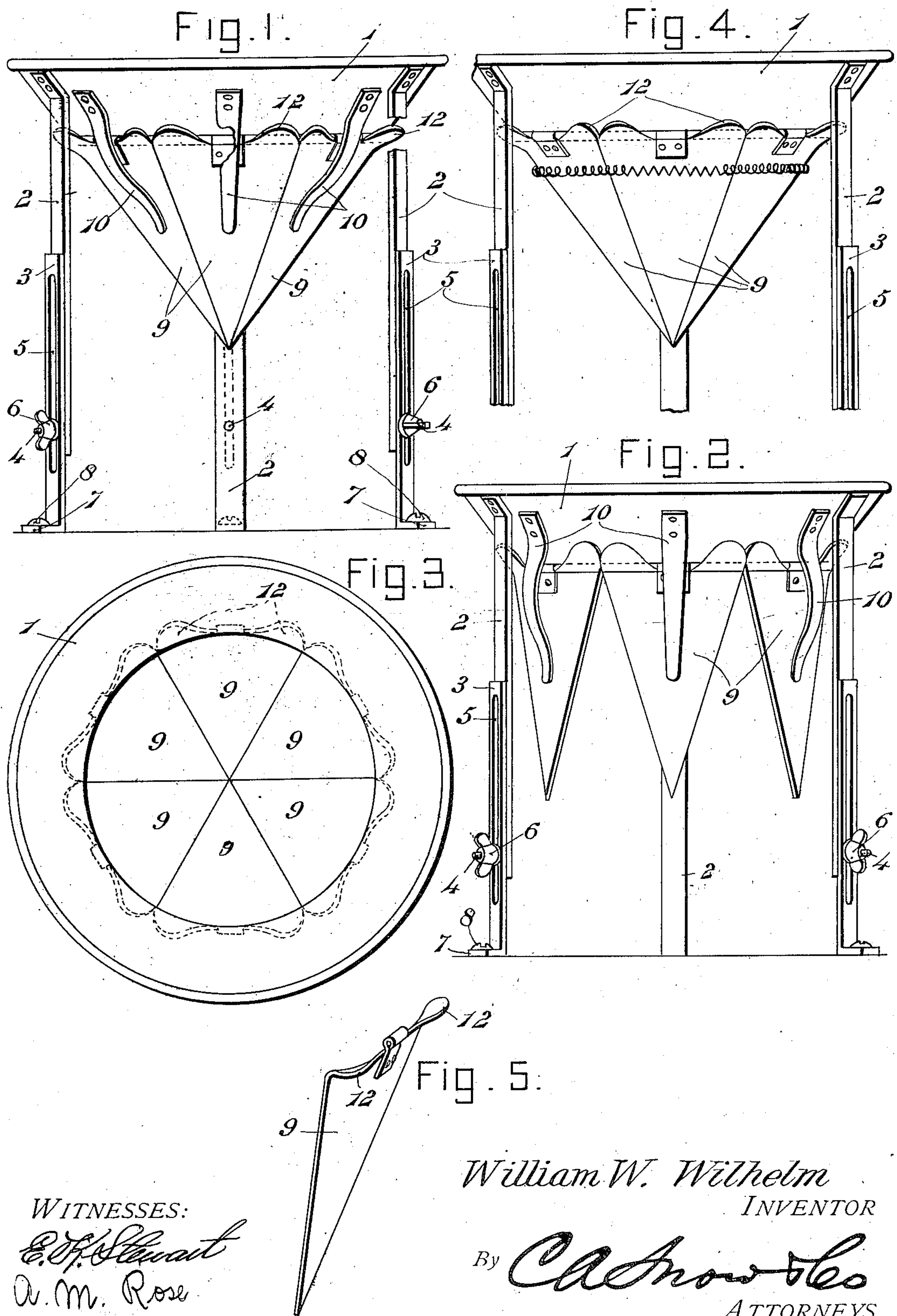


No. 861,007.

PATENTED JULY 23, 1907.

W. W. WILHELM.  
PAPER HOLDER AND FILLER.  
APPLICATION FILED JAN. 31, 1907.





# UNITED STATES PATENT OFFICE.

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## PAPER HOLDER AND FILLER.

No. 861,007.

Specification of Letters Patent.

Patented July 23, 1907.

Application filed January 31, 1907. Serial No. 355,071.

*To all whom it may concern:*

Be it known that I, WILLIAM W. WILHELM, a citizen of the United States, residing at Charlotte, in the county of Mecklenburg and State of North Carolina, have invented a new and useful Paper Holder and Filler, of which the following is a specification.

This invention relates to paper bag holders and fillers; the object of the invention being to facilitate the filling of paper sacks.

10 A further object of the invention is to provide a sack supporting and filling device, which shall be simple in construction and efficient in operation, and which may be supported in operative position upon the counters of stores where it will afford convenient means for supporting paper sacks while material is being placed therein.

20 With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be made, when desired.

30 In the drawings, Figure 1 is a side elevation of a device constructed in accordance with the principles of the invention, said device being shown in receiving position. Fig. 2 is a side elevation showing the device in discharging position. Fig. 3 is a top plan view. Fig. 4 is a side elevation illustrating a modification. Fig. 5 is a perspective detail view of one of the wings or leaves of the device.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

40 The improved device, in its several forms, includes a funnel or hopper 1, which is supported at a suitable elevation by means of a plurality of legs 2, 2 each provided with slotted extension members 3, 3 secured thereto, adjustably, as by means of bolts 4 operating through the slots 5 and provided with thumb nuts 6 whereby the legs 2 and the extension members 3 may be clamped together. The extension members 3 have been shown as provided with feet 7 apertured for the reception of fastening means, such as screws 8 whereby they may be secured in position upon a table or counter, or other suitable surface.

55 The funnel or hopper 1 consists of a beveled ring of suitable dimensions to the lower edge of which there are hingedly connected a plurality of wings or leaves 9, 9 that cooperate to form an inverted conical receptacle;

spring means are provided whereby the lower ends or free extremities of the wings or leaves 9, 9 will be forced in the direction of each other; these spring means may consist of flat leaf springs, shown at 10, 10 in Figs. 1 and 2, said springs being secured upon the outer side of the funnel or hopper 1 with their free ends bearing exteriorly against the wings or leads 9; or, as shown in Fig. 4, a single coiled spring may be mounted upon the leaves 9, 9 in such a manner as to encircle all of the leaves, the free ends of which are thereby actuated in the proper direction.

The upper edges of the wings 9, 9 are provided with flaring extremities 12 which, when the lower ends of the leaves are forced outward against the tension of the springs, will limit the movement of said leaves by abutting exteriorly upon the funnel or hopper.

In the operation of this device, the mouth of the sack that is to be filled is adjusted upon the cone formed by the wings or leaves 9, 9, and the bottom of the sack will be permitted to rest upon the table or counter upon which the device is supported; the sack will thus be held in position while the material with which it is to be filled is poured into the funnel or hopper 1; the weight of the material will expand the leaves 9, 9 against the tension of the springs, and the material will pass into the sack, the leaves being restored to their initial position by the action of the springs as soon as the material has passed into the sack.

This improved device, as will be seen, is simple in construction, and the filling of sacks will be greatly facilitated by the use thereof.

The device may obviously be made of different sizes, for large and small bags; but, by the use of the extensible legs or supporting members, a single device may be used for the purpose of filling bags of various sizes, and the range of utility of the device is accordingly increased.

Having thus described the invention, what is claimed is:—

1. In a device of the class described, a hopper, wings hingedly connected with the hopper and having flaring extremities adapted to bear against the hopper to limit the movement of the wings, and spring means to force the wings toward each other.

2. In a device of the class described, a hopper, means for adjustably supporting the hopper at various elevations, a plurality of wings hingedly connected with the hopper and cooperating to form a closure said wings being provided with flaring portions whereby their movement will be limited by contact with the body of the hopper, and spring means for forcing the free ends of the wings toward each other.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM W. WILHELM.

Witnesses:

JAS. F. PIERCE,  
A. A. MORRIS.