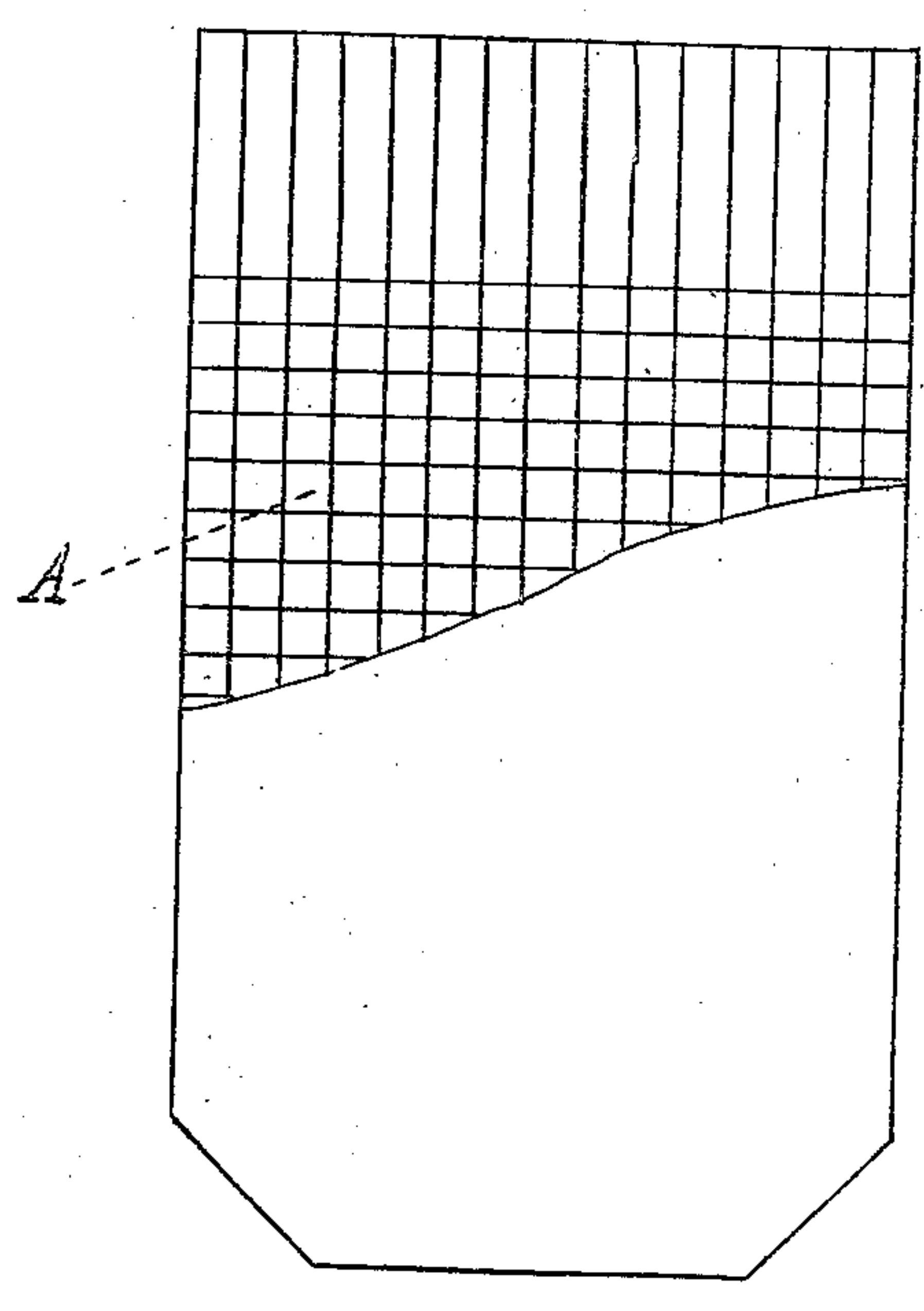


958,385.

W. P. FITZGERALD.
BAG.
APPLICATION FILED AUG. 25, 1908.

Patented May 17, 1910.



Witnesses:

Ella B. Kirkhoff.
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UNITED STATES PATENT OFFICE.

WILLIAM PRESTON FITZGERALD, OF EASTON, PENNSYLVANIA.

BAG.

958,385.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed August 25, 1908. Serial No. 450,237.

To all whom it may concern:

Be it known that I, WILLIAM PRESTON FITZGERALD, a citizen of the United States, residing at Easton, in the county of Northampton, in the State of Pennsylvania, have invented new and useful Improvements in Bags, of which the following is a specification.

This invention relates to an improved bag, the invention being intended especially for use in making bags for holding very heavy material, such as cement bags and sand bags, but being applicable also to bags for holding lighter materials, such as grain, flour etc., the especial object of the invention being to provide a paper bag of great strength which shall be cheap, simple and capable of rapid manufacture.

I aim also at the production of such a bag which shall be strengthened at the top without interfering with tying, and to provide an improved waterproof bag.

While the invention is especially applicable to bags made of paper, it is of value also in connection with bags made of cloth.

I secure the strength desired by placing cord, thread or tape of strong material, such as flax, cotton or other fiber, on the outside of the bag making material, linen thread being preferably used. The linen thread or other strengthening cord, thread or tape is applied in an open mesh, preferably a mesh of from a half inch to one inch and a half, according to the character and strength of the bag desired. The bag making material may be of paper or cloth, and the strengthening mesh may be glued to the outside of the bag making material and no outer covering be used, but preferably a suitable thin material, such as paper or cloth, will be applied outside the strengthening mesh and glued to the mesh and the inner bag material. This outside covering may be water-

proofed with some substance that will withstand water or moisture, or, if the outside covering be not used, the inner covering with the strengthening mesh may be similarly waterproofed.

The strengthening mesh is preferably applied with cords, threads or tapes running around the bag, or horizontally, and longitudinally of the bag, or vertically, so as to form a rectangular mesh. The vertical cords, threads or tapes reach to the top of the bag, but the horizontal cords, threads or tapes are discontinued below the top of the bag so as not to extend through the portion of the bag which is taken up in tying. The object of thus discontinuing the horizontal cords, threads or tapes is to prevent the top of the bag being too stiff for convenient tying and at the same time strengthen the top of the bag including the tied portion by the vertical cords.

In the accompanying drawing, a bag embodying all the features of the invention in their preferred form is shown, the outside covering of the bag being broken away to show the exposed mesh A on the inner material.

What I claim is:—

A bag composed of an inner material of paper or cloth strengthened by vertical and horizontal cords, threads or tapes applied to the outside surface of the inner material in an open mesh, and having the vertical cords, threads or tapes extending to the top of the bag and the horizontal cords, threads or tapes omitted at the top of the bag so as not to extend through the tying portion of the bag.

WILLIAM PRESTON FITZGERALD.

Witnesses:

FAITH B. FITZGERALD,
ELLA B. KIRKHOFF.