

J. M. HURD.
FLOUR SACK.

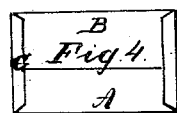
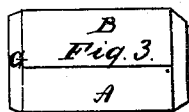
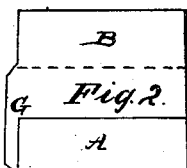
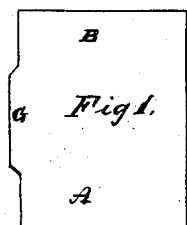


Fig. 5.

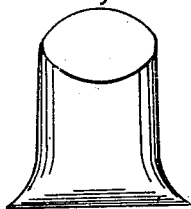
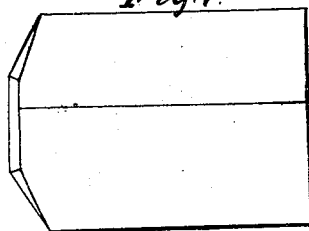
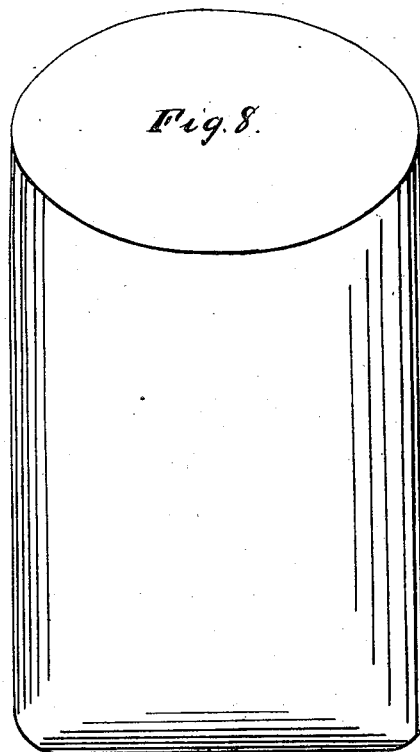
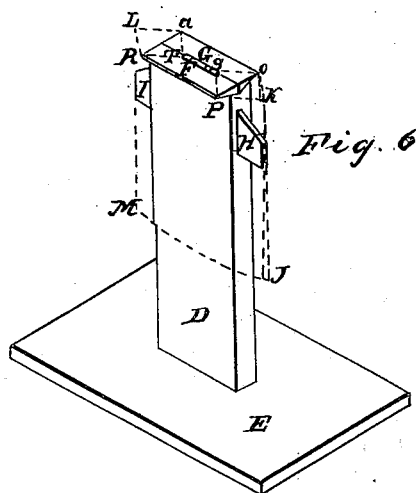


Fig. 7.



Witnesses.

M. B. Babbitt
Sherry Babbitt



Inventor

J. M. Hurd

UNITED STATES PATENT OFFICE.

J. M. HURD, OF AUBURN, NEW YORK.

IMPROVEMENT IN FLOUR-SACKS.

Specification forming part of Letters Patent No. 51,722, dated December 26, 1865.

To all whom it may concern:

Be it known that I, J. M. HURD, of Auburn, in the county of Cayuga, in the State of New York, have invented a new and Improved Flour-Sack; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In view of the high price of cotton cloth, paper has now been very generally substituted therefor in the manufacture of flour-sacks; but as this article is to a very high degree non-elastic, there has been found a serious difficulty in bringing it into such shape as to make it properly answer the purpose required therefor. This difficulty exists chiefly in forming the bottom of the sack.

In Figure 5 will be seen a sack filled, and it will be noticed that the corners at the bottom project from the body of the sack a distance nearly equal to one-third its diameter. Now, the object of this invention is to remove this objection to the paper sack.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Fig. 1 is the form into which the paper is cut before the same is folded. Fig. 2 shows the first step in the process of making the common sack with the piece A folded over. Fig. 3 shows the second step, which is to fold over the piece B and to paste its edge onto the edge of the piece A. Fig. 4 shows the third step, which is to paste the piece C and to fold the same over and onto the pieces A and B; and the common flour-sack is completed. Fig. 5 shows this common sack filled, and as the lower corners project so very far from the body of the sack, they are not only very much in the way, but are very likely to be ruptured and the flour lost. Fig. 6 is a stand, and on the top contains an apparatus, to be described hereinafter, showing the manner of operating the invention. Fig. 7 is a representation of one of my improved sacks before the same is filled.

Fig. 8 is a perspective elevation of my improved sack filled.

Now, it will be seen that the invention consists in so folding the paper as to entirely overcome the objectionable features above mentioned.

Fig. 6 represents a stand, D, set in a table, E. On the top of the stand D are two leaves, F and G. Said leaves are hinged together and the hinges secured to the stand D. Projecting from the stand D are two pieces, H I. After the sack is made in the common way, as represented in Fig. 4, it is opened and drawn over the top of the stand D, the bottom of the sack resting on the two leaves F and G. The sack, when drawn over as above mentioned, is represented by dotted lines, the corners terminating at J K L M. While the bottom of the sack is resting on the two leaves above mentioned, the triangle-piece shown in dotted lines K O P and the triangle-piece on the opposite edge, represented between the letters L Q R, are pasted and folded over onto the bottom and made to occupy the space shown in dotted lines between the letters O P S and R Q T, being held down by the forefinger of each hand, while an apparatus connected with the stand D and operated by the foot (not shown in the drawings because no part of the invention) causes the outer edges of the two leaves F and G to rise up, and as the edges approach each other the thumbs on the side nearest the operative and the fingers on the opposite side take under the leaves and hold of the sack, raising the same off the stand folded in the manner represented in Fig. 7.

Having above described the mode of constructing and operating my invention, what I regard as new, and wish to secure by Letters Patent, is—

The making of paper bags in the manner described as a new article of manufacture.

J. M. HURD.

Witnesses:

A. E. BABBETT,
AVERY BABBETT.