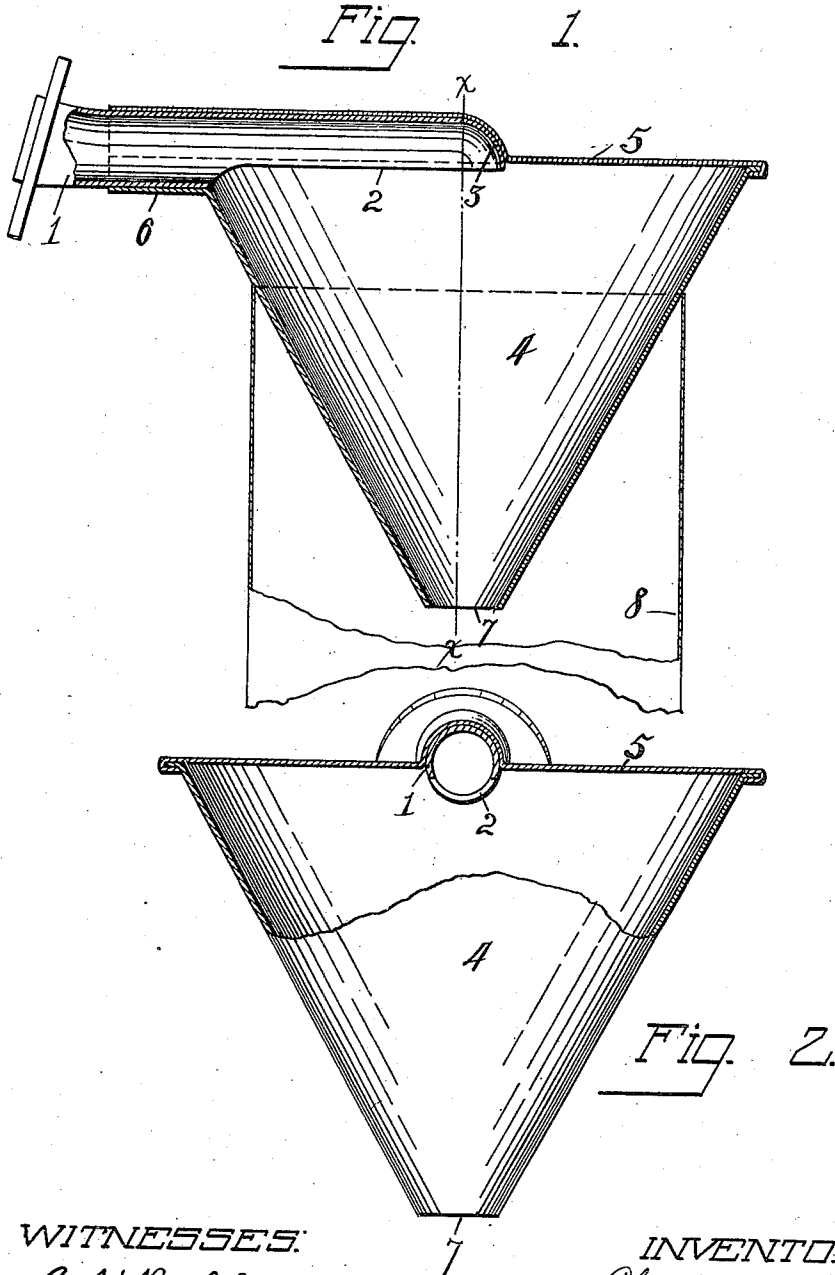


C. H. BRICKER.
ATTACHMENT FOR OPEN BAG FILLING MACHINES.
APPLICATION FILED JUNE 4, 1910.

987,341.

Patented Mar. 21, 1911.



WITNESSES:
C. H. Bills.
E. E. Thomas.

INVENTOR.
Charles H. Bricker,
By Owen & Owen,
His attys.

UNITED STATES PATENT OFFICE.

CHARLES H. BRICKER, OF CLAY CENTER, OHIO, ASSIGNOR OF ONE-HALF TO HERMAN F. SAHR, OF MARTIN, OHIO.

ATTACHMENT FOR OPEN-BAG-FILLING MACHINES.

987,341.

Specification of Letters Patent.

Patented Mar. 21, 1911.

Application filed June 4, 1910. Serial No. 565,010.

To all whom it may concern:

Be it known that I, CHARLES H. BRICKER, a citizen of the United States, and a resident of Clay Center, in the county of Ottawa and State of Ohio, have invented a certain new and useful Attachment for Open-Bag-Filling Machines; and I do hereby 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to an attachment for the discharge nozzles of open-bag filling machines, and is intended more particularly for use in connection with machines of the type adapted for the filling of bags with lime, cement or other finely powdered substance. In the use of machines of this type the material operated on is ejected from the nozzle with considerable force and usually by the action of a fan or blower and when filling open-mouthed bags, very considerable difficulty, inconvenience and discomfiture is occasioned due to the large amount of material rising from the bag mouth in dust form. On account of this very thick dust the workmen are unable to work without sponges over their noses and mouths.

The object of my invention is to provide a simple and efficient attachment for the filling nozzles of machines of this type, which will overcome the difficulties and discomfitures heretofore encountered in the use of such machines, entirely eliminate the dust nuisance and enable the men to work without placing sponges over their noses and mouths, as has heretofore often been the case.

The invention is fully described in the following specification, and a preferred embodiment thereof illustrated in the accompanying drawings, in which,—

Figure 1 is a central vertical section of a nozzle and the attachment therefor embodying my invention, with a bag associated therewith and partly in section, and Fig. 2 is a front elevation of the same with a part in section on the line *xx* in Fig. 1.

Referring to the drawings, 1 designates a filling-nozzle of the form usually em-

ployed on machines of this class, which nozzle projects horizontally from the machine, or substantially so, and has the under side of its outer end portion cut away, as at 2, to provide an elongated discharge opening, and its outer end preferably fashioned, as at 3, to obstruct the discharge of matter therefrom and deflect it downwardly.

The attachment comprising my invention consists of a substantially conical-shaped hopper-like member 4 having its top closed, as at 5, and provided at one side thereof with a nipple 6, which provides an opening into which the nozzle 1 projects and snugly fits. This nipple is preferably disposed so that its upper portion projects above the plane of the top and to adjacent the center thereof to permit the inner end of the nozzle to project a distance within the hopper member as shown. The side walls of such member conically contract toward the lower end thereof and form a restricted discharge opening 7 at such end through which the contained matter is discharged into a bag 8, the mouth of which is open and has the member 4 projected therein.

In operation the member 4 becomes filled with the lime or other material being worked and such material is only discharged therefrom when the nozzle valve (not shown) is opened. The force of discharge is very considerable and this forces the matter from the interior of the member 4 through the contracted opening 7 and into the bag. The member 4, when the machine is in operation fills with the matter and in addition to breaking the discharging force of the matter serves to catch and retain the dust occasioned by the blowing of matter through the nozzle 1.

It is found by the use of this attachment that the very objectionable dust incident to the filling of open bags in the old way is entirely eliminated and that the men are able to work without sponges over their noses and mouths, and also that more work can be accomplished with less men than before.

I wish it understood that my invention is not limited to any specific construction and arrangement of the parts except in so far as such limitations are specified in the claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is,—

1. The combination with the discharge
5 nozzle of a machine for the working of lime, cement or other finely powdered substance, of a hollow substantially conical shaped member having its upper large end portion closed and provided with an opening for receiving said nozzle and having its apex
10 provided with a discharge opening, said member serving to break the force of discharge.

2. The combination with a discharge nozzle of machines for the working of lime or
15 the like, which nozzle has its under side

provided with an elongated discharge opening, of a bag-filling attachment therefor comprising a hollow conical shaped member having its large upper end closed and provided with an opening into which the nozzle
20 snugly fits, the opening being partially formed in such upper end to adjacent its center, said member having its apex provided with a restricted discharge opening. 25

In testimony whereof, I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

CHARLES H. BRICKER.

Witnesses:

LUCY SAMSEN,
IRA A. CLARK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
