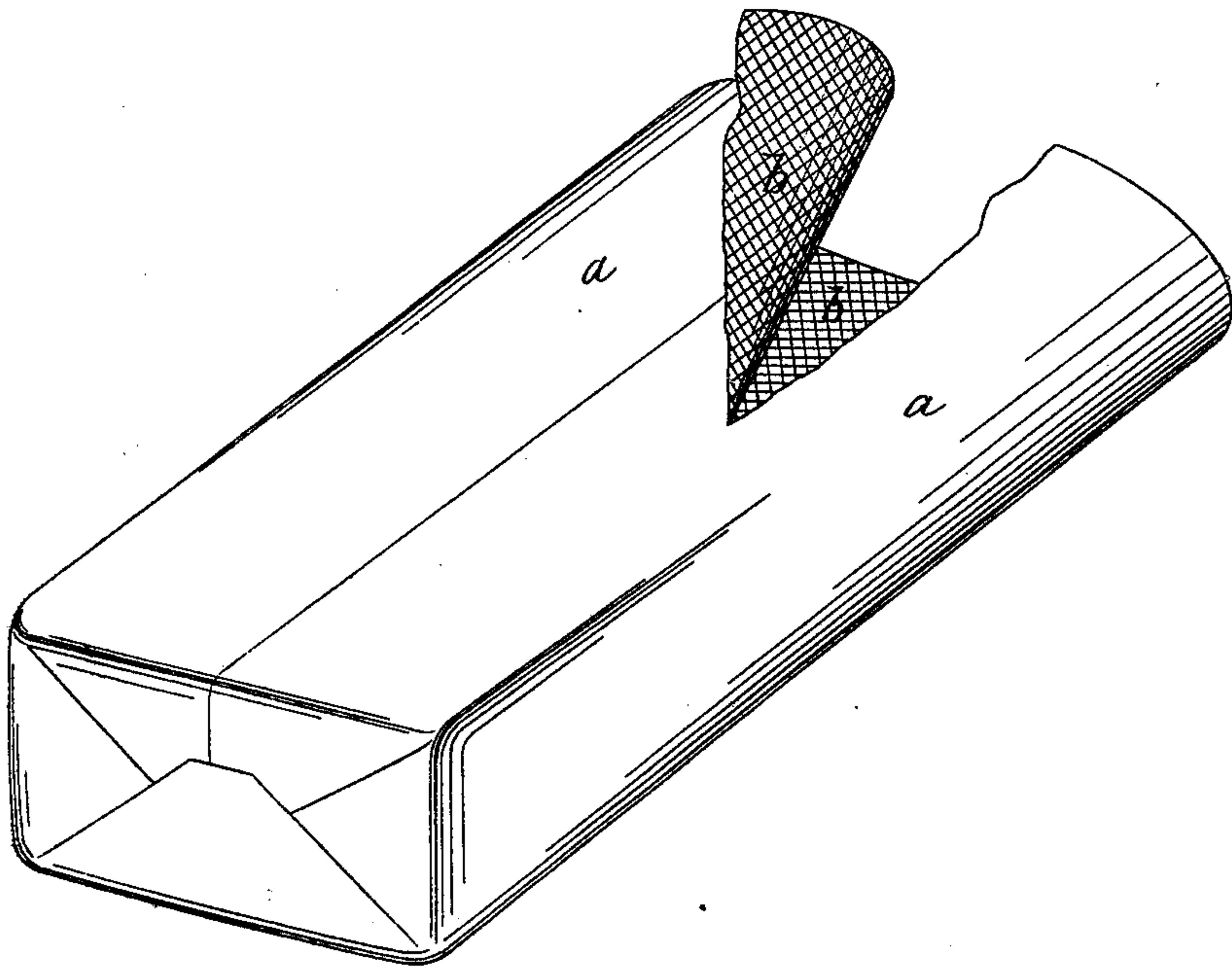


T. PHILLIPS.  
PAPER-BAG.

No. 176,548.

Patented April 25, 1876.



Witnesses.  
Walter Masson  
Edmund Masson

Inventor.  
Thomas Phillips.  
By atty A.B. Stoughton.

# UNITED STATES PATENT OFFICE.

THOMAS PHILLIPS, OF AKRON, OHIO.

## IMPROVEMENT IN PAPER BAGS.

Specification forming part of Letters Patent No. **176,548**, dated April 25, 1876; application filed September 27, 1875.

*To all whom it may concern :*

Be it known that I, THOMAS PHILLIPS, of Akron, in the county of Summit and State of Ohio, have invented a new and useful flour and grocery bag, as an article of manufacture; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, and which represents a flour-bag with a portion torn down to represent, by a darker surface, the difference in the material composing the outer and inner surfaces of the bag.

Manila paper, as at present used for flour and other strong bags, is frequently made of two sheets run together in the paper-machine so as to form one thick sheet, and the pulp of both of these sheets has been heretofore bleached for the sake of appearance, which bleaching is not only expensive but detracts from the strength of the fiber.

My invention consists in a paper bag for flour and groceries made of bleached pulp in part, and of unbleached pulp in part, these pulps being laid together before the sheet is felted or pressed into one sheet, by which means I not only make a much stronger bag but at a greatly diminished expense.

In the making of my paper bag I prefer to use the bleached-pulp surface for the exterior of the bag *a*, which gives it the same saleable appearance as that of the bags now in use and made entirely of bleached stuff, and the inside of the bag has an unbleached-pulp surface, *b*, which is stronger and cheaper than the bleached pulp, so that at a reduced cost

I produce a stronger paper bag than has been heretofore done.

While I prefer to have the pulp that forms one of the surfaces entirely unbleached, because it is stronger, yet I would regard a slightly bleached pulp, so long as it was not materially weakened by the bleaching, as involved in my invention. So, too, would the bag with the unbleached-pulp surface on its exterior be deemed as involving my invention, which consists in a paper bag, one surface of which is of bleached pulp for appearance, and the other of similar pulp unbleached, or very little bleached, for the sake of economy of first cost, and for strength.

The pulp of which the paper composing the bag is made is not originally of different qualities or colors, as has been essayed by paper-makers, but is of the same quality—one part being changed in color by bleaching, the other pulp left in its natural color by being unbleached or slightly bleached. No coloring matter is put in the pulps.

What I claim as a new article of manufacture is—

The herein-described paper bag, having one surface of bleached pulp for the sake of merchantable appearance, and the other surface of unbleached or slightly-bleached pulp, for the sake of cheapness and strength, as described and represented.

THOS. PHILLIPS.

Witnesses:

A. B. STOUGHTON,  
EDMUND MASSON.