Dec. 13, 1927. 1,652,679

E. O. NELSON

BAG CONSTRUCTION

Filed Jan. 30, 1926

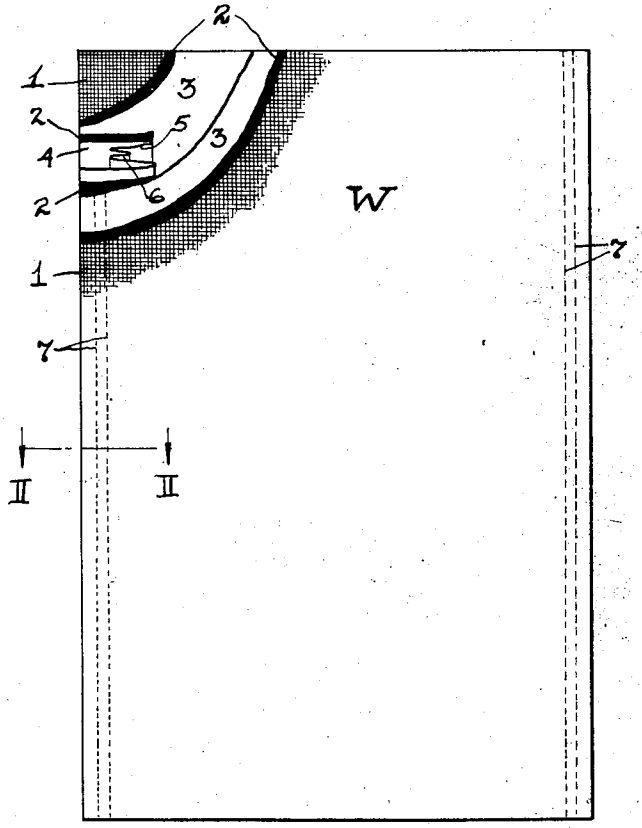


Fig. 1

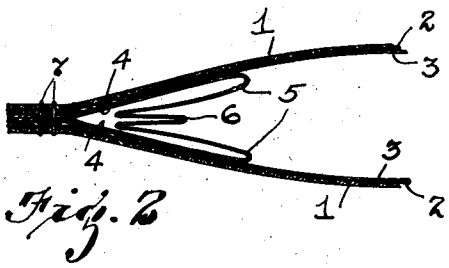


Fig. 2

INVENTOR.

Elving Ovid Nelson

BY

Dorsey, Oberlin & Dorsey

ATTORNEYS.

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UNITED STATES PATENT OFFICE.

ELVING OVID NELSON, OF MIDLAND, MICHIGAN, ASSIGNOR TO THE DOW CHEMICAL COMPANY, OF MIDLAND, MICHIGAN, A CORPORATION OF MICHIGAN.

BAG CONSTRUCTION.

Application filed January 30, 1926. Serial No. 84,956.

This invention relating, as indicated, to bags has more particular reference to bags of waterproof or moisture-proof character, and it is among the objects of the invention to provide a construction in which entrance of moisture is prevented, not only through the walls but also at the seams.

To the accomplishment of the foregoing and related ends, the invention, then, consists of the means hereinafter described and particularly pointed out in the claims, the annexed drawing and the following description setting forth but one of various ways in which the principle of the invention may be utilized.

In said annexed drawing:—

Fig. 1 is a view in side elevation, broken away in part, showing one embodiment of the invention; and Fig. 2 is a sectional detail taken on the line II—II, Fig. 1.

In its general aspects the construction includes a bag wall made up with seams as desired, and a waterproofed element guarding the seams internally. Preferably the seams are located at the sides and not at the bottom. The reference numeral W in the drawing designates a bag wall, made up of any suitable material, for example a textile 1 as burlap, scrim or other, and paper 3. These are seamed at the edge as at 7, and guarding the seam at the inside is a protective element made up of paper preferably and in the form of a strip running longitudinally and included in the seam, the strip being folded as at 5 and further folded centrally as at 6 in a sort of accordion-like fold or pleat, and the folded portions where adjacent to the bag wall are cemented thereto by a water-proofing cementing agent. A similar waterproofing cementing agent is desirably employed between the layers 1 and 3. This material may be of petroleum pitch, natural asphalt, boiled linseed oil, tung oil, or in some instances casein cement. Paper of various grades may be employed, most advantageously however, a creped or crinkled paper, best of sulphate stock.

Other modes of applying the principle of my invention may be employed instead of the one here explained, change being made in the form or construction, provided the elements stated by any of the following claims or the equivalent of such stated elements be employed.

I therefore particularly point out and distinctly claim as my invention:—

1. A bag seamed along its edge and including a layer of textile material and a layer of paper with water proofing, and a strip of waterproofed material having longitudinal double reversed folds extending along the seam and being cemented to the side walls interiorly of such seam.

2. A bag seamed along the edges but not seamed at the bottom, and including a layer of textile material and a layer of paper with waterproofing, and a strip of waterproofed material having longitudinal double reversed folds extending along the seams and being cemented to the side walls interiorly of such seam.

3. A bag seamed along the edges but not seamed at the bottom, and including a layer of textile material, and a layer of paper with waterproofing, and along each seam a strip having its edges in the seam and having longitudinal double reversed folds centrally and being cemented to the side walls interiorly of such seam.

4. A bag seamed along the edges but not seamed at the bottom, and including a layer of textile material, and a layer of paper with waterproofing, and along each seam a strip of waterproofed material having its edges in the seam and having longitudinal double reversed folds centrally and being cemented to the side walls interiorly of the seam.

Signed by me, this 27 day of January, 1926.

ELVING OVID NELSON.