May 19, 1953 S. M. MOBERG 2,639,181

BAG SEAL

Filed June 6, 1951

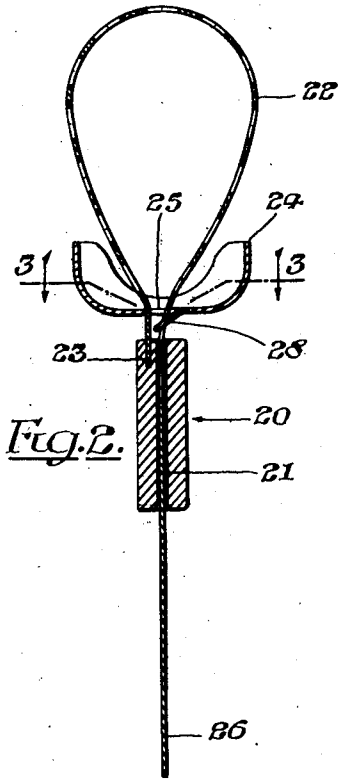


Fig. 2.

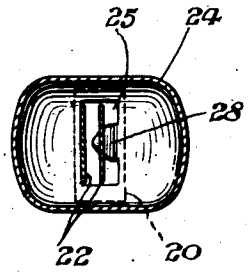


Fig. 3.

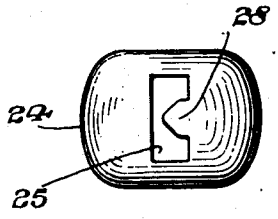


Fig. 4.

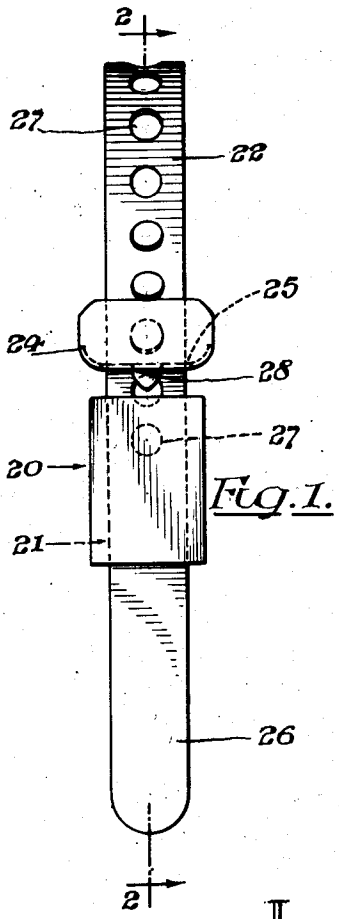


Fig. 1.

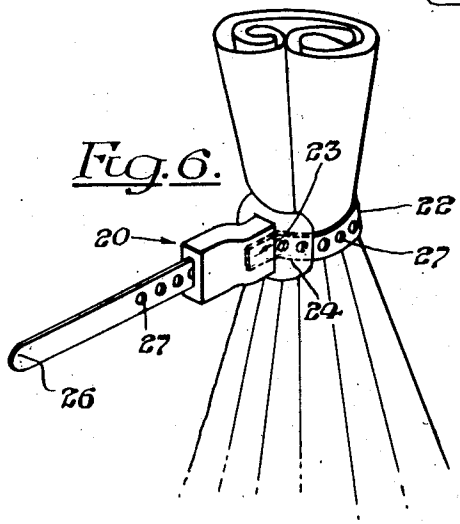


Fig. 6.

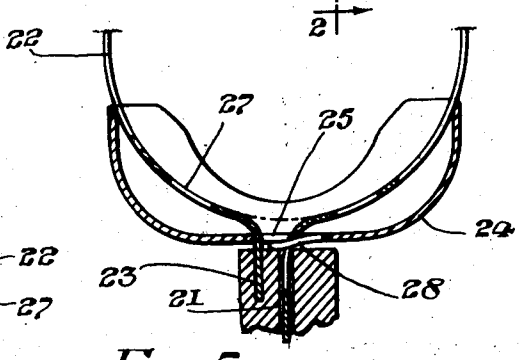


Fig. 5.

Inventor:
Sigurd Manfred Moberg
by his Attorney
Axel Beerken

Patented May 19, 1953 2,639,181

UNITED STATES PATENT OFFICE

2,639,181

BAG SEAL

Sigurd Manfred Moberg, Pompton Plains, N. J., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey

Application June 6, 1951, Serial No. 230,140

3 Claims. (Cl. 292—315)

1

The present invention relates to a seal for bags, such as those in which coins are shipped to banks. These bags are made of flexible material and require to be closed by means that encircle the mouth of the bag, after which a sealing member of compressible material is deformed to lock or seal the means that encircle the mouth of the bag. Heretofore, a strand, usually of fibrous material, has been employed as the bag-encircling means. The main object and feature of this invention is to produce a structure in which a flat ribbon-like sheet-material member can be utilized as the bag-encircling means.

In the accompanying drawings, the invention is shown in a concrete and preferred form, in which:

Fig. 1 is a view in side elevation of a seal embodying a preferred form of the invention;

Fig. 2 is a vertical sectional view, substantially on the plane of line 2—2 of Fig. 1;

Fig. 3 is a horizontal sectional view, substantially on the plane of line 3—3 of Fig. 2;

Fig. 4 is a bottom plan view of the guard-member;

Fig. 5 is an enlarged view of parts of Fig. 2; and

Fig. 6 is a perspective view showing the seal applied to a bag.

20 indicates a sealing-member of relatively compressible material such as lead, said sealing-member being provided with a longitudinal slot 21 open at both ends. 22 indicates a flat ribbon-like sheet-material member of relatively non-tearable material such as steel. Member 22 is anchored at one end 23 in said sealing-member, the anchoring operation being preferably performed by imbedding the sheet-material member in the sealing-member during the process of molding or casting the latter. 24 is a guard-member, of relatively non-compressible material, interposed between the bag and the sealing-member, and is provided with an opening 25, here of rectangular shape, slightly wider than the width of sheet-material member 22. Sheet-material member 22 has its free end 26 threaded through opening 25 of guard-member 24, is formed into a loop, and is then threaded back again through said opening 25, and then through and out of slot 21 of sealing-member 20.

The bag-encircling loop of sheet-material member 22 is now passed around the mouth of the bag, and is then tightened by pulling on its free end 26 until the mouth of the bag is properly constricted. It now remains to deform sealing-member 20 so as to complete the sealing operation. However, there is a momentary interval between the completion of the pull on free end 26 and the act of deforming the sealing-member, and, owing to the slippery material of which the sealing-member and the sheet-material member are made, there is a tendency for the sheet-material member to be retracted out of slot 21 in the sealing-member. To overcome this, means are provided to prevent such retraction out of the slot of said sealing-member, before said sealing-member is deformed, such means including a detent-and-perforation connection between said guard-member and said sheet-material member. Said sheet-material member is therefore provided with one or more perforations 27. As a matter of fact, there is, in this case, a longitudinal series of perforations so that the seal may be applied to different sizes of bags. 28 indicates a detent, carried by guard-member 24, arranged adjacent to opening 25 of the guard-member. As indicated previously, opening 25 of the guard-member is slightly wider than the width of sheet-material member 22, and the other dimension of said opening 25 is such that the guard-member can be tilted on the sheet-material member, and held by the finger of the operator, so as to prevent detent 28 from entering any of the perforations 27 until the loop has been tightened sufficiently around the bag, at which time said detent 28 will enter a perforation 27 and will thereby prevent retraction or part withdrawal of the sheet-material member out of the slot, thereby enabling the operator to deform the sealing-member and thus finish the sealing operation.

2

I claim:

1. In a bag seal, a sealing-member of compressible material having an interior slot, open at both ends; a sheet-material member of non-tearable material, to be formed into a bag-encircling loop, having one end anchored in the sealing-member, its other end to be passed through and out of the slot of said sealing-member; a guard member to be interposed between the bag and said sealing-member, said guard-member having an opening through which said sheet-material member passes; and means to prevent retraction of said sheet-material member out of the slot of said sealing-member, before the latter is deformed, including a detent-and-perforation connection between said guard-member and said sheet-material member.

2. In a bag seal, a sealing-member of compressible material having an interior slot, open at both ends; a sheet-material member of non-tearable material, to be formed into a bag-en-

circling loop, having one end anchored in the sealing-member, its other end to be passed through and out of the slot of said sealing-member, said sheet-material member having a perforation; and a guard-member to be interposed between the bag and said sealing-member, said guard-member having an opening through which said sheet-material member passes, said guard-member having a detent adjacent its opening to engage the perforation in said sheet-material member.

3. In a bag seal, a sealing-member of compressible material having an interior slot, open at both ends; a sheet-material member of nontearable material, to be formed into a bag-encircling loop, having one end anchored in said sealing-member, its other end to be passed

through and out of the slot of said sealing-member, said sheet-material member having a longitudinal series of perforations; and a guard-member to be interposed between the bag and said sealing-member, said guard-member having an opening through which said sheet-material member passes, said guard-member having a detent adjacent its opening to engage a perforation in said sheet-material member.

SIGURD MANFRED MOBERG.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
1,751,839	Moskovits	Mar. 25, 1930
2,262,840	Gibson et al.	Nov. 18, 1941