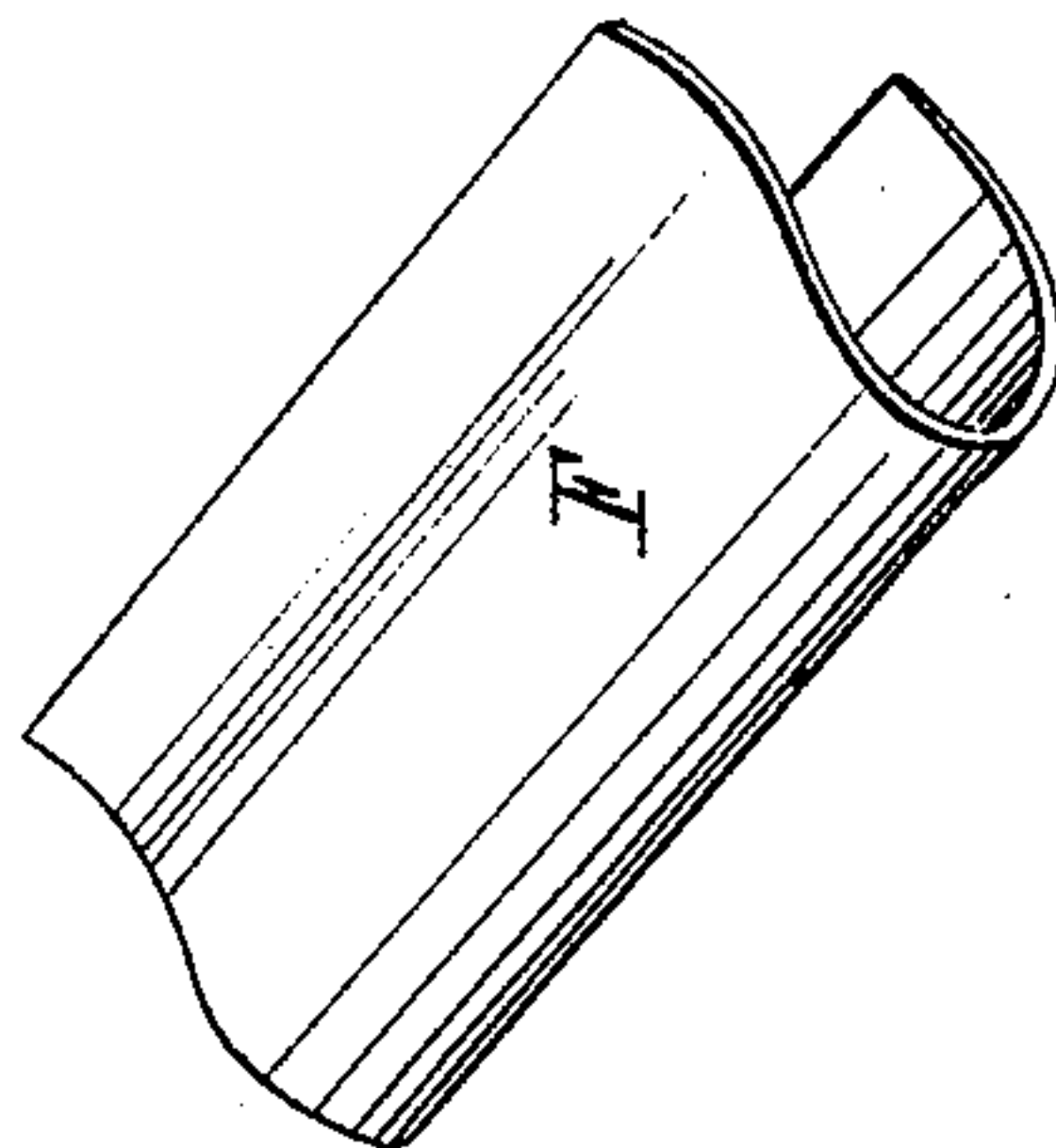
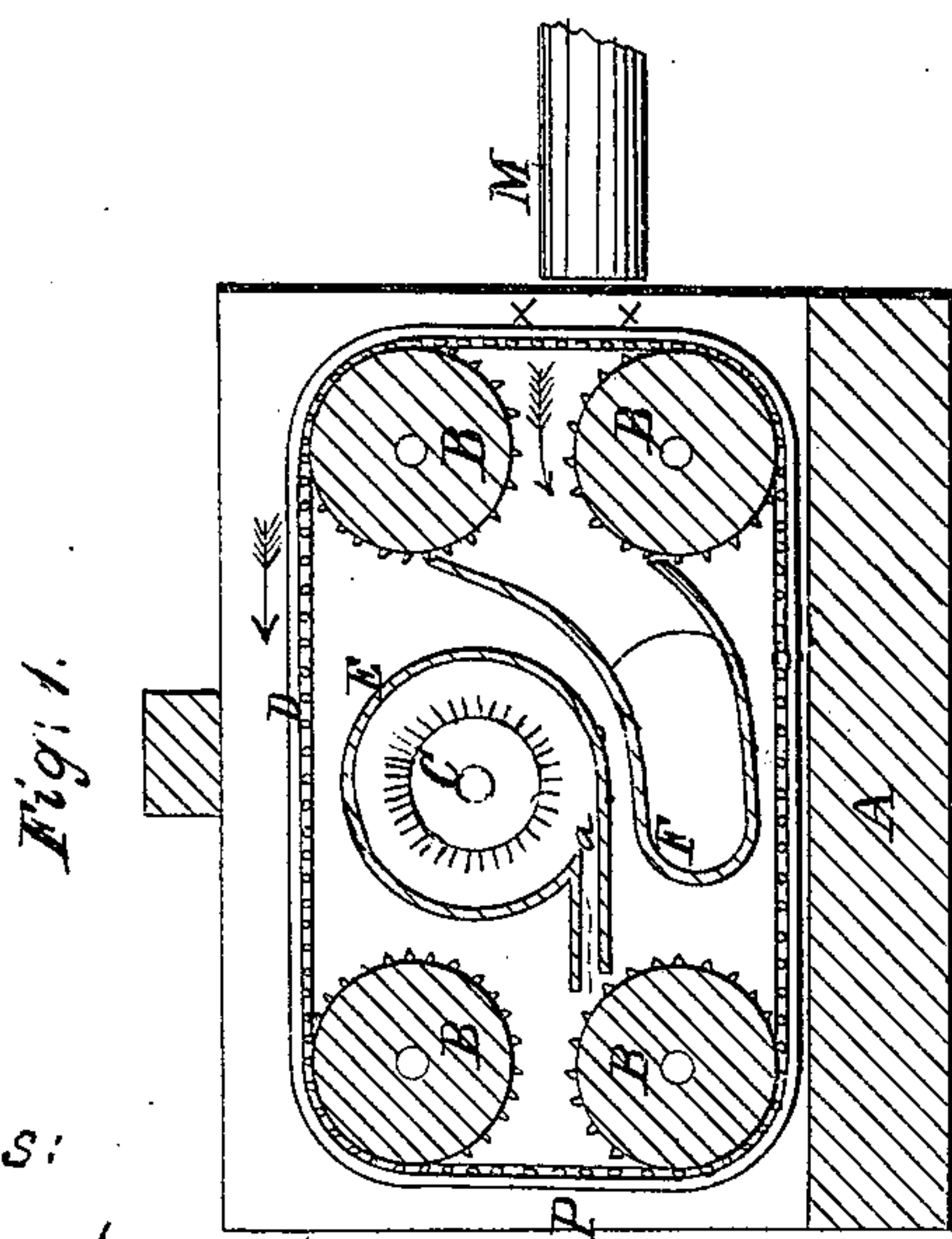
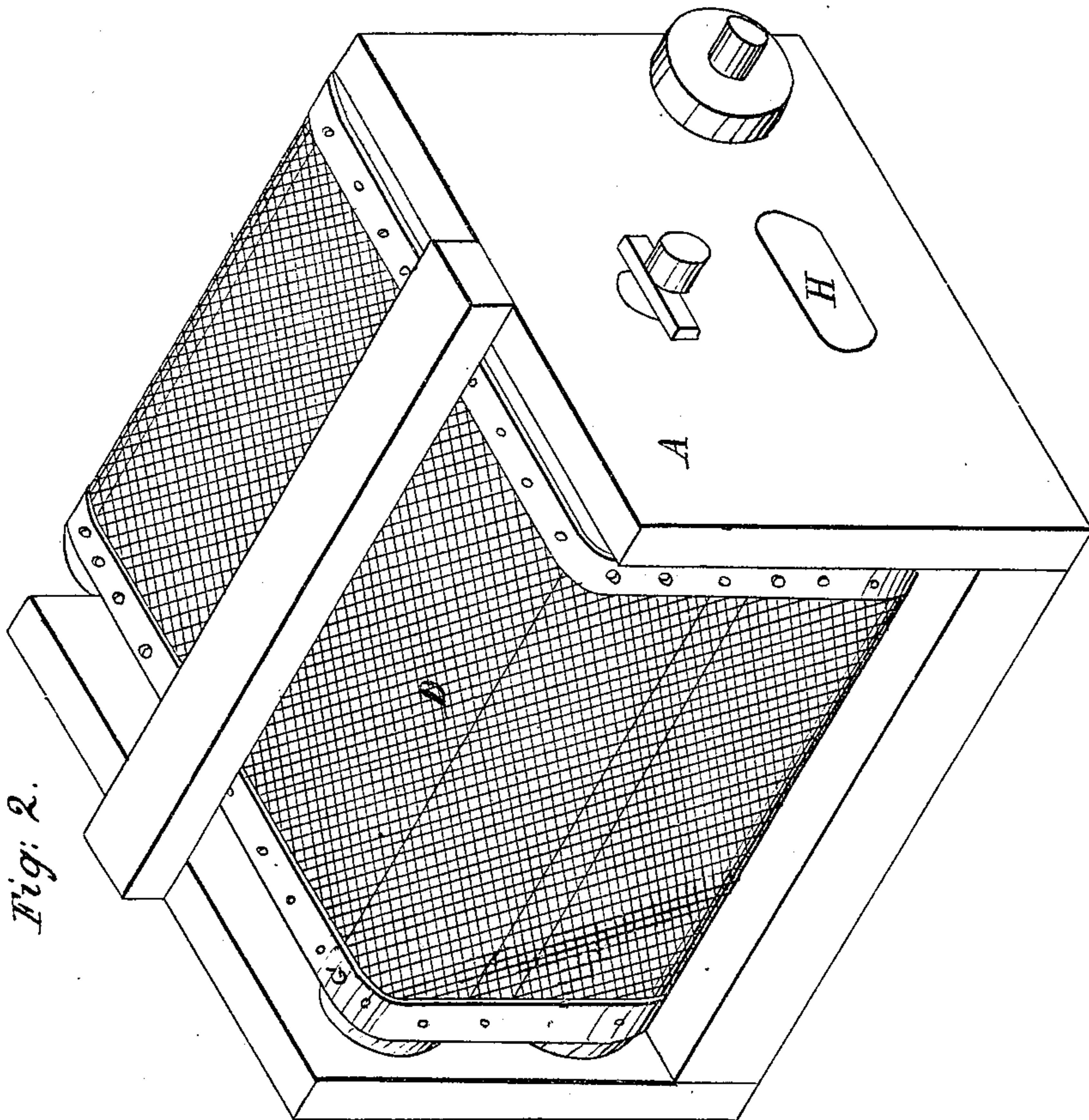


D. Hess.
Cotton Picker.

Nº 25,897.

Patented Oct. 25, 1859.



Witnesses:
G. M. Alexander
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Inventor:
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UNITED STATES PATENT OFFICE.

DANIEL HESS, OF WEST UNION, IOWA.

MACHINERY FOR CLEANING COTTON.

Specification of Letters Patent No. 25,897, dated October 25, 1859.

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 Machines for Cleaning the Dust from Cotton; 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 employing and arranging together those parts which will be hereinafter fully described.

In the annexed drawings Figure 1, represents a section of the machine. Fig. 2 is a perspective view.

A represents in the figures a rectangular or square frame, in which are contained and secured the rollers B, B, B, B, in the position shown in Fig. 1. Around these rollers passes an endless belt or bolting cloth D, the edges of said cloth being bound with leather, or some other strong material, in which small holes are made, which catch in teeth, or cogs, upon the cylinders for the purpose of carrying it around regularly and without slipping.

C represents a fan which is placed in a case marked E. Said case has an outlet air passage at *a*.

F, represents a piece of metal, bent some what in the form shown in Fig. 1, its two ends resting against the two front rollers as is shown in that figure.

In the operation of my invention the duster is made to stand in close proximity to the cotton gin, the flues which convey the cotton from the gin, carrying it up against the bolting cloth at *x, x*. The bolting cloth being set in motion by turning the rollers (B B) it is made to revolve around and around, while at the same time the blast from the cotton gin drives the cotton with force against said bolting cloth. As the cotton is driven in thin layers against the cloth it is carried up and at the same time the blast together with the concussion drives or forces the dust from the cotton through the bolting cloth. The dust is carried against the metallic piece F and passes out on each

side of the machine at the openings (H) in the side of the frame, said metallic piece F, passing entirely through the machine. The fan C is set in motion and a strong current of air, passing through the passage *a*, acts against the bolting cloth on the inside for the purpose of disengaging and throwing off any fibers of cotton which may be retained in the meshes of the cloth. The cotton is discharged from the cloth at or near P, on the opposite side of the frame from that at which it was received.

It will readily be seen that when the cotton is driven against the cloth by the blast from the gin that both the concussion and the blast have a strong tendency to drive the dust through the cloth, and also that should any of the fibers stick to the cloth they may be removed by the outward blast from fan C.

I do not propose to confine myself to the exact number of rollers herein shown as I may use more or less.

It is very obvious that slight changes may be made in the construction of this machine which would accomplish the same ends.

Any one acquainted with the raising of cotton and its liability to be filled with dust and dirt, will readily appreciate the utility of this machine to the interests of the cotton raisers of the south.

M represents in Fig. 1, one of the flues leading from the cotton gin, which flue it will be seen stands in close proximity to the duster for the purpose of conducting the cotton to the said duster after it has been ginned.

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

1. The curved metallic division F, in combination with the front rollers B B, and the bolting cloth, substantially in the manner and for the purpose set forth.

2. The combination of the fan C, and case E, with the back rollers B, B, and the bolting cloth D, for the purpose of cleansing the cloth from fibers of cotton substantially as specified.

DANIEL HESS.

Witnesses:

C. M. ALEXANDER,
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