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LOCKING MEANS

Filed Dec. 16, 1960

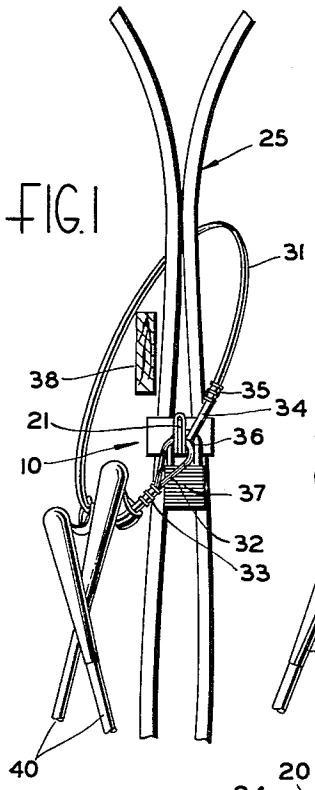


FIG. 1

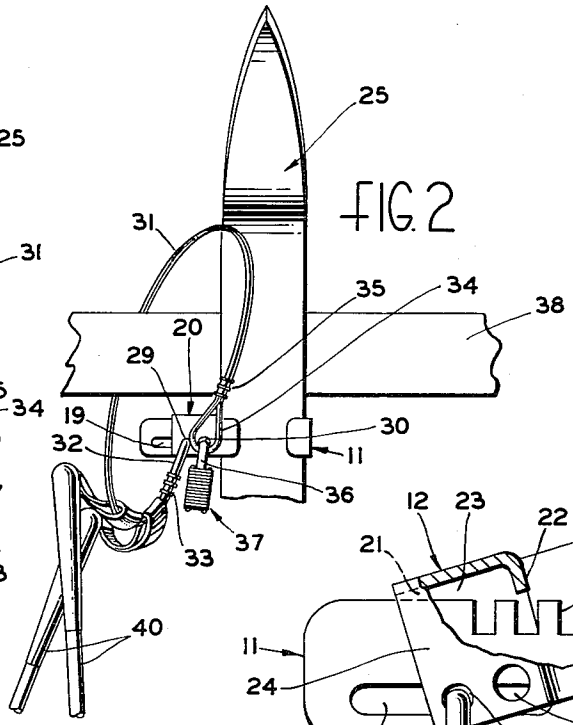


FIG. 2

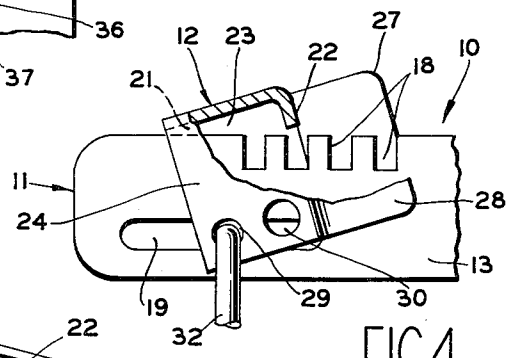


FIG. 4

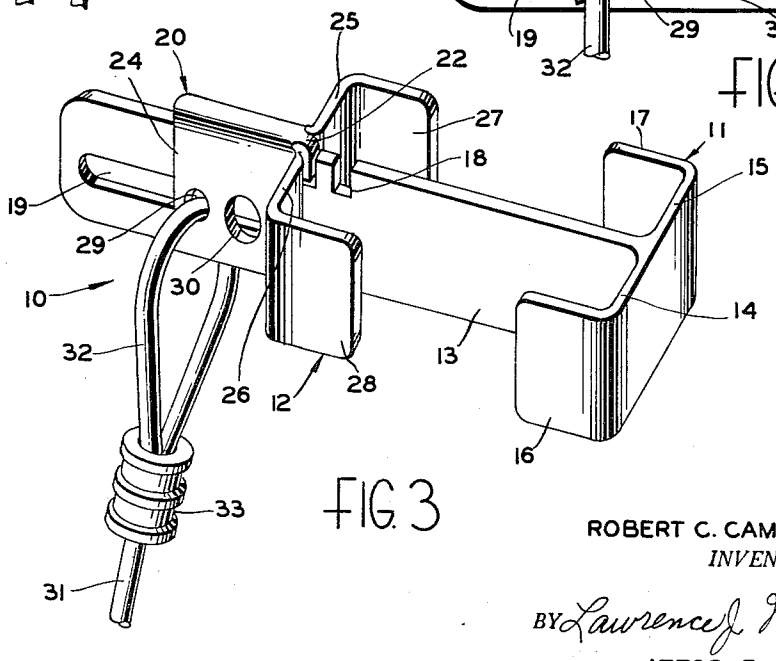


FIG. 3

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LOCKING MEANS

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The present invention relates to locking means, and more particularly, to locking means for skis or the like.

It is an object of the present invention to provide locking means or clamping means for large and bulky objects, such as skis or the like, which are generally exposed to prevent loss thereof because they are of such a nature that they cannot be readily stored and locked up.

Although the locking means of the present invention will be described in connection with skis, it is not to be considered limited thereto, as it will be readily apparent that the locking means may be used for ladders and other similar objects wherein the large size of the object prevents it from being stored and locked in a small compartment or space so that it cannot be lost.

It is another object of the present invention to provide locking means for skis or the like which is adjustable to fit any size ski and locks in seconds.

It is another object of the present invention to provide adjustable locking means for skis or the like which can be locked to anything, anywhere to prevent loss of the skis.

It is another object of the present invention to provide locking means for skis or the like in which, even if the locking means are removed from the fixed ski rack, car top, etc., the locking means are so disposed between the foot bindings and front shovel end of the skis that it cannot be removed from the skis without causing permanent damage to the skis.

Various other objects and advantages of the present invention will be readily apparent from the following detailed description when considered in connection with the accompanying drawings forming a part thereof, and in which:

FIG. 1 is a side view of a pair of skis with the locking means of the present invention clamped to the skis to secure them to a ski rack;

FIG. 2 is a view similar to FIG. 1, showing the locking means and skis as seen in front of the rack;

FIG. 3 is an enlarged perspective view of the locking means of the present invention; and

FIG. 4 is an enlarged fragmentary view of the locking means of the present invention, with parts broken away to more clearly illustrate the method of adjusting the locking means to clamp it to an object.

Referring to the drawings, the reference numeral 10 generally designates locking means or clamping means for skis or the like, comprising a first clamp member 11 and a second clamp member 12. Clamp member 11 is generally T-shaped and is provided with a rectangular flat steel plate 13 having outwardly extending cross bars or braces 14 and 15 formed on one end thereof and disposed at right angles to the strap 13. Bars 14 and 15 terminate in inwardly bent flanges 16 and 17 extending parallel to strap 13. A plurality of spaced rectangular notches or slots 18 are disposed in the top of the strap in the end thereof opposite the cross bars while a horizontal or longitudinally extending slot 19 is disposed in the lower portion of the strap. Slot 19 extends from a point overlapping notches 18 to a point adjacent the end of the strap.

Clamp member 12 consists of a U-shape member 20 having a bight 21 of sufficient size to permit the clamp member to be disposed on strap 13 and be easily moved or slid back and forth along the strap. A downwardly bent lug or ear 22 is formed on the U-shape member

adjacent the bight for insertion within the notches 18 of the first clamp member. The legs 23 and 24 of the U-shape member have outwardly extending cross bars 25 and 26 thereon, similar to the bars of the first clamp member, and terminate in inwardly bent flanges 27 and 28, similar to flanges 16 and 17, to hold a pair of skis 25 therebetween. The lower portion of the legs of member 20 have spaced apertures or openings 29 and 30 therein. Openings 29 and 30 are disposed in alignment with slot 19 of strap 13. The end of a flexible steel strand cable 31 is threaded through openings 29 and formed into an eye 32, after which a cylindrical fastener 33 is clamped around the cable to permanently secure clamp member 12 on clamp 11. Clamp member 12 may be moved toward and away from the first clamp member to readily adjust the distance between the clamp members and hold different size skis therebetween. It is readily apparent that clamp member 12 may be turned or pivoted upwardly with respect to clamp member 11, as illustrated in FIG. 4, so that the clamp member may be easily slid or moved back and forth along strap 13 to insert lug 22 in notch 18 therein to readily adjust the distance between the clamp member to fit any size skis desired to be held therebetween.

The other end of the cable 31 is also formed with an eye 34 permanently formed therein by a clamp 35, similar to clamp 33 disposed around the cable. Opening 30 is adapted to receive the hasp or blocking bar 36 of a conventional padlock 37.

When it is desired to lock a pair of skis to a permanent rack or fixture 38, the portion of the skis between the foot binding and front shovel end are placed against strap 13 with the shovel extending outwardly from the strap, as illustrated in FIG. 1. The sides of the skis are then inserted between the cross bars and flanges of clamp member 11. Thereafter, clamp member 12 is moved along strap 13 toward clamp member 11 until its cross bars 25 and 26 and flanges 27 and 28 tightly engage the opposite sides of the skis, after which lug 22 is inserted into the notch 18 adjacent it. Thereafter, the free end of cable 31 is threaded through ski poles 40 and wrapped around the rack 38, as shown in FIGS. 1 and 2, and eye 34 is threaded in lock hasp 36. The hasp is inserted through opening 30 and the lock is closed to thus lock the skis.

It will be noted that the present invention provides a novel locking means for skis, ladders, and the like, which is readily adjustable to different sizes and which prevents large and bulky objects which cannot be easily stored and are generally exposed, from being lost. In addition, it will be noted that the adjustable locking means of the present invention is of simple construction, inexpensive to manufacture, and cannot be removed from the locked object without causing damage thereto.

Inasmuch as various changes may be made in the form, location and relative arrangement of the several parts without departing from the essential characteristics of the invention, it will be understood that the invention is not to be limited except by the scope of the appended claims.

What I claim is:

1. A device for securing skis and the like comprising a flat strap, outwardly extending cross bars disposed on one end thereof, inwardly extending flanges disposed on said cross bars, said strap having a plurality of spaced notches therein opposite said cross bars, a U-shape member slidably disposed on said strap, a downwardly extending lug on said U-shape member for insertion in one of said notches to prevent sliding of said U-shape member on said strap, another cross bar and another flange disposed on each leg of said U member, said other flanges extending toward said first mentioned flanges to hold an object therebetween, there being a longitudinal slot in said

strap below said notches, the legs of said U member having openings therein in alignment with said slot, a flexible cable having an end threaded through one of said openings and said slot securing it to said U-shaped member, and a padlock threaded through another of said openings, said slot, and another end of said cable, to fix said U-shaped member with respect to said strap, and detachably lock said cable thereto, to permit the device to be secured about a fixed object.

2. A device for securing skis and the like comprising first clamp means and second clamp means slidably disposed on said first clamp means, means for locking said second clamp means in a fixed position relative to said first clamp means, elongated flexible means having one end thereof secured to said second clamp means and said first clamp means to pivotally connect said second clamp means to said first clamp means in a plane parallel to a plane of a part of said first clamp means and adapted to be wrapped around a rack, and means for detachably locking another end of said flexible means to said second clamp means.

3. The device of claim 2 wherein said flexible means comprises a metal cable having looped ends.

4. The device of claim 2 wherein said means for detachably locking another end of said flexible means consist of a padlock.

5. Locking means for a bulky object comprising a strap member, a first clamp member disposed on one end thereof, a second clamp member disposed on said strap member in spaced relationship with said first member, means for securing said second member a predetermined distance from said first member, and loop means having one end secured to said second member and said strap member to permit said second member to slide on said strap member and to be pivoted in a plane parallel to to the plane of said strap member, and another end of said loop means being detachably locked to said second member.

6. Locking means for skis and the like comprising a strap member, a first clamp member formed on one end of said strap member, a second clamp member slidably disposed on said strap member, lug means on said second clamp member adapted to engage said strap member for preventing slidable movement thereon, and flexible loop means having one end secured to said second clamp member and said strap member to pivotally connect said second clamp member to said strap member in a plane parallel to the plane of said strap member, and said loop means having another end detachably locked to said second clamp member.

7. Locking means for skis and the like comprising a strap member, cross bars on one end thereof terminating in inwardly disposed flanges extending substantially parallel to said strap forming a clamp member, a second clamp member slidably disposed on said strap for varying the distance between said clamp members, lug means on said second clamp member adapted to engage said strap member for preventing slidable movement thereon, and flexible cable means locking said second clamp member to said strap member to permit said second clamp member to be pivoted about said strap member in a plane parallel to the plane of said strap member to engage and disengage said lug means with said strap member, said flexible cable means having a free end detachably locked to said second clamp member.

8. Locking means for skis and the like comprising a flat strap member, crossbars on one end thereof having inwardly extending flanges forming a first clamp member, said strap member having spaced notches therein, a second clamp member slidably disposed on said strap member for varying the distance between said clamp members, lug means on said second clamp member adapted to be engaged in one of said notches to prevent slidable movement of said second clamp member, said strap member having a slot therein, cable means having one end threaded through said slot and secured to said second clamp member and pivotally connecting said second clamp member to said strap member in a plane parallel to the plane of said strap member, means for locking said lug means in one of said notches and another end of said cable means to said second clamp member.

9. A device for securing skis and the like comprising a flat strap member, a first clamp member on one end thereof, a U-shaped clamp member slidably disposed on said strap member and having the legs of the U-shaped clamp member enclosing the opposite sides of said strap member, said strap member having spaced notches therein, lug means on said U-shaped clamp member adapted to engage in one of said notches to adjust the distance between said clamp members, loop means for locking said U-shaped clamp member to said strap member and permitting said U-shaped member to be pivoted with respect to said strap member in a plane parallel to the plane of said strap member, and other means for securing said device about a fixed member.

10. The device of claim 9 wherein said other means comprises a flexible cable with one end secured to said loop means and the other end of said flexible cable having another loop secured to said U-shaped member.

11. A device for securing skis and the like comprising a flat strap, outwardly extending cross bars disposed on one end thereof, inwardly extending flanges disposed on said cross bars, said strap having a plurality of spaced notches therein opposite said cross bars, a clamp member slidably disposed on said strap, lug means on said clamp member for insertion in one of said notches to prevent sliding of said clamp member on said strap, another crossbar and other flanges disposed on said clamp member, said other flanges extending toward said first mentioned flanges to hold an object therebetween, there being a longitudinal slot in said strap below said notches, said clamp member having openings therein in alignment with said slot, a flexible cable having an end threaded through one of said openings and said slot securing it to said clamp member, and a padlock threaded through another of said openings, said slot, and another end of said cable, to fix said clamp member with respect to said strap, and detachably lock said cable thereto, to permit the device to be secured about a fixed object.

12. A device for securing skis and the like comprising a flat strap, outwardly extending crossbars disposed on one end thereof, inwardly extending flanges disposed on said crossbars, said strap having a plurality of spaced notches therein opposite said crossbars, a clamp member slidably disposed on said strap, lug means on said clamp member for insertion in one of said notches to prevent sliding of said clamp member on said strap, another crossbar and other flanges disposed on said clamp member extending toward said first mentioned flanges to hold an object therebetween, there being a longitudinal slot in said strap below said notches, said clamp member having openings therein in alignment with said slot, a closed ring threaded through one of said openings and said slot securing said clamp member to said strap, and a padlock threaded through another of said openings and said slot, to fix said clamp member on said strap a predetermined distance from said first mentioned crossbar to lock a pair of skis together therebetween.

13. A device for securing skis and the like comprising a flat strap, outwardly extending crossbars disposed on one end thereof, inwardly extending flanges disposed on said crossbars, said strap having a plurality of spaced notches therein opposite said crossbars, U-shaped member slidably disposed on said strap, a downwardly extending lug on said U-shaped member for insertion in one of said notches to prevent sliding of said U-shaped member on said strap, another crossbar and another

flange disposed on each leg of said U-shaped member, said other flanges extending toward said first mentioned flanges to hold an object therebetween, there being a longitudinal slot in said strap below said notches, the legs of said U-shaped member having openings therein in alignment with said slot, a closed ring threaded through one of said openings and said slot securing it to said U-shaped member, and a padlock threaded through another of said openings and said slot, to fix said U-shaped member with respect to said strap a predetermined distance from said first mentioned crossbar to lock a pair of skis together therebetween.

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