G. D. CRABBS.

ACID, ALKALI, AND WATER RESISTING COVERING.

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1,034,981. Patented Aug. 6, 1912.

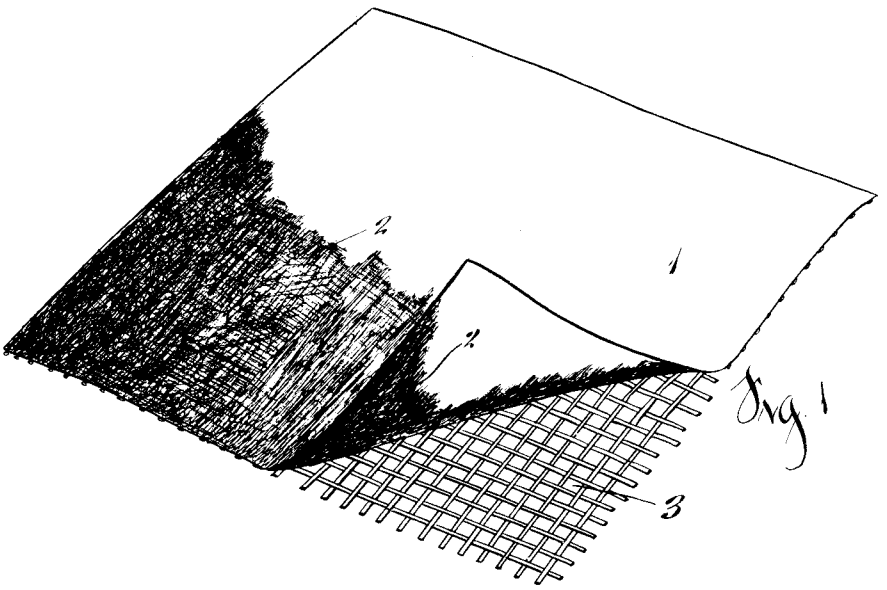
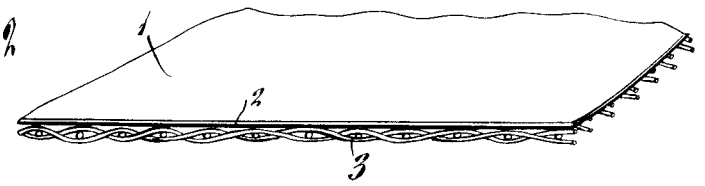


Fig. 1

Fig. 2



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UNITED STATES PATENT OFFICE.

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ACID, ALKALI, AND WATER RESISTING COVERING.

1,034,981. Specification of Letters Patent. Patented Aug. 6, 1912.

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To all whom it may concern:

Be it known that I, GEORGE D. CRABBS, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Acid, Alkali, and Water Resisting Coverings, of which the following is a specification.

My invention relates to improvements in coverings and particularly such coverings as are used for wrapping purposes and the like.

The object of my invention is to provide an efficient water resisting and acid and alkali resisting covering which is adapted to securely contain fine materials such as powder, and protect the same as well as the covering against the deleterious action of water or chemicals.

Another object of my invention is to provide a covering of this character which shall be economical to manufacture and durable in use.

My invention consists in an article of manufacture comprising a layer of felt or paper coated upon one or both sides with water resisting and acid and alkali resisting compound consisting preferably of asphalt and superposed upon a layer of fabric, such as burlap.

My invention also consists in the several features herein set forth and claimed.

In the drawings, which serve to illustrate the construction of my invention: Figure 1 is a perspective view of a portion of the covering consisting of paper coated upon both sides with an adhesive water resisting and acid and alkali resisting material or compound, and having a layer of burlap superposed thereon, one corner of the paper, having the coating thereon, being turned back to show the burlap and the coating on the side of the paper adjacent to said burlap. Fig. 2 is a perspective view of the material showing only one side of the paper coated with the water resisting and acid and alkali resisting material, and the burlap superposed upon said water resisting and acid and alkali resisting material.

In the construction of coverings made in accordance with my invention, I am enabled to produce a very strong, durable and satisfactory covering by providing a layer 1 of paper having upon one or both sides a coating 2 of adhesive water resisting and acid and alkali resisting material consisting of asphaltic compound, and superposing upon one side thereof a layer 3 of fabric which may be of open texture, such as seven ounce burlap, or any other lighter weight material for the purpose of giving sufficient strength and body to the covering. When the layer 1 of paper is coated upon one side only with the acid and alkali proof and water proof compound 2, the layer of burlap or other fabric is embedded in and adheres to the compound. This construction enables me to form a strong and durable covering which is adapted to retain the finest powdered material and being acid and alkali proof and water proof will permit of long and continuous usage when placing therein materials containing acids and other chemicals which would destroy an ordinary unprotected covering. It will thus be seen that by this construction I produce a covering which will more efficiently hold materials containing acids as well as to prevent the same from eating the covering and destroying it, thus providing a more efficient article for the purposes intended. The paper being of a fine texture prevents any fine substance passing therethrough. The water proof and acid and alkali proof coating serves to protect the burlap from injury due to chemicals or moisture contained in the material wrapped by the covering, while the burlap gives the structure the necessary strength and the combination of the three layers provides sufficient body for the covering for the purposes intended.

It is desirable to produce a covering which is proof against the action of chemicals and water, not only for the protection of the contents within the covering but also to protect the covering itself from said destructive elements and agencies. When the contents within the covering is of such a nature as not to injuriously affect the paper of the covering when directly in contact therewith, it is only necessary and essential that one surface of the paper be coated with the water proof and chemical proof material as shown in Fig. 2, but when the covering serves to incase or contain materials which have a certain amount of moisture or have a chemical action when applied to paper or similar material it is preferable that the paper be coated upon both sides with the water proof and chemical proof compound

as shown in Fig. 1, so that the covering is protected both upon the outside and upon the inside against the action of chemicals or moisture.

When the contents of the covering consists of material that does not unfavorably affect paper, it is desirable to omit the water proof material from the inside and provide the water proof material only upon the side to which the burlap is applied and the side which forms the outside of the covering or wrapper.

I claim:

1. An article of manufacture comprising a covering formed of a layer of paper coated with adhesive water, acid and alkali resisting material consisting of asphalt and having superposed on said material a layer of woven fabric adapted to adhere thereto, substantially as set forth and for the purposes specified.

2. An article of manufacture comprising a covering formed of a layer of paper, a layer or coating of water resisting and acid and alkali resisting material consisting of asphalt upon one side thereof and a layer of woven fabric superposed upon and adhering to said acid and alkali resisting and water resisting layer, substantially as set forth and for the purposes specified.

3. An article of manufacture comprising a covering formed of a layer of paper coated with water resisting and acid and alkali resisting material consisting of asphalt, and having superposed thereon a layer of woven burlap, substantially as set forth.

4. An article of manufacture comprising a covering formed of a layer of paper coated with adhesive water, acid and alkali resisting material and having superposed on said material a layer of woven open mesh fabric adapted to adhere to said material, substantially as set forth and for the purposes specified.

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