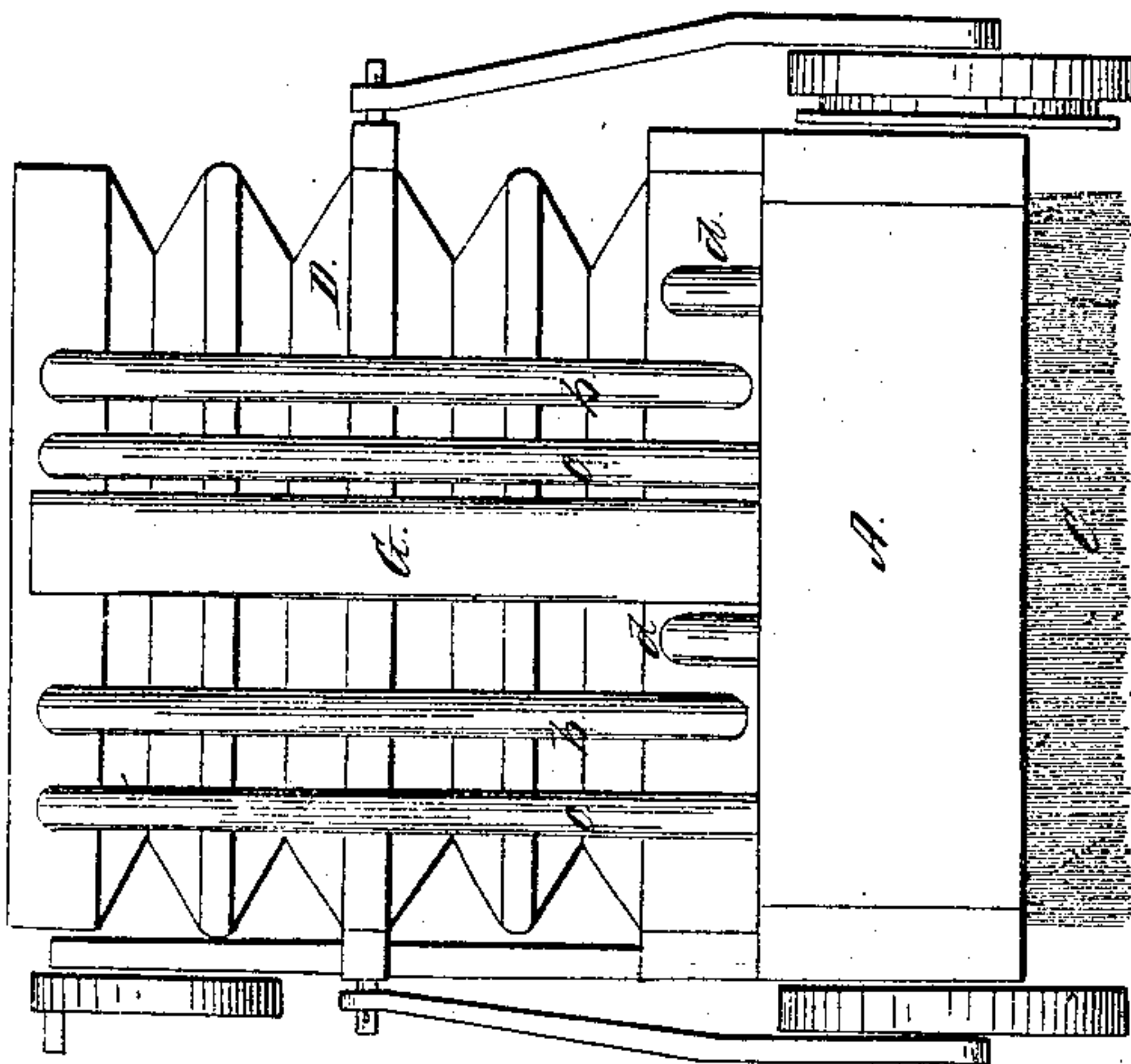
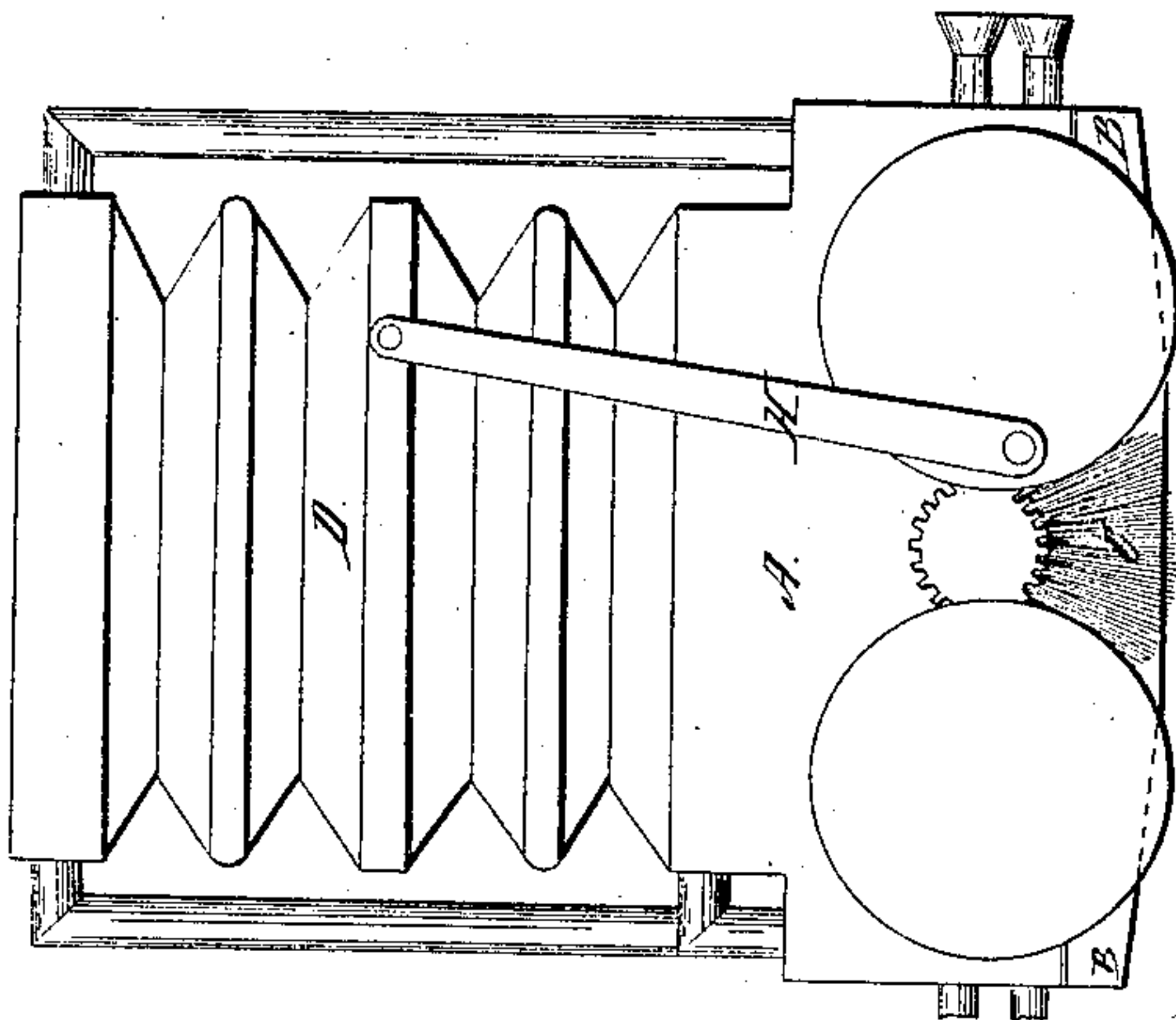
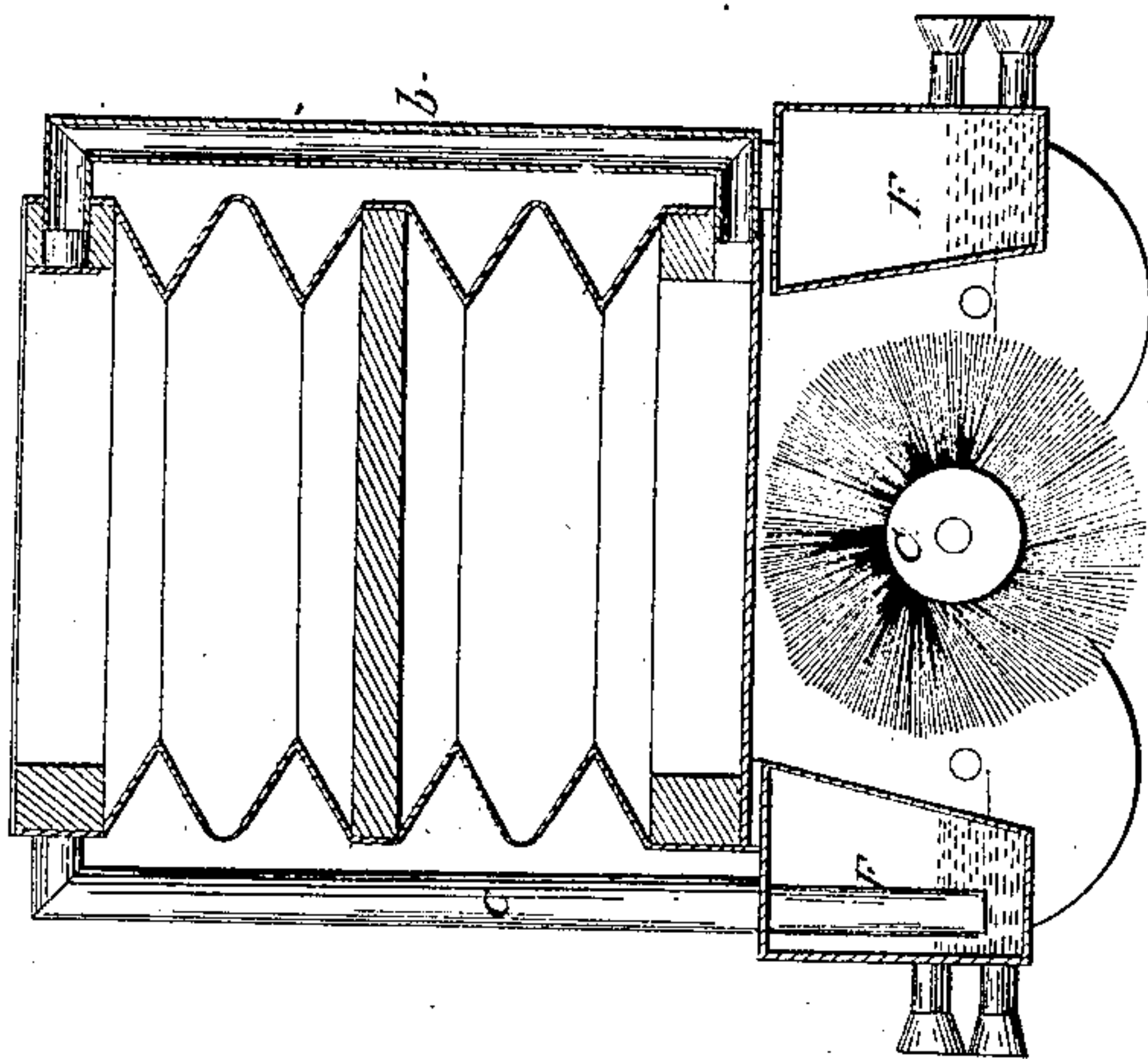


D. HESS.
CARPET SWEEPER.

No. 29,077.

Patented July 10, 1860.



Witnesses:
C. M. Alexander
C. W. Hanson

Inventor:
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UNITED STATES PATENT OFFICE.

DANIEL HESS, OF WEST UNION, IOWA.

CARPET-SWEEPER.

Specification of Letters Patent No. 29,077, dated July 10, 1860.

To all whom it may concern:

Be it known that I, DANIEL HESS, of West Union, in the county of Fayette and State of Iowa, have invented certain new and useful Improvements in Sweeping-Machines; 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.

The nature of my invention consists in drawing fine dust and dirt through the machine by means of a draft of air, and forcing the same into water or its equivalent for the purpose of destroying it substantially as will be hereinafter specified.

In the annexed drawings A represents a square frame which is supported upon wheels, in the manner in which sweepers are usually supported. About center way of this frame and across it is placed a revolving brush C which cuts through an opening in the dustbox B, which is secured to the bottom of the frame. This brush sweeps the surface over which the machine passes and the fine dirt and dust is drawn up as it arises from the brush. On top of the frame is secured a bellows D, which is divided so that it will create a continuous current of air up through the machine. The pipe (d) conducts air into the lower portion of the bellows and the pipes b, b conduct air into the upper portion. The dust and fine dirt accompanies the air in its passage to the bellows and from thence down to the water chambers F, F, through the pipes c, c and d, d. The water chambers are situated on the inside of the frame A and are made perfectly air tight. These chambers are filled about half or one third full of water and the ends of the pipes c, c, and d, d, extend down a short distance below the surface of this water. The object of this arrangement is this, the air and with it the dust and dirt which is drawn up by means of the bellows is forced down into the boxes or chambers F, F, and discharged below the surface of

the water—the dust &c. being caught and retained by the water, while the air passes off cleansed up the pipe G.

H, is a connecting rod which communicates motion from the driving wheels to the bellows. The bellows may be operated in this manner by the forward or backward motion of the machine, or it may be driven in any other desirable manner.

This machine may be constructed upon a large scale, and may be used as a street sweeper.

I may use other than this or this form of bellows for drawing in the air, my invention consisting not so much in the peculiar form of the several parts used, but in the destroying of dust &c. by submerging it in water or anything else which will retain it, allowing the air to escape freely.

It is clearly evident that if this machine is put in motion in a dusty room it will remove all of the dust from the atmosphere which passes through it. The heavy dirt and trash is swept up upon the ledges on the inside of the dustbox as seen and will there remain until removed by the operator.

When the water within the chambers F becomes dirty and foul it can be removed and a fresh supply put in.

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

1. The arrangement of the bellows D, with the water chambers F, F, and the brush C, the same being used and made to operate substantially as and for the purpose specified.

2. The arrangement of the pipes c, c, b, b, d, d, and G, with the bellows D, brush C, and water chambers F, F, whereby dust is drawn into the machine and submerged in water substantially as herein specified.

DANIEL HESS.

Witnesses:

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C. W. FRANZONI.