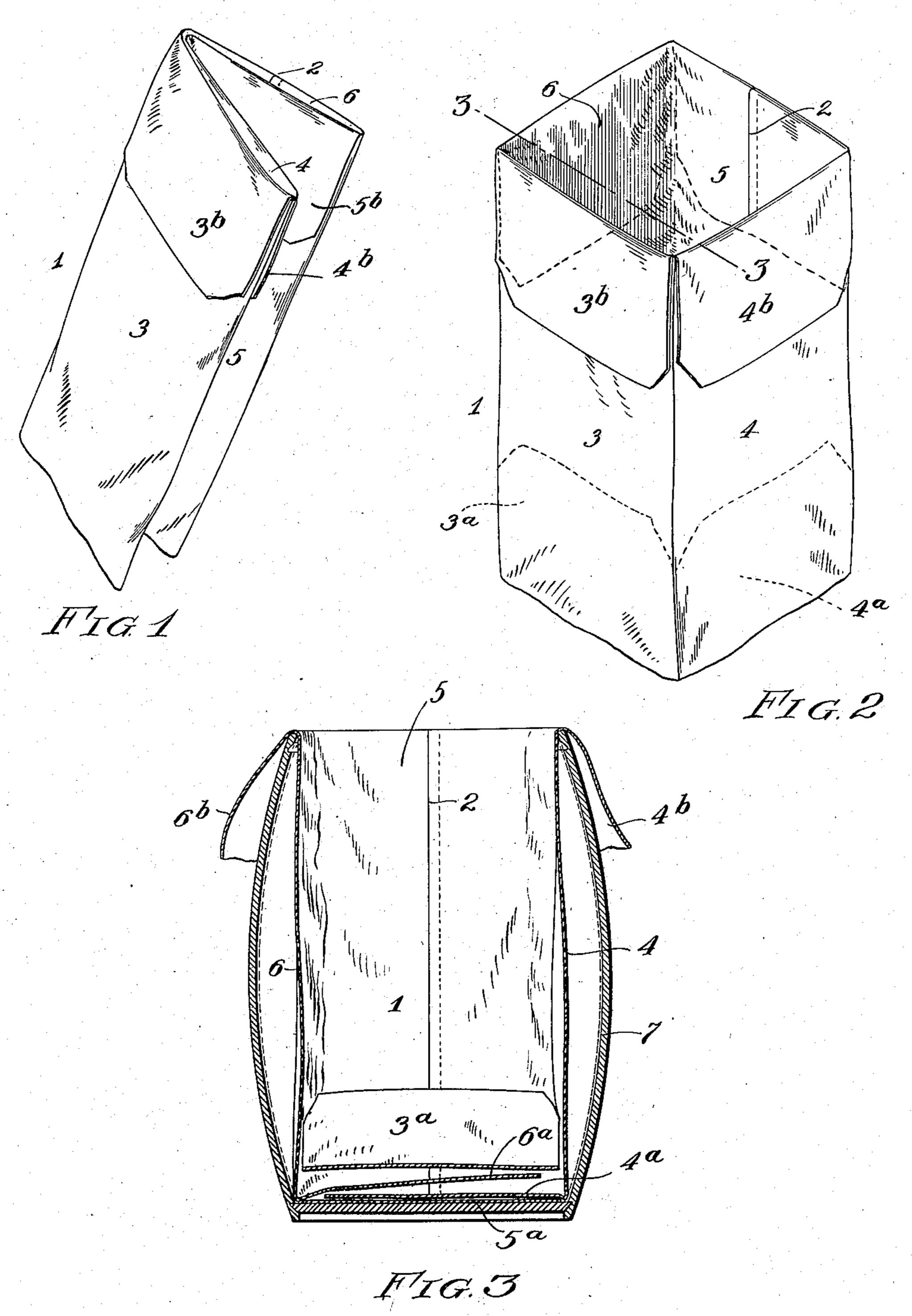
T. SCHERF.

LINING FOR BARRELS AND OTHER LIKE CONTAINERS.

APPLICATION FILED NOV. 9, 1908.

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WINNESSES: Nathan F. Fretter. W. L. M. Jairell Theodore Scherf, By Dales, Fints Whill, ATTY 5.

UNITED STATES PATENT OFFICE.

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LINING FOR BARRELS AND OTHER LIKE CONTAINERS.

936,817.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Theodore Scherf, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and 5 State of Ohio, have invented a certain new and useful Improvement in Linings for Barrels and other Like Containers, of which the following is a full, clear, and exact description, reference being had to the accom-10 panying drawings.

This invention relates to linings for receptacles, and more particularly to linings for barrels, kegs, casks, boxes and other like con-

tainers.

Among the objects of the invention are the production of a lining which may be readily applied to the receptacle with which it is to be employed and which, when so applied, will be efficient in preventing the escape of

20 the contents of the receptacle.

ble material which shall be economical of production, convenient of application to and 25 removal from a barrel or other receptacle with which it may be associated and which will dispense with the necessity of applying a separate bottom and top to the lining.

Generally speaking, the invention may be 30 defined as consisting of the combinations of elements embodied in the claims hereto annexed and illustrated, in one embodiment, in the drawings forming a part hereof,

wherein—

Figure 1 represents a perspective view of a lining showing the same in folded condition prior to insertion into its receptacle; Fig. 2 represents a similar view of the lining, showing the same unfolded, and Fig. 3 40 represents a sectional view of a barrel having my lining applied thereto, the section line 3—3 of Fig. 2.

In constructing my improved lining I take 45 a sheet of paper, preferably paper that has been softened to render the same pliable. and form the same into a tube by securing the edges of the same together in any suitable manner, as by pasting or gluing the

50 same.

The tube is divided peripherally into a number of parts and the top and bottom of the tube are slitted to form flaps therefrom. In the embodiment of the invention shown 55 herein, the periphery of the tube is divided

into four equal parts, and four flaps are formed at the top and at the bottom of the tube, the slits by which the corresponding top and bottom flaps are formed being in the same straight line extending substan- 60 tially parallel with the axis of the tube. The flaps at what will be the bottom of the tube are folded upwardly inside of the tube, while the flaps which are at what will be the top of the tube are folded outwardly. For 65 convenience of packing and of application to the articles with which it is to be employed, the lining is then folded longitudinally into four equal parts, the folds being formed in such manner as to connect the 70 corresponding slits between the flaps at the top and at the bottom of the tube, as shown more particularly in Figs. 1 and 2.

Describing the parts by reference characters, 1 represents the tubular lining here- 75 Further objects of the invention are to inbefore referred to, and 2 the seam at which provide a lining of paper or analogous flexi- the edges of the lining blank are united, as the edges of the lining blank are united, as by means of paste. As shown herein, the tube is divided into four longitudinally extending sections, said sections being desig- 80 nated by the numerals 3, 4, 5 and 6, and each section being provided at its bottom with a corresponding flap 3a, 4a, 5a and 6a respectively, and at its upper end with an outwardly and downwardly turned flap 3b, 4b, 85 5^b and 6^b, respectively, said flaps being formed by means of longitudinal slits at the bottom and top of the tube. For convenience of folding, these flaps will have their free ends beveled at the corners, as shown in 90 the drawings.

Where the lining is intended for a barrel. as shown at 7, the perimeter of the tube will be substantially equal to the inner perimeter of the central or bilge portion of the barrel. 95 The lining being of softened pliable paper, through the lining being taken on about the | the top and bottom thereof will accommodate themselves to the contracted space occupied thereby, while the middle portion will, when material is placed therein, con- 100 form in contour to the inner contour of the barrel and will fit against the inner surface of the barrel, as indicated by dotted lines in Fig. 3.

In applying my lining to a barrel or other 105 receptacle it is inserted into the barrel with the upper flaps engaging the top of the barrel, as shown in Fig. 3, thus retaining the lining in place. By shaking the lining, the bottom flaps will in most instances disen- 13

gage themselves from their respective sides and will drop down in the manner shown in Fig. 3, thus forming a closure for the bottom of the lining. This closure, on account 5 of the manner in which the flaps are formed, will effectively prevent the leakage of material therethrough, as each flap extends substantially across the bottom of the tubular lining and breaks joints with the adjacent 10 flap or flaps. When the barrel has been filled, the operator folds over the flaps 3b, 4b, 5^b and 6^b, and places the cover on the receptacle.

From the foregoing description taken in 15 conjunction with the drawings, it will be apparent that I have produced a lining for barrels which is extremely simple and economical of production, but which will be efficient in operation and may be applied to 20 the container with which it is to be employed with a minimum of manipulation.

As shown in Fig. 1, the linings may be folded for packing or shipment along the longitudinal lines connecting the slits be-25 tween the corresponding flaps at the top and bottom and in this condition will occupy a minimum of space and will be in readiness for insertion into the barrels or other receptacles with which they may be employed.

While I have shown the lining as provided with four flaps at the top and at the bottom thereof, I do not propose to limit it to any particular number of such flaps, as it will be apparent that more or less may be 35 used, it being essential that enough flaps be employed to form, when folded transversely of the tube, a tight closure for the same.

Having thus described my invention, what I claim is:

1. A lining for barrels and other like containers, comprising a tube of pliable paper normally open at both ends and divided into a plurality of longitudinally extending sections, each section having at its opposite ends 45 a flap, the flap at the bottom of a section being bent inwardly against the inner surface of such section and the flap at the top being bent outwardly against such section.

2. A lining for barrels and other like con-50 tainers comprising a tube of pliable paper

having a plurality of slits extending from each end toward the longitudinal center thereof, the corresponding slits at opposite ends being in substantial alinement, the flaps formed between said slits at one end of the 55 tube being folded inwardly into substantial engagement with the body of the tube and the flaps formed between said slits at the opposite end of the tube being folded outwardly into substantial engagement with the 60 body of the tube.

3. A lining for barrels and other like containers comprising a tube of pliable paper having flaps at the bottom and top thereof, the flaps at the bottom being adapted to 65 fold one over the other to form a bottom closure, and the flaps at the top being folded outwardly and adapted to be folded inwardly.

4. A lining for barrels and other like con- 70 tainers comprising a tubular body of pliable paper, said body having flaps at opposite ends thereof adapted to extend transversely of the body to form end closures therefor, said body being divided into longitudinal 75 sections, each section having a flap at opposite ends thereof and said body being folded along the lines between said sections.

5. A lining for barrels and other like containers comprising a tube of pliable material 80 having a plurality of slits extending from each end toward the longitudinal center thereof, the corresponding slits at opposite ends being in substantial alinement, the flaps formed between said slits being ar- 85 ranged and adapted to be folded across the tube to form closures therefor, the flaps at one end of the tube being folded inwardly against the body thereof and the flaps at the opposite end of the tube being folded 90 outwardly against the body thereof and the body of the tube being folded along the lines uniting the corresponding slits at opposite ends thereof.

In testimony whereof, I hereunto affix my 95 signature in the presence of two witnesses. THEODORE SCHERF.

Witnesses:

J. B. Hull, Brennan B. West.