April 1, 1941. J. L. DINSMOOR 2,236,676

SEALABLE BAG TIES

Filed Oct. 22, 1940

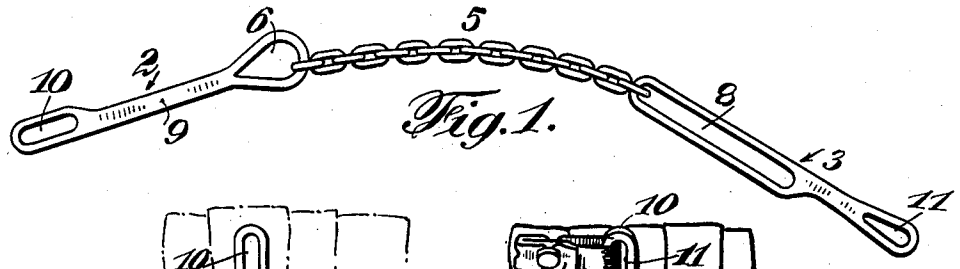


Fig. 1.

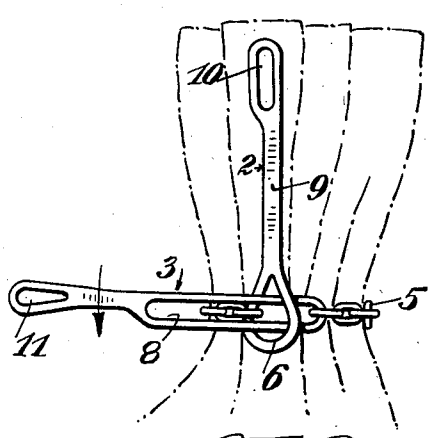


Fig. 2.

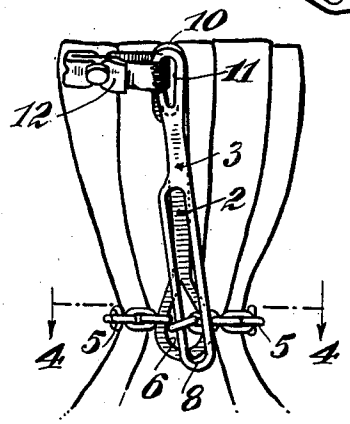


Fig. 3.

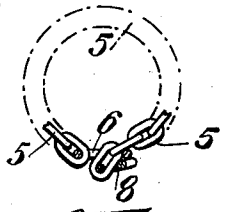


Fig. 4.

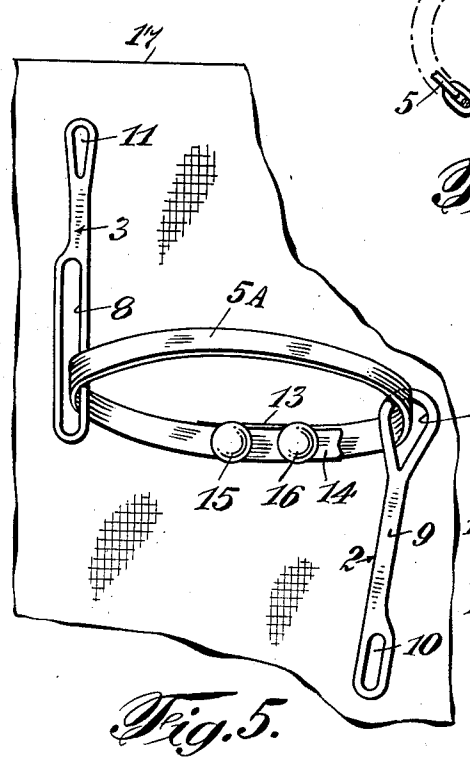


Fig. 5.

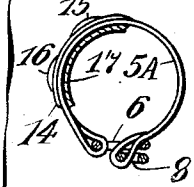


Fig. 7.

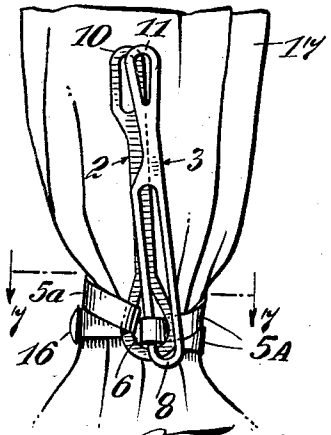


Fig. 6.

INVENTOR
John L. Dinsmoor
BY
Wilbur M. Stone
his ATTORNEY

Patented Apr. 1, 1941 2,236,676

UNITED STATES PATENT OFFICE

2,236,676

SEALABLE BAG TIE

John L. Dinsmoor, New York, N. Y., assignor of forty per cent to John Hassall, Inc., Brooklyn, N. Y., a corporation of New York

Application October 22, 1940, Serial No. 362,238

4 Claims. (Cl. 24—30.5)

This invention relates to sealable bag ties and has for its object to provide a device of the class described, simple in construction, easily applied and adapted to be sealed by any one of a number of known seals. Other objects will appear later herein.

My improvements comprise features illustrated in their preferred embodiment in the drawing accompanying this specification, wherein:

Figure 1 is a plan view of my device spread out in elongated position.

Fig. 2 is an elevation of the device wrapped about the neck of a bag, shown in dot and dash lines, with the device partly assembled about the bag neck.

Fig. 3 is a view similar to that of Fig. 2 showing the device fully assembled about the bag neck and sealed by a sheet metal seal of known construction.

Fig. 4 is a cross section of the device on line 4—4 of Fig. 3.

Fig. 5 is an elevation of a modified form of my improved device, in which a portion of the device is attached to the neck of the bag.

Fig. 6 is an elevation of the modification of Fig. 5 showing the device wrapped about the neck of the bag, and assembled ready to receive the locking seal.

Fig. 7 is a section on line 7—7 of Fig. 6.

The scale of all the figures is the same and may be approximately full size.

Referring now more particularly to the drawing my improved sealable bag tie comprises two relatively long members 2 and 3 each provided with an eye at either end and said members 2 and 3 are connected together by a flexible member such as a chain 5 in engagement with adjacent eyes 6 and 8 of members 2 and 3 respectively. Said members 2 and 3 may be stamped out of sheet material as shown, or produced by any other convenient known means.

While members 2 and 3 may be of the same length, I preferably make member 3 somewhat longer than member 2 for reasons which will appear later herein.

The opening 6 in eye 2 is of sufficient size to permit the free passage of member 3 and the length of eye 8 of member 3 is relatively long. At the outer ends of members 2 and 3 are eyes 10 and 11 respectively similar in size, and they may be greater in length than in width to suitably accommodate a sheet metal seal as 12 of Fig. 3.

In the modification of Figs. 5, 6 and 7, the connecting element 5A may be formed of some flexible material such as leather or stout tape, the ends 13, 14 of which may be fastened together by rivets as 15, 16 and which rivets may also serve to attach the element 5A to the bag, thus permanently positioning the device relative to the top or mouth of the bag and preventing the device from being separated from the bag.

The method of assembling the device about the neck of the bag will be understood by reference to Figs. 1 and 2. In Fig. 1 the chain 5 is wrapped about the neck of the bag and member 3 is thrust through the large eye 6 of member 2 and drawn tight to close the bag mouth, then by pressing the outer end of member 3 downwardly, suitable leverage is obtained and chain 5 is pulled tightly about the back neck. Then member 3 is brought up in parallelism with member 2, as shown in Fig. 3, with eyes 10 and 11 side by side, ready to receive the seal 12.

As illustrated, member 3 is slightly longer than member 2, so that when eyes 10, 11 are brought into coincidence, as shown, the lower end of eye 8 extends across the opening of eye 6 of member 2 thereby providing a locking action for chain 5.

The method of assembling the modification of Figs. 5, 6 and 7 is similar to that described for Figs. 2, 3 and 4, ears 10 and 11 being brought into cooperative positions as shown in Fig. 6, ready to receive the seal.

The term bag as herein used will be understood to include a box, bale, bag or other article or container adapted to be encircled and sealed.

I claim:

1. A device of the character described including in combination two relatively long members, one of said members being provided with a relatively long eye at one end, the other of said members being provided at one end with an eye of sufficient size to permit the free passage of the other member, and a flexible member connecting the large eye of one member with the relatively long eye of the other member, said members at their free ends each having means for cooperating with each other to receive a seal.

2. A device of the character described including in combination two relatively long members, one of said members being provided with a relatively long eye at one end, the other of said members being provided at one end with an eye of sufficient size to permit the free passage of the other member, a flexible member connecting the large eye of one member with the relatively long eye of the other member, said members at their free ends each having means for cooperating with each other to receive a seal and said

member with the relatively long eye being longer than the other member.

3. A device of the character described including in combination two relatively long members, each provided with an eye at either end, one of said members having one of its eyes of sufficient size to permit the free passage of the other member, one of the eyes in said other member being relatively long, a flexible member connecting the large eye of one member with the relatively long eye of the other member, and said members at their free ends, each having a relatively small eye, said small eyes being adapted to be brought together when the device is in operative position, for the reception through both eyes of a seal.

4. A device of the character described including in combination two relatively long members, each provided with an eye at either end, one of said members having one of its eyes of sufficient size to permit the free passage of the other member, one of the eyes in said other member being relatively long, a flexible member connecting the large eye of one member with the relatively long eye of the other member, said member with the relatively long eye, being longer than the other member and said members at their free ends, each having a relatively small eye, said small eyes being adapted to be brought together when the device is in operative position, for the reception through both eyes of a seal.

JOHN L. DINSMOOR.