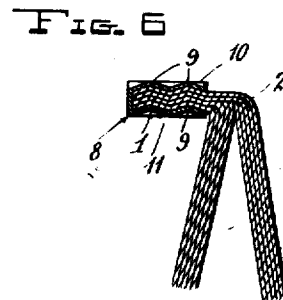
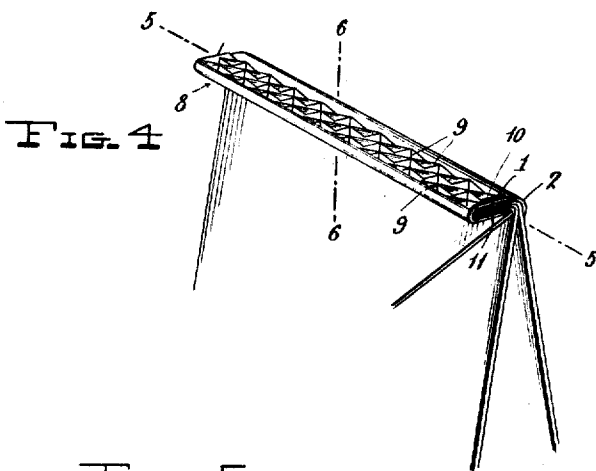
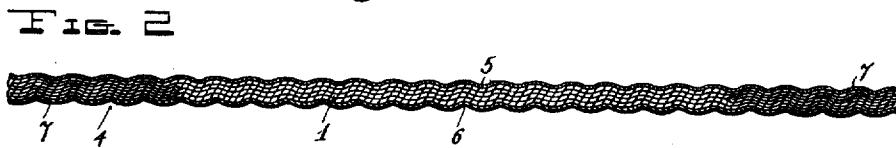
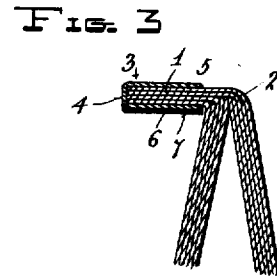
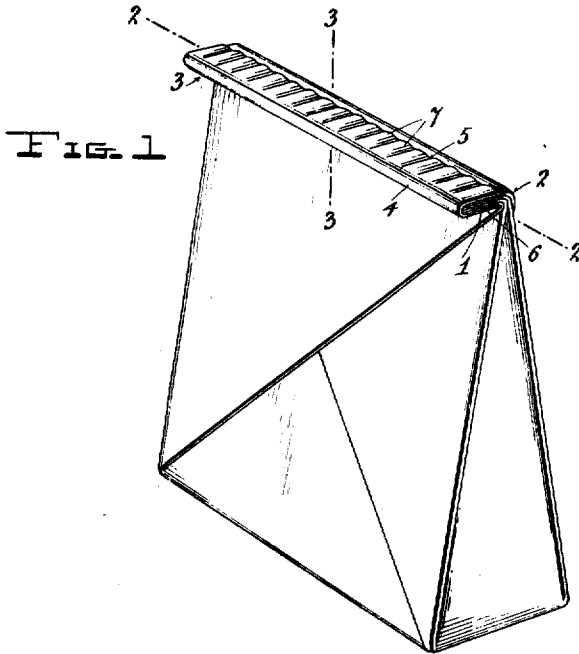


A. S. NICO.
SEALED RECEPTACLE.
APPLICATION FILED JULY 17, 1916.

1,310,247.

Patented July 15, 1919.



Witnesses
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UNITED STATES PATENT OFFICE.

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SEALED RECEPTACLE.

1,310,247.

Specification of Letters Patent.

Patented July 15, 1919.

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To all whom it may concern:

Be it known that I, ANDREW S. NICO, a citizen of the United States, residing at Le Roy, in the county of Genesee and State of New York, have invented new and useful Improvements in Sealed Receptacles, of which the following is a specification.

My present invention relates to improvements in sealed receptacles of the type adapted to provide a moisture-proof inclosure for powdery or other material, and the object of the invention is to provide an improved seal for the receptacle which comprises a clip of metal or other rigid material which is folded over the edges of the mouth of the receptacle and is corrugated, indented, or otherwise shaped after its application to the mouth of the receptacle so as to not only firmly secure or retain the clip upon the receptacle but to also produce corresponding corrugations or indentations in the lapped edges of the receptacle, which corrugations or indentations will perfect an efficient moisture-tight seal which will not only prevent entrance of moisture to the receptacle but will also effectually retain the contents within the receptacle.

To these and other ends, the invention consists in certain improvements, and combinations and arrangements of parts, all as will be hereinafter more fully described, the novel features being pointed out particularly in the claim at the end of the specification.

In the accompanying drawing:—

Figure 1 is a perspective view showing a seal constructed in accordance with one embodiment of the present invention.

Fig. 2 represents a section taken longitudinally of the seal and on the line 2—2 of Fig. 1.

Fig. 3 represents a section taken transversely through the seal on the line 3—3 of Fig. 1.

Fig. 4 is a perspective view of the upper portion of a receptacle provided with a seal constructed in accordance with another embodiment of the invention.

Fig. 5 represents a longitudinal section of the seal taken on the line 5—5 of Fig. 4, and

Fig. 6 represents a transverse section of the seal on the line 6—6 of Fig. 4.

Similar parts are designated by the same reference characters in the several views.

The present invention is applicable gener-

ally to receptacles of various kinds adapted for use where it is desirable or necessary to provide a closure which will confine the contents within the receptacle and which will effectually seal the contents from moisture or atmospheric influences. The invention is particularly applicable to a receptacle of the type shown in Letters Patent, No. 1,101,430, granted June 23, 1914, to Otis E. Glidden and myself. The seal forming the subject-matter of the present invention is shown applied to a receptacle of the type shown and described fully in that patent. It is to be understood, however, that the invention is not restricted in its use to receptacles of the specific type referred to, and also that the invention is not restricted to the precise constructions of seals shown herein, as equivalent seals are contemplated and will be included within the scope of the claim.

In the present instance the receptacle is in the form of the so-called "satchel bottom" bag. This bag is made up preferably in the manner described in the patent hereinbefore referred to, it being sufficient for the present purposes to say that it is made from a sheet of paper or other suitable material which is folded to form the bottom or the space for the contents, and the margins of the sheet are all brought together so as to extend in a line across the top of the bag, thus forming the mouth thereof. Materials of different kinds may be used in making the receptacle. It is generally preferable, however, to employ a material which is impervious to moisture such, for example, as paper coated or treated with paraffin or wax. To avoid difficulties in the manufacture of receptacles of this kind by machinery, it is preferable to employ a paper which is coated with paraffin or wax on one side and to so form the receptacle that the wax-coated side thereof will be at the inner side of the receptacle.

The seal, according to the present invention, is applied to and made upon the bag after the contents have been introduced into the bag or receptacle. The margins of the paper or material composing the receptacle and which extend in a line across the mouth of the receptacle are bent laterally, after the contents have been introduced into the bag, these laterally bent margins of the paper forming a laterally directed portion which is composed of the lapped margins

surrounding the mouth of the receptacle. Preferably this laterally directed portion 1 is subjected to compression and the corner 2 which joins this laterally bent portion to the body of the bag is also bent sharply and subjected to compression to form a sealing corner.

The sealing device in the embodiment shown in Figs. 1-3 inclusive comprises a clip 3 of rigid or substantially rigid material, sheet metal being generally preferable. As shown, this sealing device is formed by doubling a strip or sheet of metal or other material to form an intermediate bend 4 and upper and lower wings 5 and 6. The sealing device is applied to the laterally directed portion 1 of the bag during the course of the bag or receptacle through the machine, the clip or sealing device being preferably of a length corresponding to the length of the laterally directed portion 1 of the bag, and it is so applied thereto that the upper and lower wings 5 and 6 of the sealing device will engage the upper and lower sides of the laterally directed portion 1, the intermediate or doubled portion 4 of the sealing device abutting against the free edge of the portion 1. While the clip or sealing device is in this position it is subjected to the action of corrugated compressing jaws which operate upon the wings 5 and 6, forming corrugations 7 in these wings, and by the same operation compressing and forming corresponding corrugations in the layers of material composing the laterally directed portion 1 of the bag. These corrugations preferably extend in a direction transversely of the length of the clip or the portion 1 of the receptacle and they serve not only to rigidly maintain the wings 5 and 6 of the clip under compression against the upper and lower sides of the laterally directed portion 1 of the receptacle, but these corrugations also positively maintain the corrugations in the layers of paper or material composing the laterally bent portion 1. Where, as in the present instance, these lapped layers of paper or material are coated with wax, the corrugations in such layers, in conjunction with the maintenance of pressure upon these layers, produce an intimate contact between the layers of paper, for the reason that the wax coating on these layers of paper is caused by the compression of the corrugations to produce an exact conformity between the lapped layers of paper which will completely close the mouth of the bag to exclude moisture and to retain the contents in the bag. The

rigidity of the clip maintains the seal effectually.

In the embodiment of the invention shown in Fig. 4-6 inclusive, a clip 8 of metal or other rigid material is applied to the laterally directed portion 1 of the bag, as in the preceding instance, but in this case the clip and also the lapped layers of paper composing the laterally bent portion 1 are subjected to a compression between jaws having crossed serrations thereon, producing corresponding crossed serrations 9 on the upper and lower wings 10 and 11 of the clip, and by the same operation the layers of paper or material composing the laterally bent portion 1 are correspondingly compressed and formed with these crossed serrations. In this instance also the crossed serrations on the upper and lower wings of the clip not only stiffen these wings, but they also maintain sharply the serrations in the layers of paper forming the laterally directed portion 1 of the bag and where, as in the present instance, these lapped layers of paper are coated with paraffin or wax, the formation of these serrations causes intimate correspondence between the lapped layers of paper, excluding moisture and retaining the contents within the receptacle.

In both embodiments shown, the free edges of the wings of the clip terminate in immediate proximity to the sealing corner 2. The clips therefore serve to maintain the layers of wax-coated paper in intimate contact at this sealing corner, and the clips also prevent relative displacement of the layers of paper, to the end that the seal is effectually maintained.

I claim as my invention:—

A paper receptacle having the material at the mouth thereof lapped and bent laterally at a sharp angle to form a sealing corner, and a clip of rigid material fitted over the free edge of the lapped laterally bent portions of the material, said lapped portions of the material and the clip having corresponding and registering corrugations, the corrugations in the rigid material of the clip serving to permanently maintain the corrugations in the lapped portions of the paper receptacle to prevent relative slipping of the plies of said lapped portions.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ANDREW S. NICO.

Witnesses:

J. G. GILFILLAN,
F. A. WILSON.