C. HOKANSON.

LOCK SNAP HOOK.

APPLICATION FILED MAR. 21, 1919.

1,376,278. Patented Apr. 26, 1921.

Fig. 1.

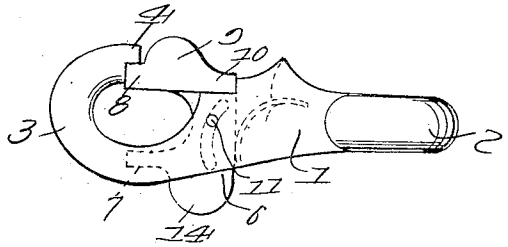


Fig. 2.

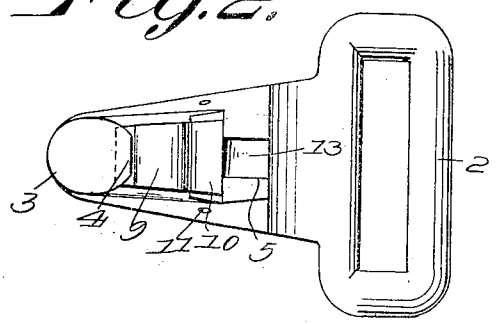
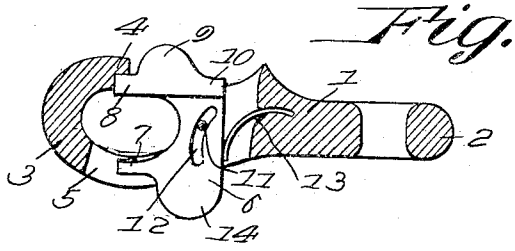


Fig. 3.



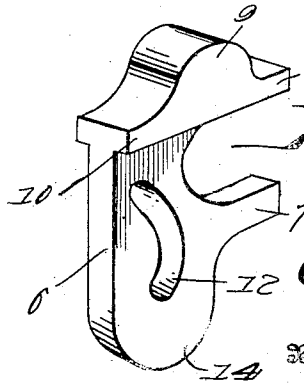


Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES HOKANSON, OF CROOKSTON, MINNESOTA, ASSIGNOR OF ONE-THIRD TO EMANUEL HOKANSON AND ONE-THIRD TO EMMA KOEPPE, BOTH OF CROOKSTON, MINNESOTA.

LOCK SNAP-HOOK.

1,376,278. Specification of Letters Patent. **Patented Apr. 26, 1921.**

Application filed March 21, 1919. Serial No. 283,969.

To all whom it may concern:

Be it known that I, CHARLES HOKANSON, a citizen of the United States of America, residing at Crookston, in the county of Polk and State of Minnesota, have invented new and useful Improvements in Lock Snap-Hooks, of which the following is a specification.

The purpose of the invention is to provide a new and novel form of snap hook for use in connection with harness, ropes, straps and the like, where it is desired to provide the same with means for quick attachment to rings. To this end the invention comprises a hook having means for attachment to a rope or strap and a keeper carried by the hook and adapted for closing the latter, so that when the hook engages the ring the latter is precluded from detachment from the hook except by the manual operation of the keeper which is so mounted in the hook and provided with such means as to permit this manual operation.

Further purpose of the invention is to provide a device of this character, which is simple in construction, durable and effective in operation and inexpensive to manufacture.

Other and further objects appear in the following description, wherein the invention is set forth in detail.

To the exact construction in which it is shown and described, the invention is not to be restricted. The right is reserved to make such changes or alterations as the actual reduction to practice may suggest in so far as such changes or alterations are compatible in spirit with the annexed claim.

In the drawings which accompany this specification and form a part thereof:

Figure 1 is a view in side elevation of the improved snap hook.

Fig. 2 is a plan view thereof.

Fig. 3 is a central longitudinal sectional view through the hook.

Fig. 4 is a perspective view of the keeper.

Referring to the drawings the invention is shown as comprising a body portion 1 formed at one end with a loop or eye 2 for the attachment of the body portion to a strap or the like. The body portion in plan is of tapering shape and blends into a hook 3, the nose of which is formed with a transversely disposed shoulder 4.

The body portion 1 is formed with a slot 5 extending therethrough and this slot is designed to receive the body portion 6 of the keeper used in conjunction with the hook. The body portion 6 is formed with a leg 7 projecting from one edge thereof, and is further formed with a portion providing a leg 8 which in conjunction with the leg 7 and the body portion forms the shape of a U. Projecting from the portion 8 there is a nose 9 and this nose and the portion 8 are of greater thickness than the body portion 6, so that they span the thickness of the body and the hook at the open side of the latter. The body portion is cut away on the open side of the hook to provide a seat for the heel portion 10 of the keeper and the latter is secured in the body portion by a pivot pin 11, which passes through the body portion and closes the slot 5 formed therein, this pin passing through the body portion 6 of the keeper through an arcuate slot 12 formed in the latter.

The body portion 6 of the keeper is formed with a tail portion 14, which projects through the slot 5 in the body portion on the opposite side from the nose 9 of the keeper. When the keeper is in closed position the free end of the portion 8 abuts the shoulder 4 and the keeper is kept normally in this position by a spring 13 which is set in the body portion at the side of the slot 5 formed therein. The free end of the spring 13 bears against the edge of the body portion 6.

The improved hook may be readily attached to a ring by bringing the nose 9 of the keeper against the ring, at the same time exerting a pressure tending to throw the nose 9 inwardly with respect to the hook. This will result in rocking the keeper with reference to the hook, the shoulder portion 10 rocking out of its seat in the body portion 1 and the body portion 6 of the keeper moving with reference to the stud 11, the arcuate slot 5 permitting such movement. When the keeper has been moved in far enough to permit the ring to engage the hook, the spring 13 returns the keeper to its normal position, which is that shown in the drawings.

To shift the keeper to open position to permit the removal of the ring, the finger is employed to exert a pressure on the projecting tail portion 14 of the keeper so as to rock the latter in the direction to which it was

previously rocked by the ring. The keeper may thus be held in open position to permit the disengagement of the ring from the hook.

I claim—

A device of the kind set forth comprising a body portion formed with a hook and a slot therethrough in substantially the plane of the hook, a keeper comprising a body portion corresponding in thickness to the thickness of the slot carried in and movable in the latter, the body portion of the keeper being formed with a pair of spaced legs of which one is of greater width than the body portion but of equal thickness to the hook, the hook and the thicker leg being formed respectively with transversely disposed abutting shoulders engaging each other in the closed position of the keeper, the said thicker leg spanning the open side of the hook, a pin passing through the body portion of the hook and across the slot therein, the body portion of the keeper being formed with an arcuate slot through which the pin passes and with a tail portion in engagement by the finger, and a flat spring housed within the slot of the body portion of the hook and having its terminal bearing on the body portion of the keeper and tending to keep the thicker leg thereof yieldingly in a position of closure for the open side of the hook.

In testimony whereof I affix my signature.

CHARLES HOKANSON.