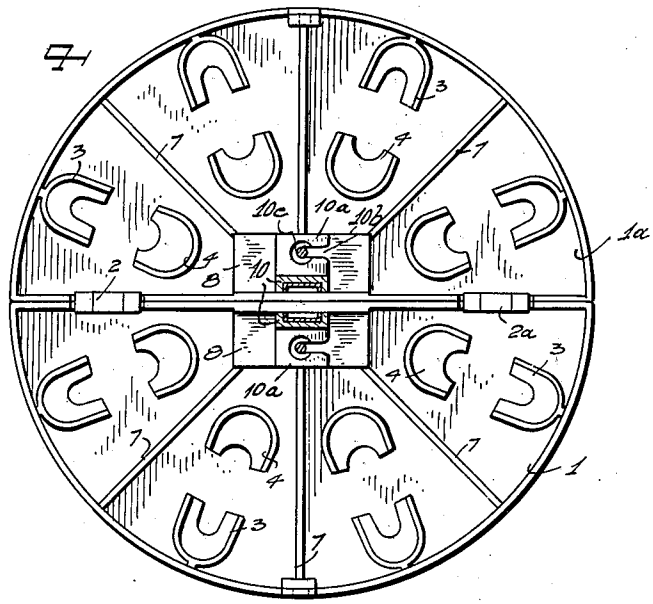


Fig. 5

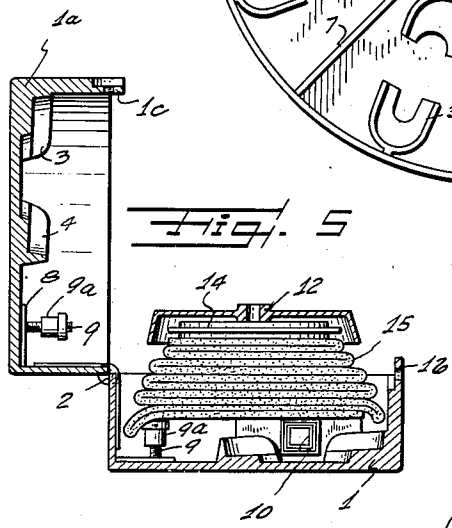


Fig. 6

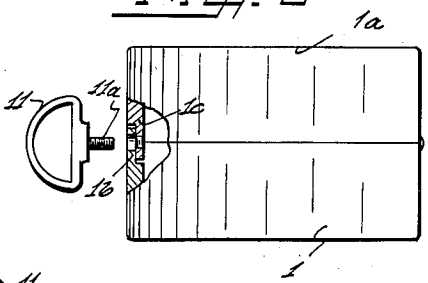
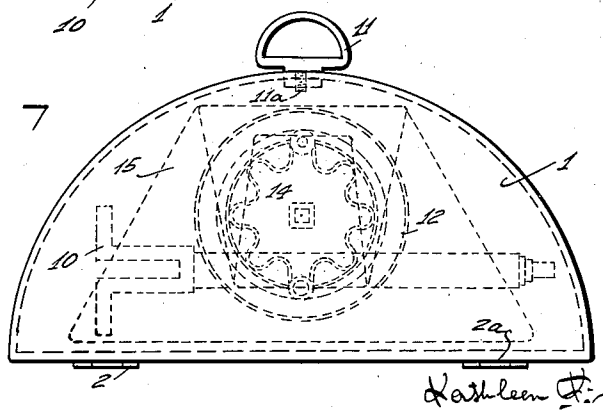


Fig. 7



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CONVERTIBLE RIFLE RACK

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Application December 17, 1937, Serial No. 180,280

6 Claims. (Cl. 312—6)

My invention relates to rifle racks, and particularly to convertible and portable rifle racks and one of the objects is to provide a portable rifle rack which, after service, can be folded up and carried about in the form of an ordinary carrying case.

Another object is to provide a collapsible rifle supporting base arranged to form a carrying case when folded, and means to securely lock the base when in the open or service position.

Another object is to provide a telescoping center support and means for quickly and securely mounting the same onto the base, thereby rigidly locking the base in the open or service position.

Still another object is to provide a detachable rifle-rest and means to lock and unlock the rifles in their respective positions.

A further object is to provide a collapsible protecting cover and means to quickly attach and detach the same to and from the structure.

A still further object is to provide a detachable handle serving as a locking means for the set-up structure and also serving as a carrying handle for the collapsed and folded-up structure.

These and other objects I attain by the novel arrangement and combination of various parts and elements fully described in this specification and illustrated in the accompanying drawings in which:

Figure 1 represents a sectional side elevation of the preferred embodiment of my invention.

Figure 2 is a top view of the protecting shell member of the structure.

Figure 3 represents a top view of the detached rifle-rest member and the locking means for the rifles, shown in the open and closed position.

Figure 4 represents a top view of the combined rifle supporting base and carrying case in the open or service position, also showing a partly sectional view of the locking feature forming a part of the telescoping center support.

Figure 5 represents a sectional view showing the partly opened combined base and case, with the various members folded and stacked within the case.

Figure 6 is a partly sectional end view of the combined base and case in the closed position and the handle member being attached thereto.

Figure 7 represents an end view of the closed case, indicating in dotted lines, the position of the various members stored within the case.

Figure 8 represents the telescoping center supporting and base locking member in its detached and collapsed position.

As shown in Figures 1, 2, 3 and 4, the rifle supporting base comprises two half shells, identically alike, marked 1 and 1*a*, and each presenting a semicircular case hingedly connected by hinge members 2 and 2*a* permitting the shell members to either be opened thereby forming the rifle base, or closed thus forming a carrying case, indicated in Figures 6 and 7. Within each of half shells 1 and 1*a* provision is made for a number of radially arranged, socketlike receptacles 3 and 4, positioned and shaped to loosely engage with the butts 5, of rifles 6, one of which rifles is shown in Figure 1. Radial ribs 7 serve to add strength to the otherwise light shell structure. Slightly raised platforms 8 and properly spaced studs 9 and nuts 9*a*, serve to engage the forked bottom member 10, of a telescoping center support, by means of feet 10*a* provided with slots 10*b*, terminating into circular depressions 10*c* intended to engage with the lower portion of nuts 9*a*. It may be pointed out that nuts 9*a* need only to be partly unscrewed to permit the engaging or disengaging to or from foot members 10*a*. It also will be noted, see Figures 1 and 4, that the forked bottom member 10, when inserted, engages the walls of shell members 1 and 1*a* and when forced into engagement with platforms 8, by means of nuts 9*a*, securedly locks shell members 1 and 1*a* in their open position thereby providing a perfectly rigid rifle base structure. Forked bottom member 10 forms the base of a telescoping center support comprising the rigidly connected square tube 10*d*, telescoping tubes 10*e* and 10*f*. The top member 10*g* may be of a solid square rod, telescoping into tube 10*f*. This top member 10*g* terminates into a cylindrical internally threaded portion 10*h* intended to receive the threaded stud portion 11*a* of a handle 11. Conventional locking-pins 10*i* serve to lock the individual telescoping tubes in position, when extended. Figure 8 shows the center support in its collapsed position. Protecting shell 12 centrally fitted over part 10*h* of rod 10*g*, resting upon the shoulder forming the base of cylindrical part 10*h*, is being clamped into position by handle member 11, see Figure 1.

Supported on top of tube 10*f* is a rifle barrel-rest member comprising a star shaped body part 14, the outer circumference of which is provided with as many barrel engaging notches or depressions 14*a* as there are rifle butt receptacles in the rifle supporting base. A centrally positioned, square perforation 14*b* arranged to slidingly fit over square rod 10*g*, assures the proper positioning of the rifle rest member relative to

the rifle butt receptacles. A pair of semi-circular barrel locking members 14c and 14d, hingedly mounted at 14e upon body 14 are provided with perforated members 14f to match a similar perforation 14g of body member 14. These locking members can be, individually or in unison, opened or closed and held in position by means of a padlock or any other suitable locking means.

With the rifle base, center support, barrel rest, protecting shell and handle member in position, as indicated in Figure 1, the rifle rack structure is ready for service.

Now to protect the rifles against rain, dust, snow etc. a properly shaped canvas covering 15 is provided and held in position, at its upper end, by a number of eyelets engaging hooks 12a mounted within the protecting shell member 12. The lower end of covering 15 encircles and overlaps the walls of the rifle base members 1 and 1a, and is held in position by a number of eyeleted elastic bands 15b securely mounted upon the inside of covering 15. Hooks 16, secured to the inside of the walls of the base, serve to engage the eyelets of bands 15b and thus effectively hold the covering 15 in position. To make the deposited rifles easily accessible, covering 15 may be opened, along its full height, by buttons, snap fasteners or any suitable closure means 17, which in turn can be locked by means of stud and nut 12b, mounted upon shell member 12.

The complete rifle rack structure can be easily collapsed, folded up, the various members stored within the shell members 1 and 1a, and carried about in the shape of a carrying case. This is accomplished by removing handle member 11, unhooking and properly folding the canvas cover, removing protecting shell 12 and rifle rest member 14, and collapsing the telescoping center support and disengaging bottom member 10 from base shell members 1 and 1a. With the proper assembling, see Figure 5, of the various members within one of the half shells, the other half shell can be easily closed whereby the perforated lug member 1b, will overlap the threaded lug member 1c, permitting threaded stud 11a, of handle 11, to enter and engage the correspondingly threaded lug member 1c, thereby not only securely locking the two shell members, now forming a complete case, but also providing a convenient carrying handle.

Having thus fully described my invention I do not wish to confine myself to the exact details of construction as disclosed, as there may be many variations possible, within the spirit of my invention.

What I claim as new and desire to secure by Letters Patent is:

1. In combination with a convertible and portable rifle rack, a collapsible base member comprising a pair of hingedly connected half shell members, a plurality of radially positioned and circularly disposed rifle butt engaging receptacles forming a part of said half shell members, and locking means for said half shell base members to lock same in the opened and in the closed position.

2. In a convertible and portable rifle rack, a collapsible supporting base member comprising a pair of hingedly joined half shell members, a plurality of radially disposed rifle butt receptacles positioned within said half shell members, and a locking means for locking said half shell members in the opened position comprising a detachable forked engaging member adapted to engage the sides of the upwardly extending wall portions of said half shell members and clamping means to rigidly fasten said forked engaging member to the bottom portion of said half shell members, and a locking means to lock said half shell members in the collapsed and closed position.

3. Substantially as claim 2, in which the locking means for said half shell members for the closed position comprises a pair of overlapping lugs forming an integral part of said half shell members, the overlapped lug threaded and the overlapping lug perforated to permit the insertion of a correspondingly threaded stud of a handle member.

4. In a convertible and portable rifle rack of the character described, the combination of a pair of hingedly connected base members, a centrally disposed supporting member which comprises a plurality of telescoping tubes provided with a forked locking and attaching member to lock and unlock said supporting member to and from said base members.

5. Substantially as claim 4, in which the telescoping tubes of the central supporting member are angularly shaped and the lowermost tube is joined to the forked locking member which comprises an angularly shaped and forked body member, said body member terminating into a pair of perpendicularly extending foot members, and said foot members provided with slots terminating into centrally disposed depressions to engage and lock with correspondingly disposed studs and nuts within said hinged base members.

6. A convertible and portable rifle rack comprising a pair of hinged and collapsibly disposed base members, a telescoping top-shell and rifle-supporting member the lower portion of which is arranged to engage and lock said pair of base members in their extended position, a detachable rifle-rest member engaging and supported by said telescoping supporting member, a rifle locking means forming part of said rifle-rest member, and a detachable pliable cover and means to attach and detach said cover to and from said rifle rack when in its service position, substantially as set forth.

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