

DICK & MUSSELMAN.

Tobacco Press.

No. 98,357.

Patented Dec. 28, 1869.

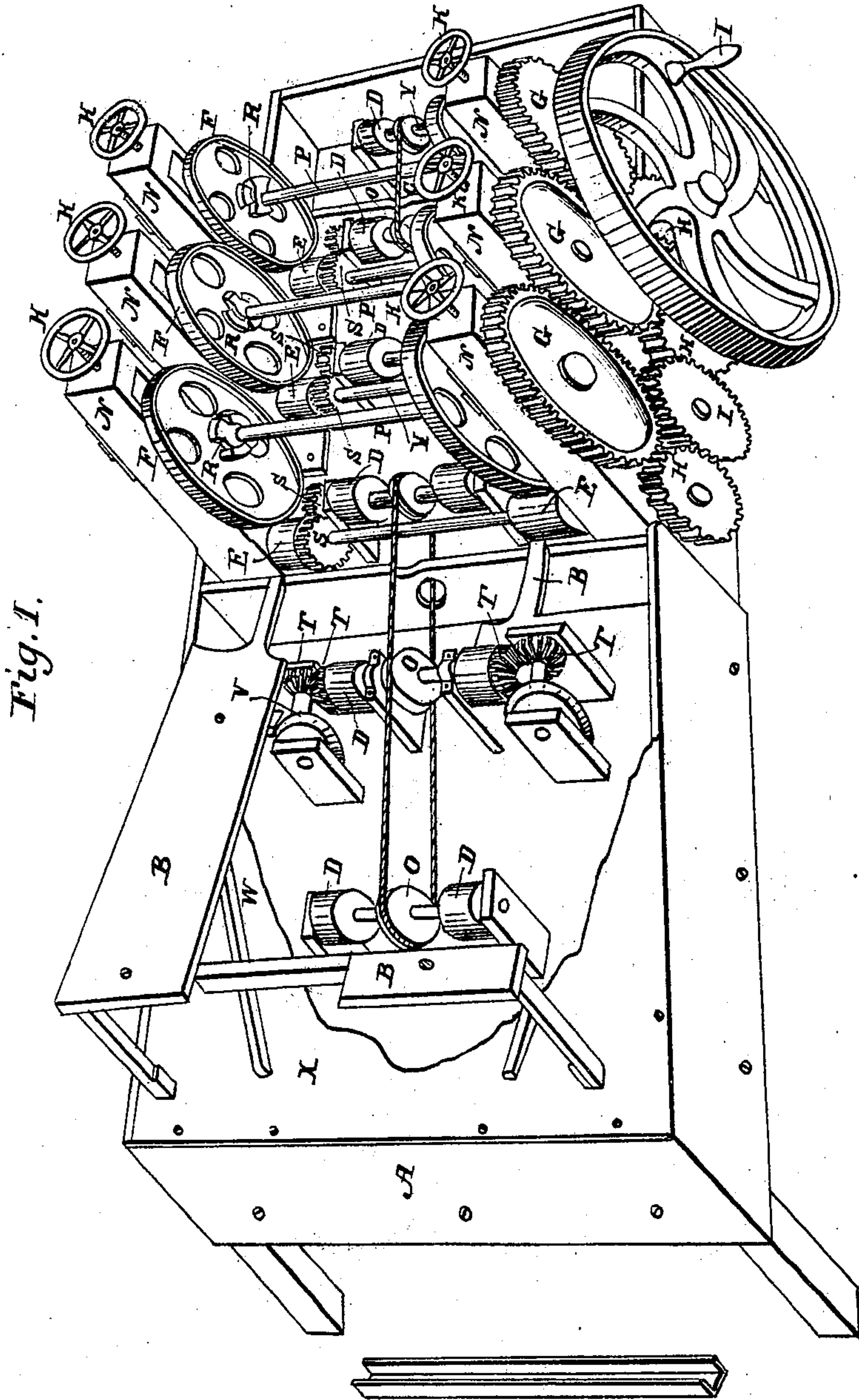


Fig. 1.

Fig. 2.

Witnesses:
Henry Hart
E. A. Mapother

Inventors:
Sampson P. Dick
David A. Musselman

United States Patent Office.

SAMPSON P. DICK AND DAVID R. MUSSELMAN, OF LOUISVILLE, KENTUCKY.

Letters Patent No. 98,357, dated December 28, 1869.

IMPROVEMENT IN TOBACCO-PRESSES.

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

To all whom it may concern:

Be it known that we, SAMPSON P. DICK and DAVID R. MUSSELMAN, of the city of Louisville, county of Jefferson, and State of Kentucky, have invented a new and useful Improvement in what is called "Withers's Tobacco-Press;" and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention consists in the construction, arrangement, and combination of parts, as hereinafter set forth.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation, by reference to the drawings, and to the letters of reference marked thereon.

Figure 1 is a perspective view of the machine, with the covering removed, in order to show more clearly the construction and arrangement of the several parts.

A is the table, which is usually made of wood.

X is a portion of the covering of the same.

N N N N N are the stands or bearings of the rolls.

K K K K K K are the small wheels, on the adjusting-screws, for the purpose of raising or lowering the rolls, so as to press thick or thin plugs.

Y Y Y are three small wrought-iron shafts, running entirely across the frame, on which the pinions S S S and rolls E E E are secured, between which, and the wheels F F F, the tobacco is pressed.

H H H are the pinions by which the above shafts are driven.

i i are stud-gearing, transmitting motion to the wheels H H H by the large pulley J.

G G G are cog-wheels, by means of which motion is transmitted to the upper rolls F F F, and by means of the shafts P P P and couplings R R R, to the rolls F F F, on the opposite side of the table, the above shafts, being disconnected at the rolls F F F, the end only entering the rolls about three-fourths of an inch, in order to permit the rolls to rise up, or to be lowered when desired.

D D are one of six or more friction-rollers, running in an opposite direction from that of the rolls E E E, for the purpose of returning the empty press-boxes to be refilled again.

S S S S S S are the small cog-wheels, for the purpose of reversing the motion of the rolls D D, causing them to run in the proper direction.

O O O O O are small sheave-pulleys, around which the small twisted leather belt C C works, transmitting motion to the rollers D D, which have no connection with the shaft Y.

V V are two small pulleys or rollers, placed at right angles with the rollers D D, driven by the mitre-wheels T T T T, for the purpose of throwing the last end of

the press-box over on the roller D, preparatory to its returning, the first end being thrown in position by means of the strips W W, on the top of the table.

B B B is an inclined platform, the end of which is pointed with iron, similar to a chisel, and, as the press-box passes out from under the rolls, this chisel-end enters the end of the box immediately under the tobacco, and raises it out of the box, causing it to run up on the platform B, while the box passes under, and is thrown over on the rollers D D, by which it is returned to be refilled.

Figure 2 is a view of the above-named press-box, showing its general construction.

Having thus fully described the construction of our invention, we will proceed to describe its operation, which is simply that of filling the press-box Z with tobacco, after which, pass it between the rolls E and F, which will press it to the desired thickness, when properly adjusted by the screws K K K above, which completes the process of pressing; after which it is taken off the platform B, and cut in small plugs, of a size to fit the finishing-moulds, where the process is completed. Therefore we do not claim anything as original in the construction of the above machine, so far as it has been legally claimed by Withers or other persons; but

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

1. In machines for making plug-tobacco, the combination of the shafts P with a roller, F, at each end, the rollers being connected with the shafts by means of a loose coupling, R, and the shafts Y, with rollers E E at each end, all arranged and operating substantially in the manner and for the purpose herein set forth.

2. The arrangement of the series of double rollers D D, pulleys O, pinions S S, and connecting-bands C, all operating substantially as and for the purpose specified.

3. The rollers V V, arranged as described, with relation to the rollers D D, and driven therefrom in the manner and for the purpose substantially as described.

4. The arrangement of the several series of double rollers F F, E E, D D, and V V, the pulleys O, toothed wheels S T, and bands C C, all operated by means of the gearing G G G H H i i, and drive-wheel J, all constructed and arranged to operate substantially as herein described.

SAMPSON P. DICK.

DAVID R. MUSSELMAN.

Witnesses:

HENRY HART,

E. H. MAPITHEL.