

(No Model.)

E. NATION.
DUSTER.

No. 521,174.

Patented June 12, 1894.

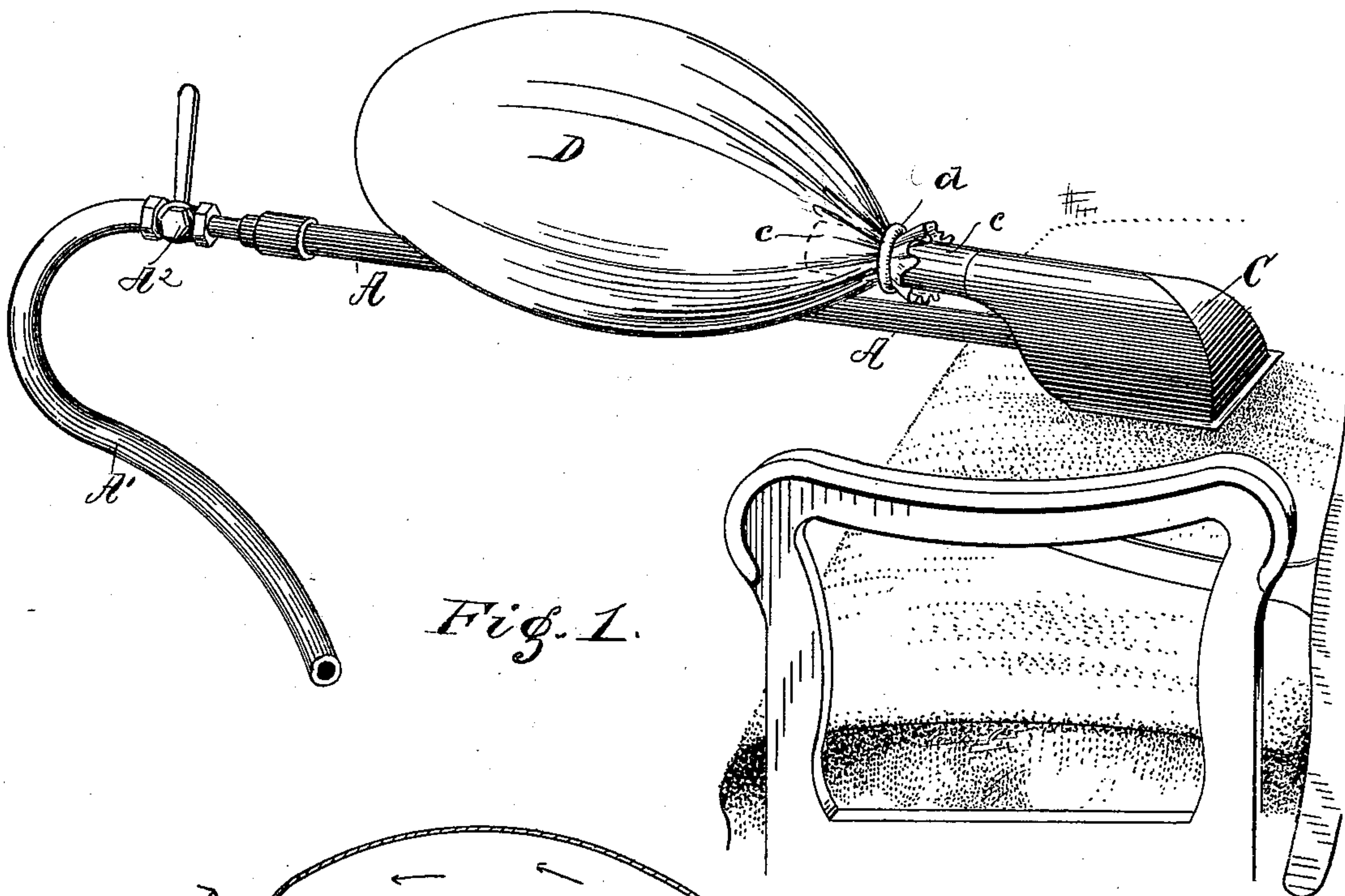


Fig. 1.

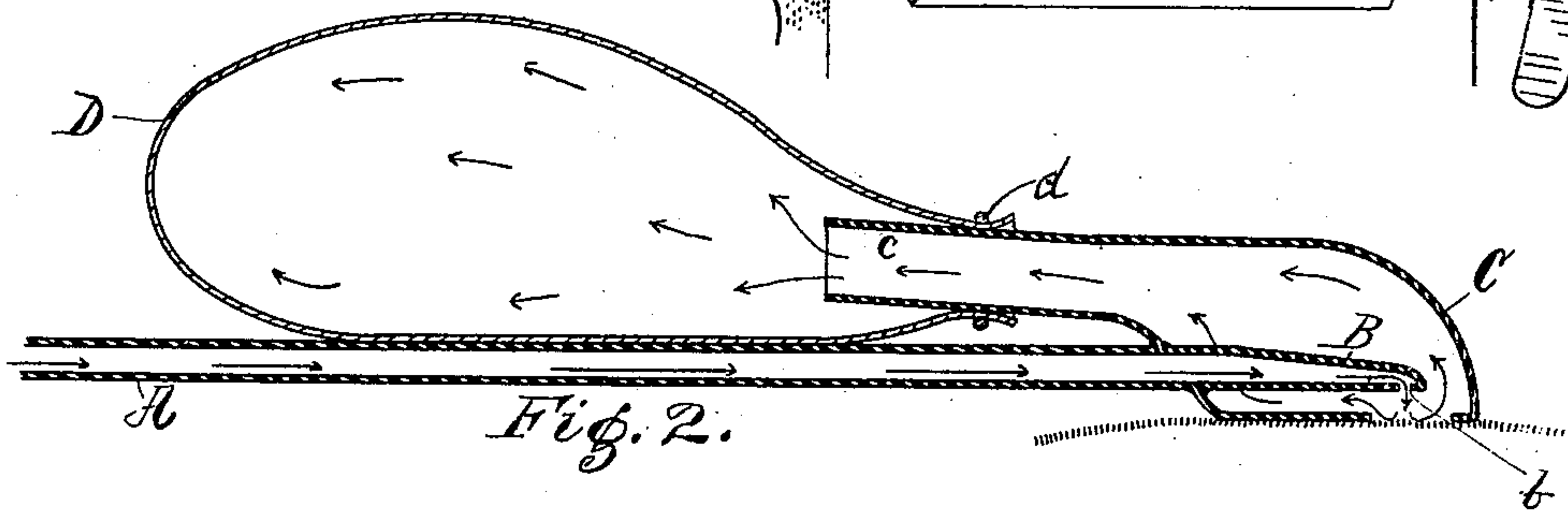


Fig. 2.

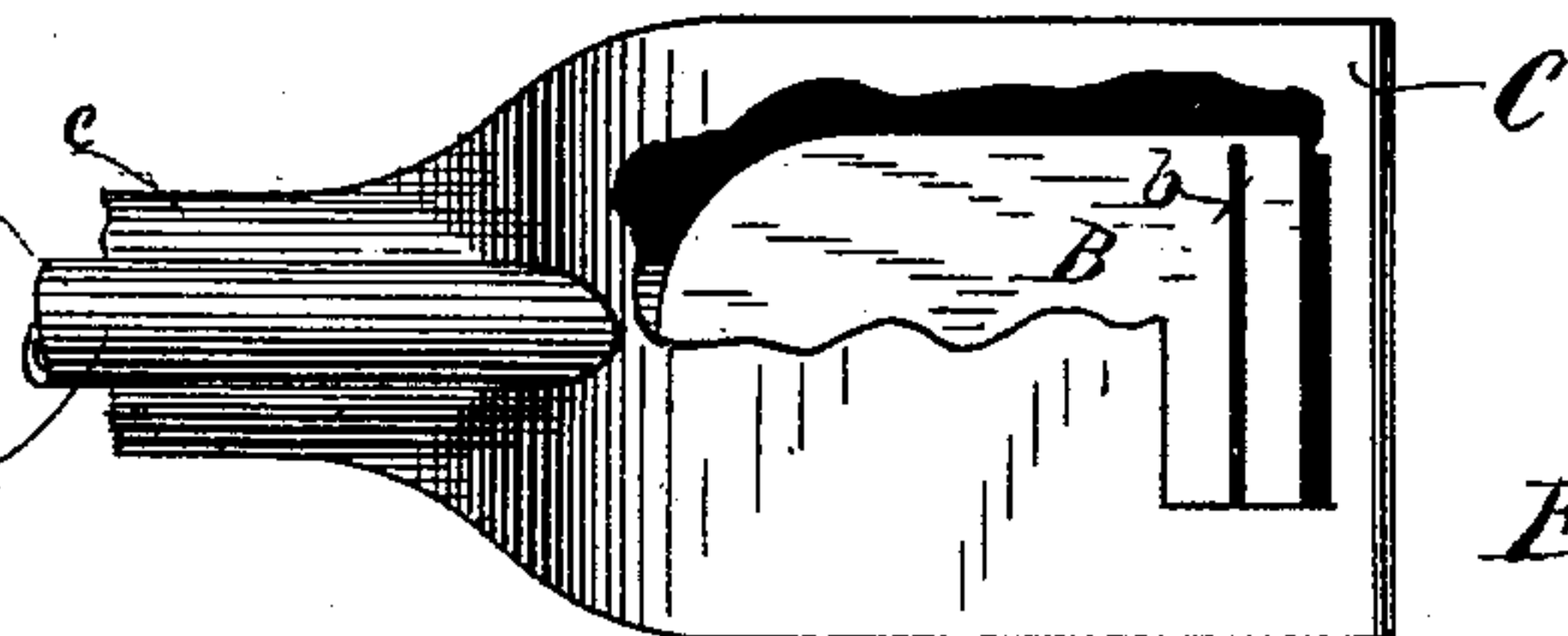


Fig. 3.

Witnesses:

P. D. Meany

W. L. Berkhong.

Inventor;

Enoch Nation

By Joseph A. Minturn

His Attorney.

UNITED STATES PATENT OFFICE.

ENOCH NATION, OF INDIANAPOLIS, ASSIGNOR TO WILLIAM E. NATION, OF KOKOMO, INDIANA.

DUSTER.

SPECIFICATION forming part of Letters Patent No. 521,174, dated June 12, 1894.

Application filed February 26, 1894. Serial No. 501,521. (No model.)

To all whom it may concern:

Be it known that I, ENOCH NATION, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Dusters; 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.

This invention relates to improvements in mechanism for cleaning carpets, velvets, furs and goods of any kind having a nap surface and will be found specially useful in dusting upholstered goods such as car seats, the object of the invention being to utilize compressed air as the active agent in liberating the foreign particles, and to provide means for straining the dust out of the air and retaining it while allowing the air to escape after it has been used.

The objects of this invention are accomplished by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of my complete duster and showing the method of applying it in dusting a car seat. The condensing pump and the chamber for the condensed air are not shown. Fig. 2 is a detail in vertical section of the device, in which the direction of the air is shown by the arrows. Fig. 3 is a detail showing an under side view of the head of the device where the air comes in contact with the goods to be cleaned.

Similar letters refer to like parts throughout the several views of the drawings.

A is a metallic tube which will serve the double purpose of an inlet through which the air to operate the duster will be conducted to the nozzle B, and as a handle by which the duster will be guided over the material to be cleaned. This tube may be bent in any desired shape that will best conform to the special work to be done, such as being curved upwardly for a device for dusting carpets, instead of being made straight as shown in the drawings.

A' is a flexible connection, preferably a rubber hose, by means of which the tube A will be placed in communication with an air tank, so as to be supplied with air through the hose

from the tank. The air will be condensed into the receiver or tank by means of a pump suitably arranged and connected.

A² is a valve in the tube A by means of which the supply of air may be cut off or the amount of supply regulated.

B is an expanded nozzle or head terminating the outer end of the tube A and is provided with the transverse opening *b*, on its under side arranged so as to give a direct downward course to the stream of air that will be allowed to escape through the opening under heavy pressure. The air thus liberated and coming violently into contact with the nap of the goods to be cleaned, dislodges every particle of dust and dirt, which in dusters of this class has been simply thrown into the air by the action of the current only to settle down again upon the goods afterward. To obviate this, which is one of the principal features of my invention, I provide the hood C to envelop the nozzle on all sides but so arranged as not to interfere with the free passage of the dust laden air as it leaves the goods. The hood will be made of any suitable material as sheet metal and shaped so as to guide and conduct the current of air with its impurities into a cloth sack D. This cloth sack will act as a strainer by allowing the air to pass through its meshes but retarding the dust and foreign matter which will not be able to pass through and will be accumulated within the sack. As shown in the drawings, the sack is removably secured to the hood by having the contracted portion *c*, of the hood C projected into the open mouth of the sack and the sack retained by means of an impinging rubber band *d*, or by simply tying the sack upon the hood with a cord. When it is desired to empty the accumulated dust, the sack is removed and the contents emptied.

Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. The combination with an air pump hose or a hose connected with a tank of compressed air and a nozzle terminating said hose and means for regulating the escape of air through the nozzle, of a hood enveloping the nozzle and having an opening opposite the outlet in

the nozzle through which the compressed air may be brought into contact with the goods to be cleaned, and an outlet from the hood terminating in a strainer by which the im-
5 purities may be deposited and collected in a body and the air allowed to escape.

2. The combination with an air pump hose or a hose connected with a tank of compressed air and a nozzle terminating said hose and
10 means for regulating the escape of air through the nozzle, of a hood enveloping the nozzle and having an opening opposite the outlet in the nozzle through which the compressed air

may be brought into contact with the goods to be cleaned, and having an outlet from the
15 hood terminating in a strainer, said strainer consisting in a cloth bag removably secured to the discharge outlet of the hood, substantially as described and for the purposes specified.
20

In testimony whereof I affix my signature in presence of two witnesses.

ENOCH NATION.

Witnesses:

JOSEPH A. MINTURN,
T. F. MEANY.