MEGINNITY & DESSENGER.

Dressing Tobacco.

No. 82,144. Patented Sept. 15, 1868.

Fig. 3.

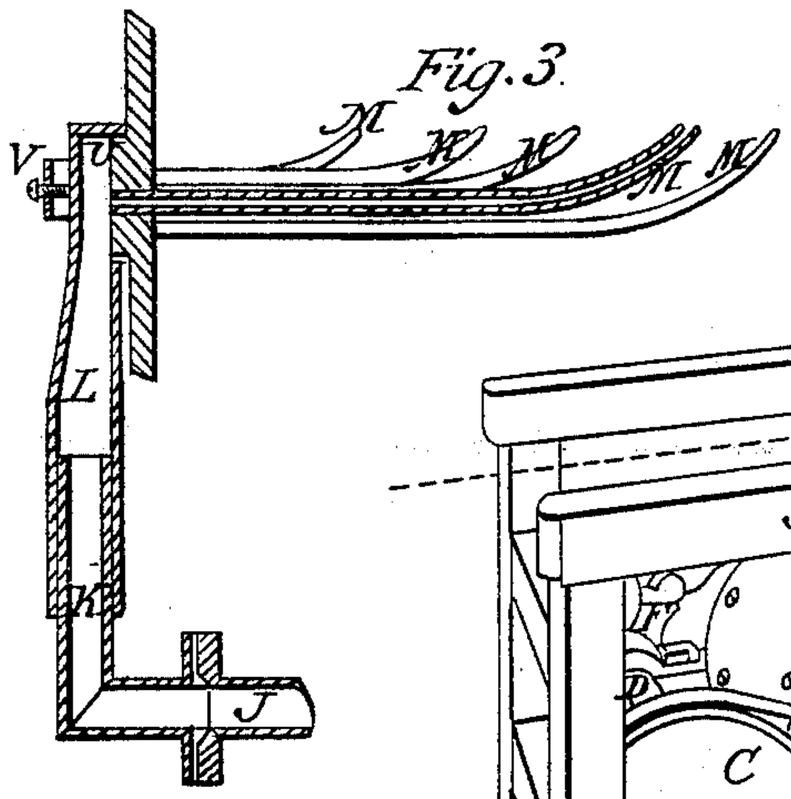


Fig. 1.

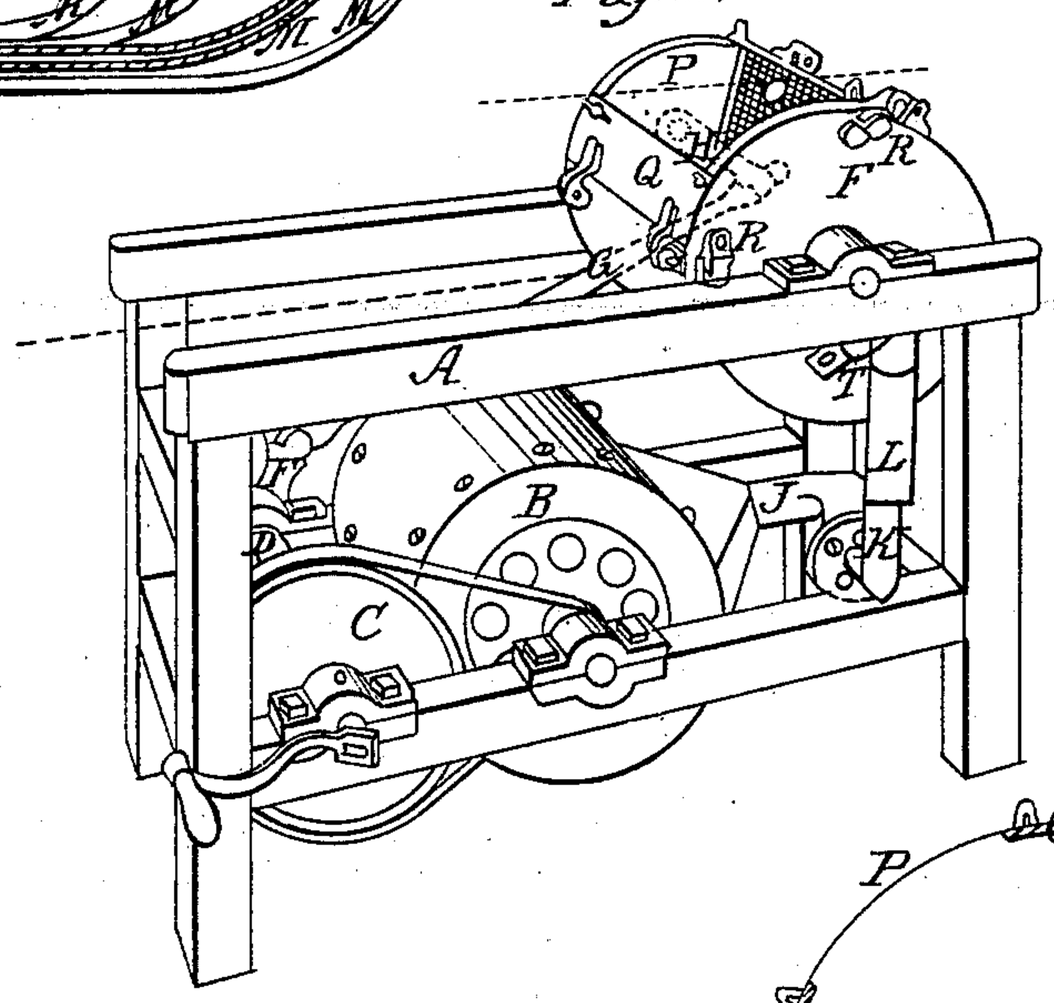


Fig. 4.

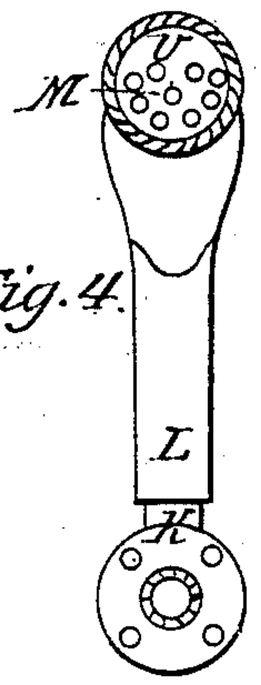
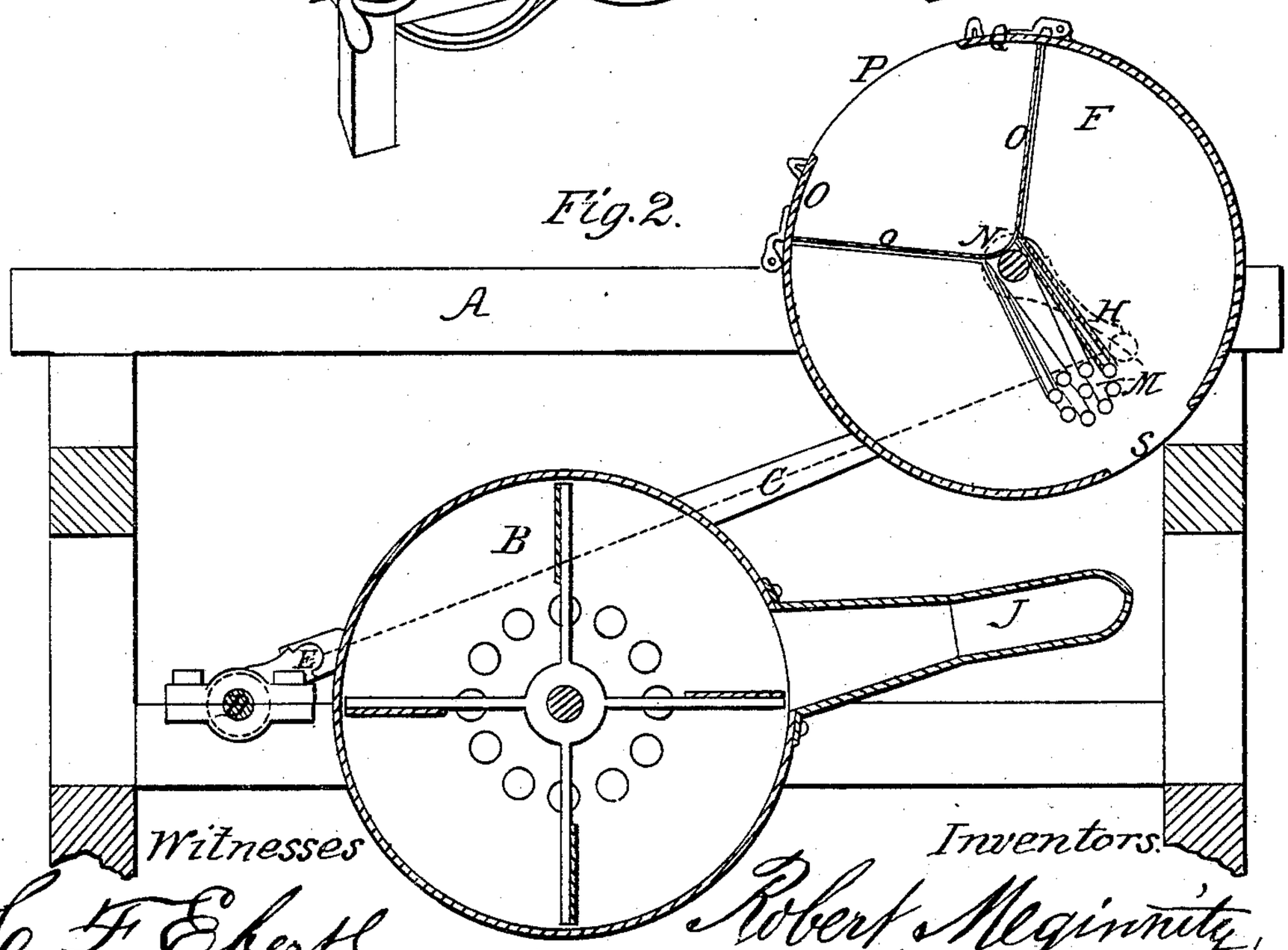


Fig. 2.



Witnesses

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ROBERT MEGINNITY AND JOSEPH DESSENGER, OF DETROIT, MICHIGAN.

Letters Patent No. 82,144, *dated September* 15, 1868.

TOBACCO-DRESSING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that we, ROBERT MEGINNITY and JOSEPH DESSENGER, of the city of Detroit, in the county of Wayne, and State of Michigan, have invented certain new and useful Improvements in Machinery for Shaking and Dressing Fine-Cut Tobacco, reference being had to the accompanying drawings, and to the letters of reference marked thereon, being part of this specification, in which—

Figure 1 is a perspective view of our invention.

Figure 2 is a longitudinal sectional view on lines *x x*, fig. 1.

Figure 3, a sectional view of the oscillating tuyere and its connections.

Figure 4, a perspective view of the oscillating tuyere and its connections.

The same letters indicate like parts in each figure.

The object of our invention is to construct an apparatus which will thoroughly "shake up" the fine-cut chewing-tobacco, loosening the matted fibres by means of a blast of air driven through the same, the "shorts" falling through proper sieves, and separated from the tobacco. The current of air passing through the fibres of the wet tobacco, fresh from the machine, loosens the same more effectually than when done by hand, and leaves it ready to be at once placed on the drying-frames, where, after being properly dried, it is again placed in our apparatus. It is thoroughly shaken, the fibres loosened, and the "shorts" separated, leaving it in better merchantable condition than can be produced by hand, without its attendant expense.

We will now proceed to describe our invention, and name its various parts, so that others skilled in the art can make and use the same.

A is a proper frame, supporting the fan-blower B, which is driven at a proper speed by a belt from the pulley C, on the driving-shaft D, near one end of the same. At the other end of the shaft is firmly secured the crank, E, operating the oscillating cylinder F by means of the connecting-rod G, rocker-arm H, and rock-shaft I, passing through and secured to the cylinder at a point below its axis.

J is the conducting air-pipe of the fan-blower B, and terminating in an oscillating tuyere, K.

L is the extension of the oscillating tuyere, and sliding thereon as a slip-joint, its upper end forming a trunnion, U, passing into the oscillating cylinder F, through an opening in its head underneath the rock-shaft I, and terminating in a series of blast-pipes, M.

T is a stirrup, on the end of the cylinder, which secures the trunnion U in its proper position by means of the adjustable step V.

N is a perforated tuyere-plate, secured in a horizontal position to the heads of the oscillating cylinder F, just above the rock-shaft, and perforated, to receive the ends of the blast-pipes M.

O O are inclined longitudinal screens or sieves, and secured in proper grooves in the heads of the oscillating cylinder F, upon which the tobacco to be dressed is placed.

P is an opening in the top of the oscillating cylinder, through which the tobacco is introduced, and which may be enlarged, for the purpose of removing the same, or for changing the screws, by opening the hinged doors Q, which are secured to the periphery of the cylinder by latch-bolts or any other device.

R are bumper-springs, secured to the heads of the oscillating cylinder F in such a manner that they strike the upper sides of the frame A just before the crank, E, passes the centres, the concussion of the bumper-springs against the frame, producing a jar or vibration in the cylinder and its screens O O, shaking the "shorts" cut of the tobacco, and turning the tobacco over at each oscillation. The "shorts," falling through the screens O O and opening S, are received in suitable trays placed under the apparatus; at the same time, the blast of air, passing from the blast-pipes M through the fibres of the mass, thoroughly loosens it.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The loosening of the fibres of fine-cut tobacco by a blast of air passing through the same.

2. The oscillating cylinder F, provided with the rock-shaft D, the inclined longitudinal screens O O, the perforated tuyere-plate N, the openings S and P, the doors Q, bumper-springs R, stirrup T, and step V, when arranged and operating in the manner described, and for the purposes set forth.

3. The fan-blower B, driving-shaft D, pulley C, crank, E, connecting-rod G, and rocker-arm H, the air-conducting pipe J, oscillating tuyere K, trunnion U, and blast-pipes M, when arranged and operating substantially as described, for the purposes specified.

4. The combination and arrangement of the above-named parts with the frame A, substantially as and for the purposes set forth.

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Witnesses:
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