

(No Model.)

F. O. PAIGE.
PAPER BAG CLOSING DEVICE.

No. 468,257.

Patented Feb. 2, 1892.

Fig. 1- a



Fig. 2-

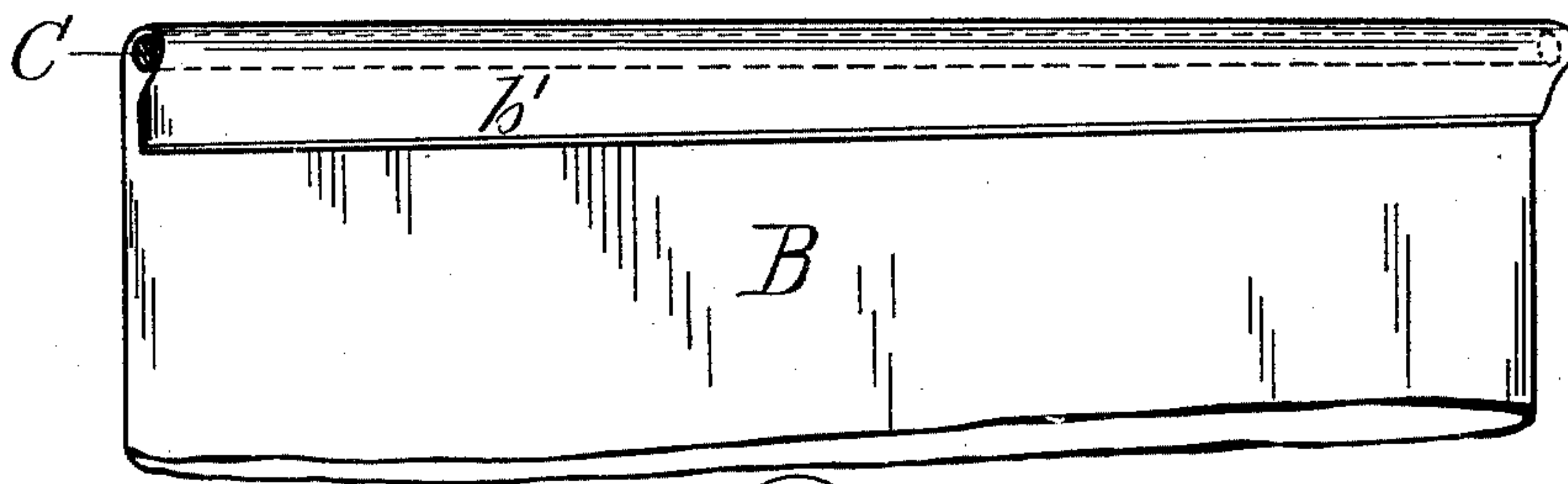


Fig. 3-

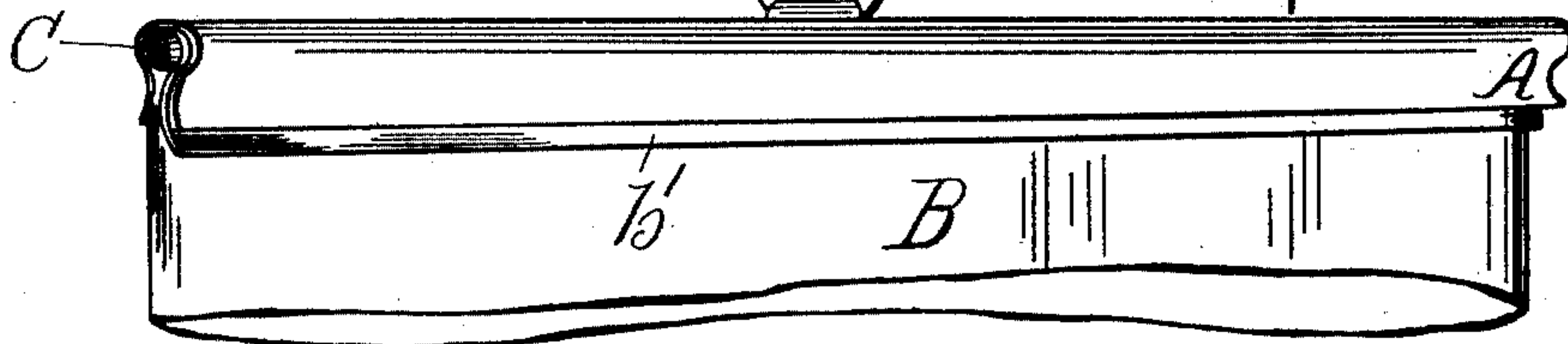
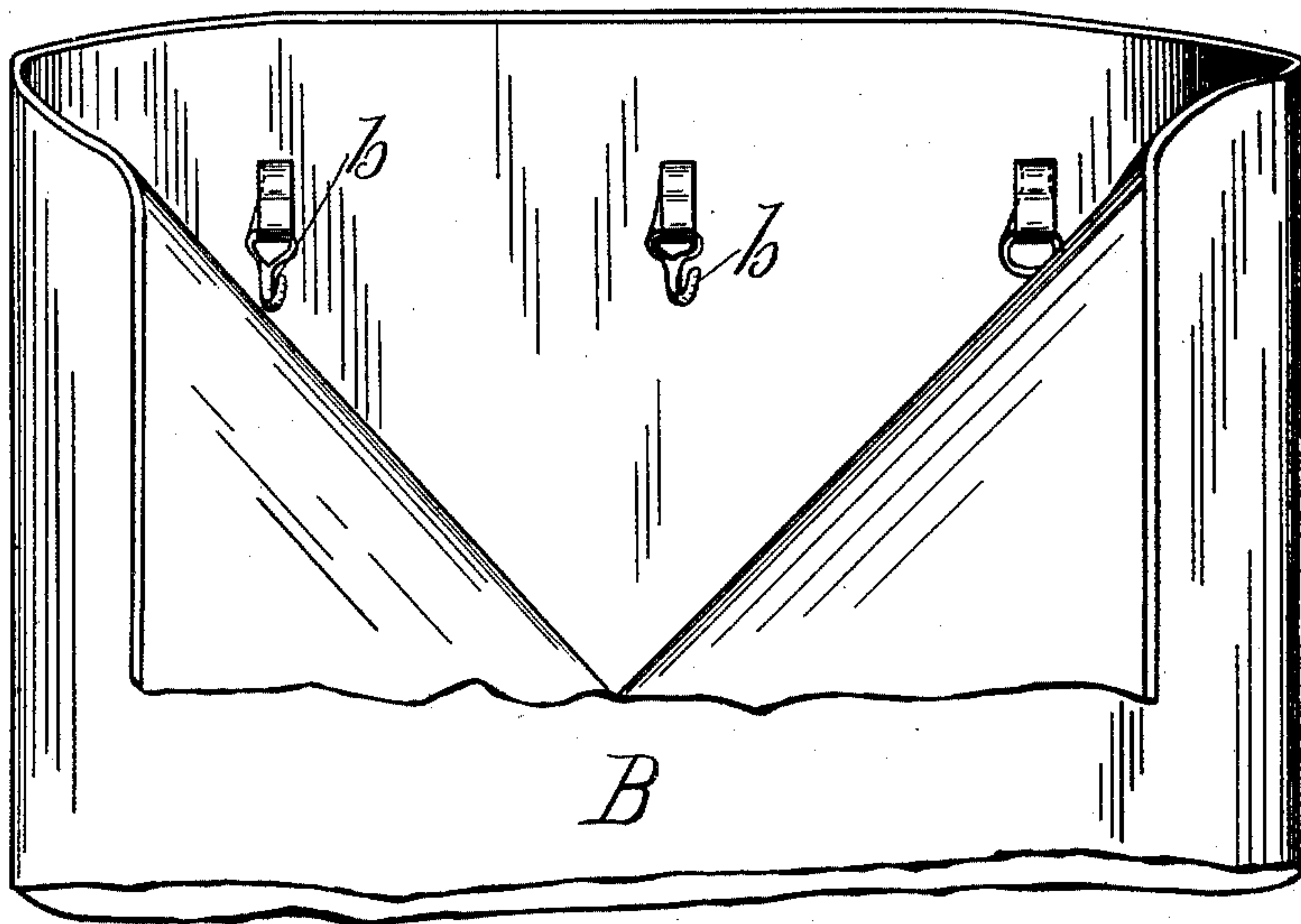
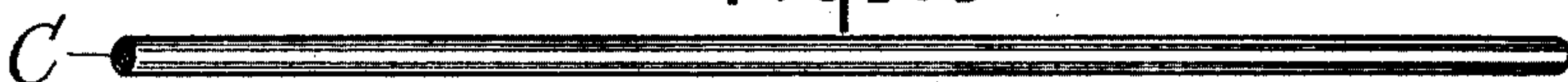


Fig. 4-



WITNESSES
J. Clough.
W. H. Fisk

Fig. 5-

INVENTOR
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UNITED STATES PATENT OFFICE.

FREDERICK O. PAIGE, OF DETROIT, MICHIGAN.

PAPER-BAG-CLOSING DEVICE.

SPECIFICATION forming part of Letters Patent No. 468,257, dated February 2, 1892.

Application filed September 21, 1891. Serial No. 406,321. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK O. PAIGE, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Paper-Bag-Closing Devices; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to paper bags of a large size used as a receptacle in which to store clothing, furs, blankets, and other articles to keep them free from dust and moths. The demand for such an article is growing, as it has been found to be a perfect protection from moths and other insects.

The object of my invention is to provide novel means for closing the mouth of a moth-proof bag practically air-tight, while enabling the bag to be quickly and conveniently opened and closed without destroying or injuring the same.

To accomplish this object my invention involves the features of construction and the combination or arrangement of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 shows the form in which I make the slotted tube or closing device. Fig. 2 shows the manner in which I roll the mouth of the bag over a bar. Fig. 3 shows the closing device shown in Fig. 1 engaged with the bag shown in Fig. 2. Fig. 4 shows the bar. Fig. 5 shows the mouth of a bag provided with interior hooks, the forward portion being slit and folded back to disclose the interior.

In the several figures, A is a slotted tube or holding device, which I prefer to form as shown in Fig. 1. An ordinary tube may be used with a straight slot cut in it, in which the edges will engage and compress the portions of the bag below the rolled or thickened portion, if desired. I prefer the construction as shown.

B is the body of a bag, which may be made of any material, preferably of a strong tough paper. Inside of the mouth of the bag are provided hooks *b b*. These hooks may be sewed

to the inside of the paper bag, or a tape or cloth portion may be pasted or otherwise fastened to the bag, and where the cloth portion is used the hooks need not be sewed to the bag, but may be an ordinary double hook, one portion adapted to hook or engage into the cloth portion and the other on which to hang the garments or other articles to be placed in the bag. In Fig. 5 the hooks are shown as sewed to the paper bag itself.

b' is the upper portion of the mouth, folded over a bar C. I find in practice that there is no necessity for making this bar of any great size, a No. 4 wire being sufficient to hold the bag in place, although a wooden roll or bar, either square or round, may be used.

b^s is a fold of the front and rear portions of the mouth of the bag to thicken it and adapt it to be held within the slotted tube. Although this construction may be used, I prefer the use of a straight bag and a wire bar or rod. *a* is a ring attached to the slotted tube, by which to hang the same in a closet or wardrobe.

In engaging the mouth or top of the bag with the slotted tube it should be entered from the end and slipped through until the slotted tube covers the mouth and closes it. The tube itself may be of greater length than the width of the bag, if desired, to insure closing it.

I am aware that a slotted tube has been employed for closing the mouth of a mail-bag; but I am not aware that a tube has been used with such accessories as produce an air-tight or moth-tight closing device. To produce this result it is necessary to provide means around which to fold the top of the bag, so that the slotted tube acts to compress the folds and make a tight joint, and in which this compression is increased when the bag is suspended from the closing device. It is desirable to employ a stiff wire around which to fold the mouth of the bag to facilitate in engaging the closing device and to provide for drawing the fold into the slot in the tube when the bag is suspended from the tube. The advantage of folding both edges of the mouth portion of the bag over a rod in one direction is that it tends to roll the fold into the slot and compress it. A similar result is produced when the edges are provided with a fold and

both edges rolled in the same direction and then embraced by the slotted tube, as the same rolling action forces the paper into the slot in the tube and produces a tight joint.

5 The purpose of this feature of the construction is to provide the top with a fold over either a rod or a roll of the paper, and then so suspend the bag as to bring the weight on one side of the fold to tighten it.

10 Heretofore in so-called "moth-proof" bags it has not been designed to produce anything like an air-tight bag, and it has been found to be necessary to use tar or other similar substance in the manufacture of the paper to aid
15 in keeping out the moths. In using my construction no such precaution is necessary and the disagreeable smell of the tar or necessary insecticide compound is avoided.

What I claim is—

20 1. The combination, with a bag, of a closing device consisting of a filler over which both edges of the bag-mouth are folded in the same direction and a longitudinally-slotted tube which retains the folded edges of the

bag-mouth in proper position round the filler, 25 substantially as and for the purposes described.

2. In combination with a bag, a closing device consisting of a slotted tube and a filler over which to fold the edges of the mouth portion of the bag, said slotted tube provided 30 with means by which to hang the same for suspending the bag, substantially as described.

3. In combination with a bag, a closing device consisting of a slotted tube and a filler 35 over which to fold the edges of the mouth portion of the bag, said slotted tube adapted to engage with and close the folded edges of the mouth portion of the bag, and a ring attached to the slotted tube for suspending the bag, 40 substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

FREDERICK O. PAIGE.

Witnesses:

MARION A. REEVE,
CHARLES H. FISK.