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H. L. ROGERS

2,107,216

RECEPTACLE AND CLOSURE THEREFOR

Filed April 22, 1936

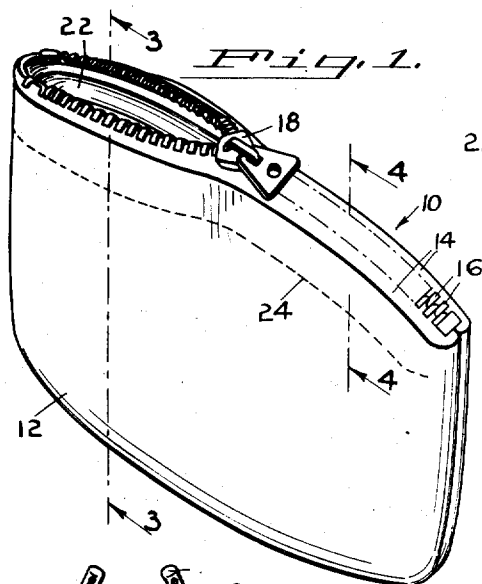


Fig. 1.

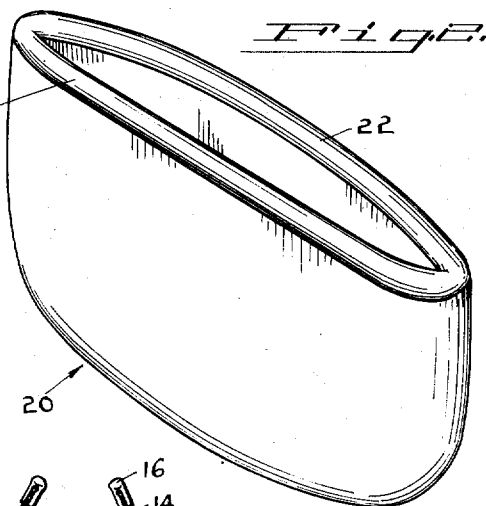


Fig. 2.

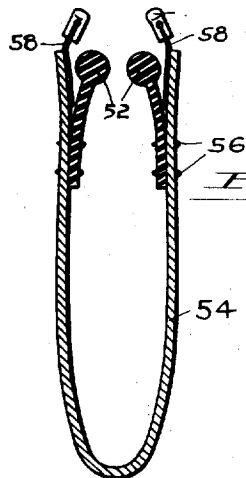


Fig. 3.

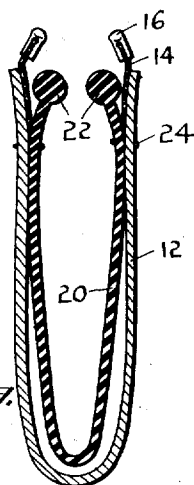


Fig. 4.

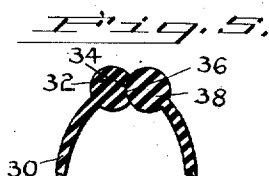


Fig. 5.

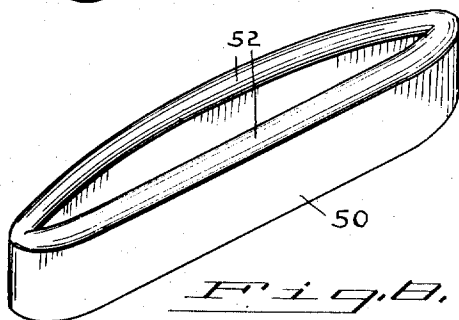


Fig. 6.

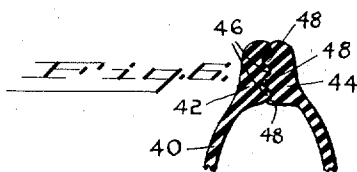


Fig. 7.

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2,107,216

RECEPTACLE AND CLOSURE THEREFOR

Harry L. Rogers, Brooklyn, N. Y.

Application April 22, 1936, Serial No. 75,767

1 Claim. (Cl. 150—3)

The present invention relates to closures of the slide-fastener type and, more particularly, to means for providing certain articles, especially tobacco pouches and other receptacles, with means for sealing the openings therein.

Closures of the slide-fastener type comprise opposed fabric strips or tapes, usually called stringers, to which are attached, at the marginal portions thereof, interlocking elements which are caused to be engaged with and disengaged from each other by the operation of a sliding cam moved longitudinally of the stringers for fastening and unfastening the closure. Due to the fact that the interlocking elements are arranged in spaced relation, the openings in receptacles or other articles provided with such fasteners are not fluid tight. In accordance with the present invention, the receptacle or other article having such closure is provided with means for sealing the receptacle or other article opening when the slide fastener is operated to close said opening.

Briefly described, the present invention resides in providing the article with an auxiliary closure which, especially in the case of tobacco pouches and other receptacles, is disposed inwardly of the receptacle adjacent the slide fastener stringers in such manner as to be automatically opened and closed by the slide fastener as the latter is opened and closed by operation of the slider cam. In the case of tobacco pouches and other receptacles which are provided with waterproof lining such as rubber or rubberized fabrics, the auxiliary closure is disposed at the edges of the lining adjacent the receptacle opening and is in the form of sheet material having beaded edges extending longitudinally of the slide fastener stringers adjacent to and overlapping the latter inwardly of the interlocking elements.

Another object of the present invention is to provide tobacco pouches or other receptacles with linings in the form of containers of molded rubber whereby said containers are devoid of any seams and the beaded edges for providing the auxiliary closure are formed integral with the container thereby obviating the necessity for stitching the auxiliary closure to the inner container, and at the same time providing a very effective moisture sealing closure.

The above objects of the invention and other objects which might hereinafter appear will best be understood from the following description considered in connection with the accompanying drawing:

In the drawing:

Fig. 1 is a perspective view of a tobacco pouch embodying the present invention;

Fig. 2 is a perspective view of a molded rubber container or lining with which the tobacco pouch is provided;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1;

Fig. 4 is a sectional view on the line 4—4 of Fig. 1;

Figs. 5 and 6 are views similar to Fig. 4, illustrating modifications of the present invention;

Fig. 7 is a view similar to Fig. 3, illustrating a further modification;

Fig. 8 is a perspective view of the closure employed in the construction illustrated in Fig. 7.

Referring to the drawing in detail, the tobacco pouch 10 comprises a receptacle 12 which may be made of leather, cloth, or of any other suitable material. The slide fastener stringers 14 carrying interlocking elements 16 are attached to said receptacle at the opening therein in the usual manner for operation by the slider cam 18 for fastening and unfastening the closure. An inner container 20 is made of molded rubber and is provided with integral-molded, solid-beaded edges 22 which are positioned adjacent the opening in the container 12 in overlapping relation to the stringers 14. As here shown, said inner container 20 is secured in position by a line of stitching 24, but instead of being stitched to the receptacle 12, said container may be adhesively secured in position. It will be observed that the beaded edges 22 extend longitudinally of the stringer and are caused to engage each other progressively longitudinally of the container and receptacle openings automatically as the slider cam 18 is moved longitudinally of the stringers for engaging the interlocking elements thereof when closing the receptacle opening. Conversely, when the slider cam 18 is moved in the reverse direction for disengaging the interlocking elements for opening the receptacle closure, said beaded edges are disengaged from each other for opening the container 20.

In the forms of the invention illustrated in Figs. 5 and 6, the beaded edges of the auxiliary closure are designed with the view of improving the sealing of said auxiliary closure when the beaded edges are in engagement. For this purpose, said beaded edges are provided with grooves and ribs, respectively, which engage each other in interfitting relation. For example, as shown in Fig. 5, the beaded edge 32 of the inner container 30 is provided with a concave or grooved surface 34 which receives the convex or ribbed surface 36 of the beaded edge 38 when said beaded edges are in sealing engagement. As illustrated in Fig. 6, the inner container 40 is provided with beaded edges 42 and 44 having a plurality of interfitting grooves and ribs 46 and 48, respectively. It will be understood that the inner containers 30 and 40 may be in other respects the same as the inner container 20 hereinbefore described and, like the latter, are preferably made of molded rubber with the molded

beaded edges solid and integral with the container.

In the form of the invention illustrated in Figs. 7 and 8, the auxiliary closure, instead of being part of an inner container or lining, comprises an annular band 50 having beaded edges 52 which may be similar in all respects to the beaded edges 22 in the construction illustrated in Figs. 1 to 4. As illustrated in Fig. 7, said band is secured to the receptacle 54 by lines of stitching 56 adjacent the opening in said receptacle. Said beaded edges 52 are disposed in overlapping relation to the stringers 58 whereby said edges are brought into sealing relation when the slider fastener is operated to fasten the receptacle closure. It will be understood that the beaded edges may comprise interengaging surfaces such as those illustrated in Figs. 5 and 6. It will be understood also that in lieu of the annular band 50, said beaded edges may be provided on separate strips secured in substantially the same way as the band 50 to the opposite side walls of the receptacle 54 and in the position extending longitudinally of the stringers. If desired, the lower end of the band 50 may be stitched or cemented to a pouch lining of any suitable material such as sheet rubber or rubberized or other waterproof fabric.

Thus it is seen that the several constructions herein shown or described are well adapted to accomplish the objects of the present invention. It will be understood, however, that while I have illustrated the auxiliary closure in association

with a tobacco pouch, said closure may be utilized in connection with other receptacles and articles. It will also be appreciated that the constructions herein shown or described are not exhaustive of the embodiments of the invention and that on the contrary the invention may be embodied otherwise than as here shown or described, and that the several constructions herein illustrated may be modified without departing from the spirit of the present invention. Therefore, I do not wish to be limited to the present disclosure except as may be required by the appended claim considered with reference to the prior art.

Having thus described my invention, what I claim and desire to secure by Letters Patent of the United States is:

A flexible walled receptacle comprising lips forming an opening, a slidable closure for said opening, an inner moisture proof relatively thin liner for said receptacle having an opening corresponding with said lips and an integral deformable resilient relatively thick sealing means about said liner opening including cooperating portions, said liner being fastened to the receptacle adjacent said lips, said sealing means being so constructed and formed as to normally be open and so tend to spread said lips apart when said slidable closure is in open or partially open position, and to effect a seal by relatively tightly bringing together the said cooperating portions of said resilient sealing means when said slidable closure is moved to closed position.

HARRY L. ROGERS.

DISCLAIMER

2,107,216.—*Harry L. Rogers*, Brooklyn, N. Y. RECEPTACLE AND CLOSURE THEREFOR. Patent dated February 1, 1938. Disclaimer filed May 26, 1939, by the patentee.

Hereby enters this disclaimer to that part of the claim in said specification, to the effect that the claim is to be further limited by being interpreted as to include the following:

"said relatively thin liner and said integral thick sealing means being of molded rubber, said lips being solid and extending completely around the ends connecting one side to the other whereby sealing is effected at their ends as well as along the sides, the thick lips relatively incapable of failure, and the liner generally reinforced at the ends."

[Official Gazette June 27, 1939.]

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[Official Gazette June 27, 1939.]