July 20, 1943. J. J. O'CONNOR 2,324,638

KIT BAG HANDLE AND LOCK

Filed Aug. 3, 1942

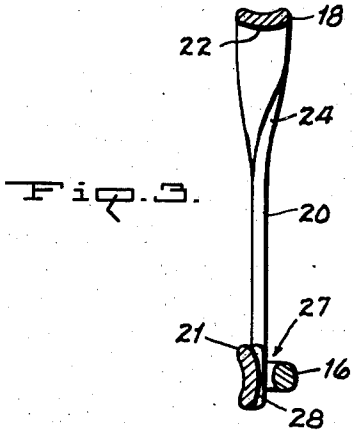


Fig. 3.

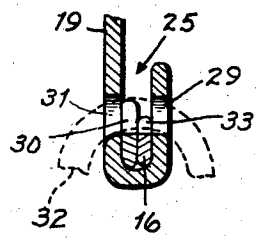


Fig. 4.

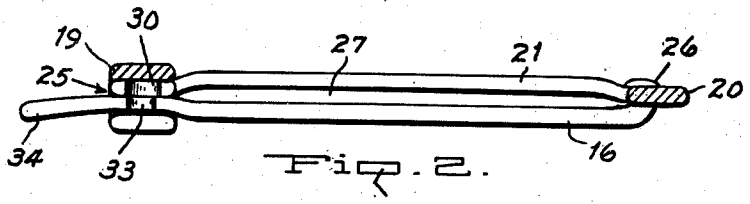


Fig. 2.

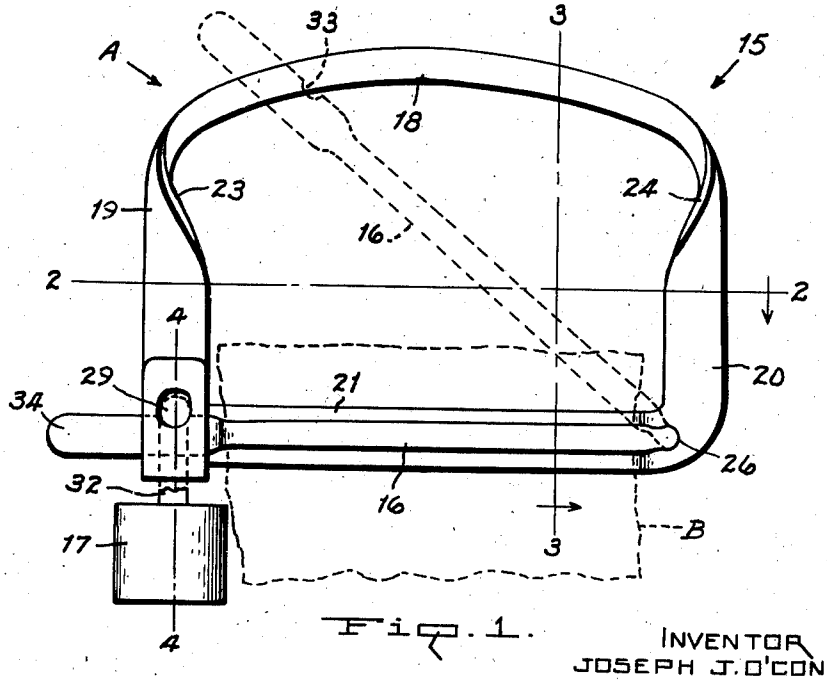


Fig. 1.

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Patented July 20, 1943 2,324,638

UNITED STATES PATENT OFFICE

2,324,638

KIT BAG HANDLE AND LOCK

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Application August 3, 1942, Serial No. 453,459

3 Claims. (Cl. 70—65)

This invention relates to a kit bag handle and lock and has more particular reference to that type of device used for detachably engaging the open neck of a kit or dunnage bag and the like.

One of the objects of the present invention is to provide a device of this character which may readily and easily be detachably connected to and held in locked engagement with the neck portion of a kit or other bag to safeguard the contents thereof and at the same time to provide convenient handle means for carrying the bag.

A further object of the invention is to provide a device of this character wherein the locking bar which engages the neck portion of the bag is provided with definite lock engaging means to guard against tampering or the unauthorized release of the bag locking bar.

A still further object of the present invention is to provide a device of this nature which closes and lockingly engages the neck portion of a kit, dunnage or other bag without tearing or injuring the bag fabric or other material and without requiring the bag to be provided with cord, grommets or other engageable means.

Yet a further object of the invention is to provide a device of this character which is simple in form, rugged in nature and one that will the more satisfactorily perform the functions required of it.

Having regard to the foregoing and other objects and advantages which will become apparent as the description proceeds, the invention consists essentially in the novel combination and arrangement of parts hereinafter described in detail and illustrated in the accompanying drawing in which;

Fig. 1 is an elevational side view of an embodiment of the present invention, the neck portion of a kit bag being shown in dotted lines in locked engagement with the device.

Fig. 2 is a section taken on the line 2—2 of Fig. 1.

Fig. 3 is a section taken on the line 3—3 of Fig. 1.

Fig. 4 is a section taken on the line 4—4 of Fig. 1.

Referring now to the accompanying drawing representing an embodiment of the present invention and wherein like letters and numerals of reference designate corresponding parts in the various illustrations, the letter A indicates the device as a whole and the letter B a kit or other bag to which the device may be attached.

In broad general terms the device consists of a frame or body 15, a locking bar 16 and a conventional padlock 17, the latter of which may be of any well known and standard type.

More in detail, the frame may be composed of metal, plastic material or other rugged and strongly fabricated structure and may be referred to in terms of being generally rectangular in outline and includes handle grip or bail 18, depending leg members 19 and 20 respectively and a fixed transverse bar member 21. Preferably although not necessarily, the frame is constructed of flat material and this readily lends itself to shaping, forming or molding as desired or required. The handle or bail member 18 then is curved longitudinally substantially in the form of an elongated arc as seen in Fig. 1 with the under face thereof shaped to convex form as indicated at 22, see Fig. 3, to provide a comfortable hand grip for the purpose of carrying the bag or other object to which it may be attached.

The extremities of the handle member 18 are twisted as indicated at 23 and 24 respectively which lends rigidity to the structure and enables the leg members 19 and 20 to be arranged in parallel relationship with the handle member. The transverse bar member 21 is an integral part of the frame 15 and extends transversely from the leg member 20 to a point adjacent the lower extremity of the leg member 19 to which it is fixedly secured by spot-welding, rivets or other suitable means.

At its lower end, the leg member 19 is folded upon itself to form a receiving socket 25 of inverted, substantially U shape formation which is adapted to receive the free end of the locking bar 16, the locking bar being pivotally connected as at 26 to the frame member 21.

As more particularly illustrated in Fig. 2, the transverse bar member 21 is offset outwardly from the locking bar in close proximity to the pivotal connection 26 and the socket 25 while the locking bar 16 is offset outwardly from the transverse bar member in close proximity to the pivotal connection 26 and the socket engaging portion of the said locking bar. Thus with the foregoing structure a relatively narrow, elongated slot or opening 27 is formed between the bar members 16 and 21 for receiving and retaining a kit bag or the like therein when the locking bar 16 is in engagement with the socket 25.

In order that the texture of the kit bag or other device be not torn or damaged when in locked position, the transverse bar 21 throughout its engaging length is shaped to convex form at its inner face as indicated at 28 and presents a

smooth, even surface upon the inner or engaging wall of the opening 27. Thus with the substantially annular formation of the locking bar 16 and the contour of the transverse bar member just described, it becomes apparent that a smooth even surface is presented between the bar members which guards against damage to the kit or other bag by tearing when locked between the bar members.

Substantially midway of its height the socket member 25 is provided with opening 29, recess 30 and opening 31 all in register and which extend through the socket and provide means for receiving therein the shackle 32 of the lock 17.

In addition to the foregoing the locking bar 16 is flattened adjacent the socket engaging end and provided with a recess 33 which is designed to register with the lower or base portion of the opening 29 and 31 when the locking bar is in engagement with the socket 25. A convenient operating handle 34 is provided for the operative movement of the locking bar. When the locking bar 16 is in bag locking position, the shackle 32 engages the opening 29, recesses 30 and 33 and opening 31 and thus the free end of the locking bar 16 is firmly and securely held in locked position in the socket 25 by the bolt 32.

When it is desired to close and lock the open end of a kit bag or the like in the device, the locking bar 16 is moved free of the socket 25 a suitable distance when the neck of the bag adjacent its open end is placed against the transverse bar 21 with whatever folds or overlaps that may be necessary to cause the bag neck to extend from end to end of the longitudinal slot or openings 27. The locking bar 16 is then moved into position parallel with the transverse bar member when it is pressed home into the socket 25, the neck of the kit bag meanwhile being firmly and securely held in the opening 27 between the bar members 16 and 21. With this operation complete the shackle 32 of the lock 17 is then inserted in the socket openings aforementioned when it engages the recess 33 of the locking bar 16 and firmly and securely locks the bar 16 against movement and at the same time prevents the kit bag or other device from being opened in an unauthorized manner. In this locked position the bag may then be carried conveniently by the handle member 18 or it may be hung up by the handle in an out-of-the-way position until required.

Changes and modifications may be made in the invention without departing from the spirit or essential characteristics thereof, thus the present disclosure is to be considered as illustrative rather than restrictive and changes within the range of equivalency of the claims is intended to be embraced therein.

What I claim as my invention is:

1. In a bag handle and lock of the character described, a frame member including a handle member provided with depending leg members, a transverse bar member fixedly connecting the depending leg members, a U-shaped receiving socket formed at one end of a depending leg member provided with shackle receiving openings, a locking bar pivotally mounted on the frame member having its free end movably engageable with the receiving socket, a recess formed in the locking bar designed to register with the shackle receiving openings in the socket when the locking bar is in a bag holding position and to be engaged by a shackle and a longitudinal opening formed between the transverse bar member and the locking bar when the locking bar is in a locking position for retaining a kit bag and the like in locked engagement between the said bar members.

2. In a bag handle and lock of the character described, a frame member including a handle member provided with depending leg members, a transverse bar member connecting the depending leg members, a U-shaped receiving socket formed at one end of a depending leg member provided with shackle receiving openings, a locking bar pivotally mounted on the frame member and having its free end engageable with the receiving socket, a recess formed in the locking bar designed to register with the shackle receiving openings of the socket when the locking bar is in a bag holding position and to be engaged by a shackle and offset formations adjacent the ends of the transverse bar member and the locking bar respectively for forming a relatively narrow longitudinal bag holding opening between the said bars when the locking bar is in locked position.

3. A bag handle and lock as claimed in claim 2 wherein the transverse bar member is of substantially flat material shaped to convex formation at its inner side to provide a non-tearing surface between the transverse bar member and the locking bar when the locking bar is in a bag holding position.

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