

W. W. Justis,

Making Plug Tobacco

N^o 29,976.

Patented Sep. 11, 1860.

Fig: 1.

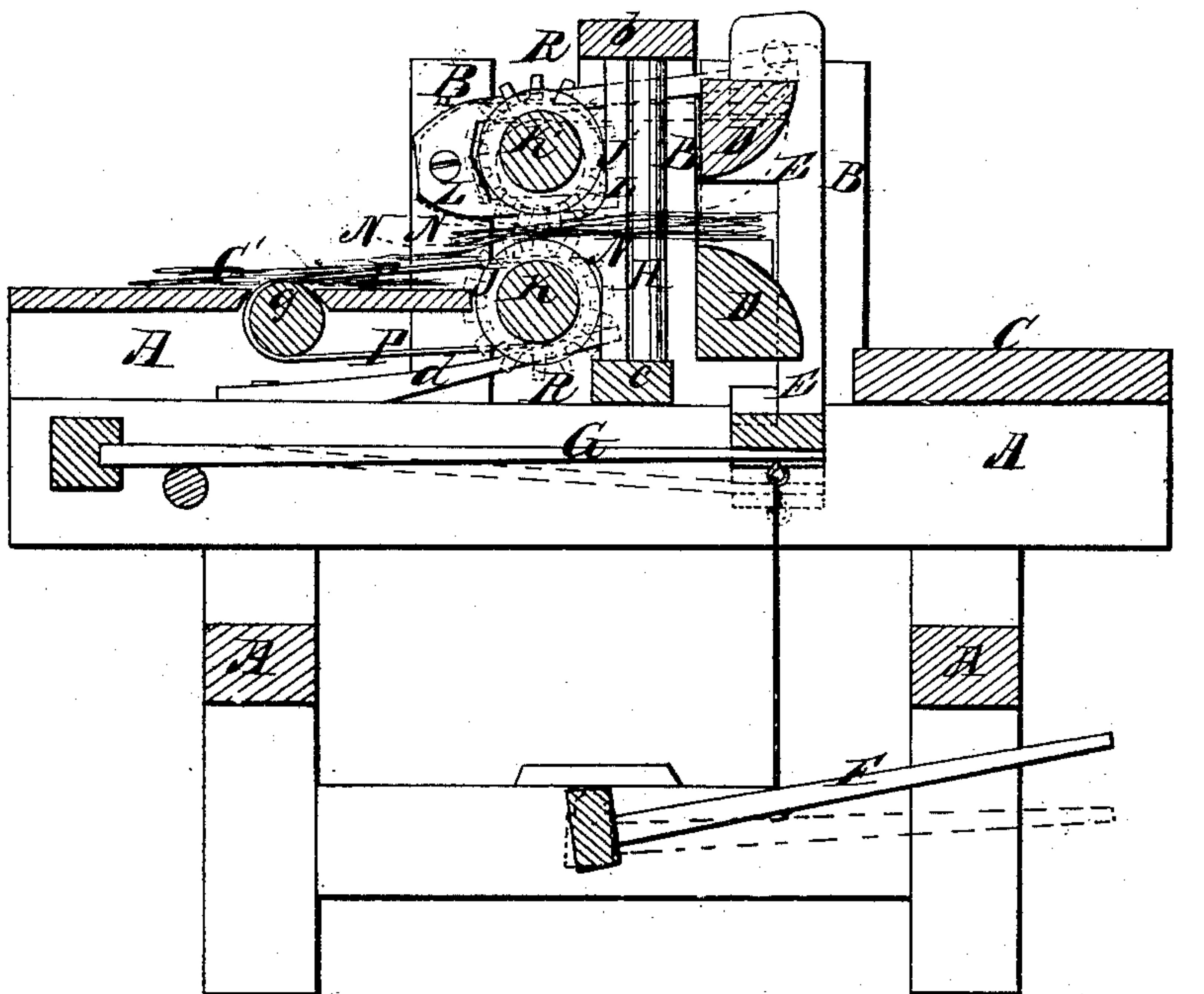
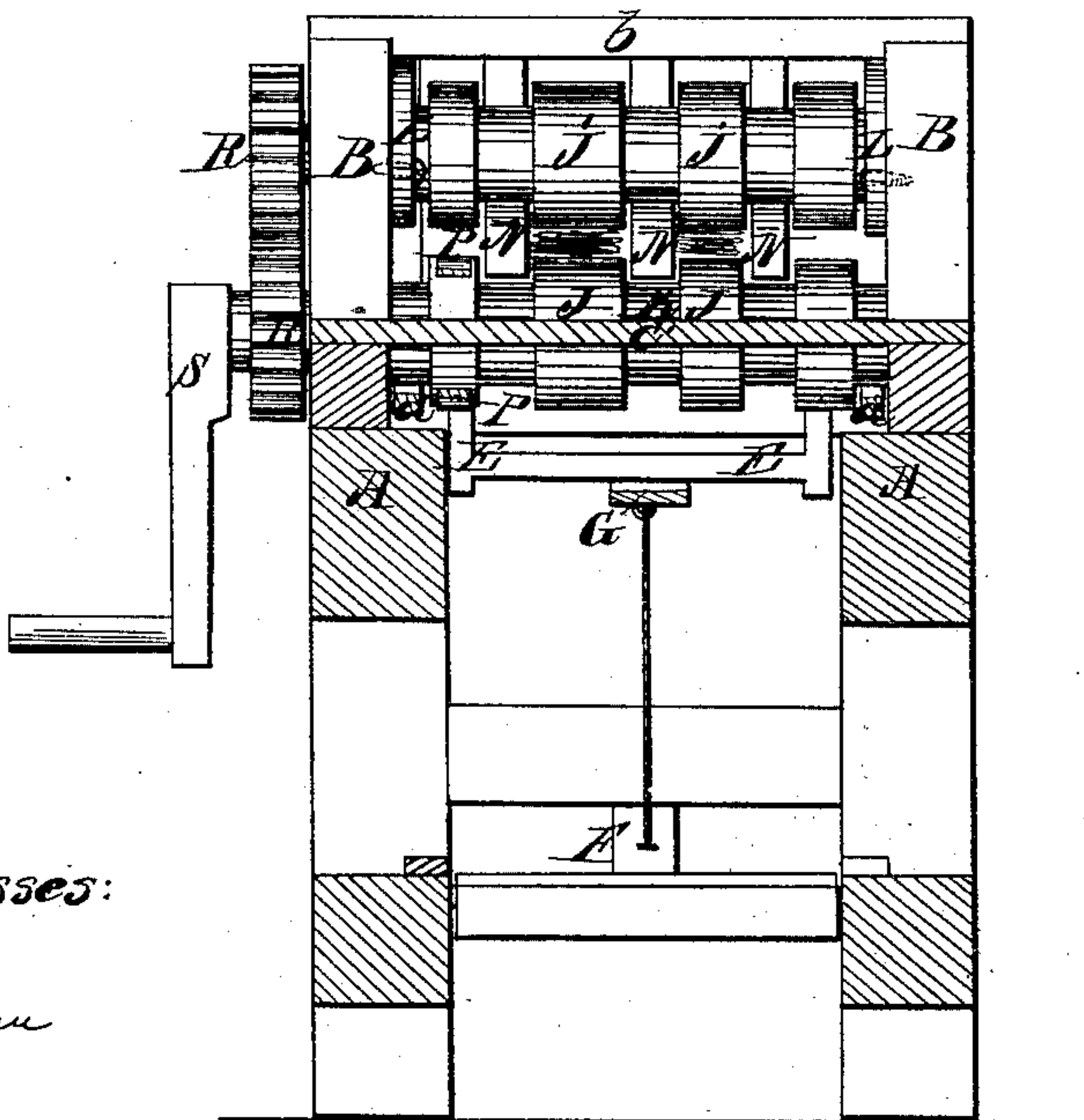


Fig: 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

WM. W. JUSTIS, OF GENITO, VIRGINIA.

IMPROVEMENT IN MACHINES FOR STRAIGHTENING AND PRESSING TOBACCO.

Specification forming part of Letters Patent No. 29,976, dated September 11, 1860.

To all whom it may concern:

Be it known that I, W. W. JUSTIS, of Genito, in the county of Powhatan and State of Virginia, have invented a new and Improved Machine for Rolling Straight and Pressing Tobacco; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical longitudinal section taken through the improved machine. Fig. 2 is a vertical transverse section taken through the machine in front of the rollers.

Similar letters of reference indicate corresponding parts in both figures.

This invention is an improved machine for straightening and pressing the leaves of tobacco into solid cakes or bars.

It consists in passing the bundles of leaves between adjustable parallel clamps, vertical guide-rollers and guides, and horizontal yielding rollers, arranged and operating in the manner hereinafter described.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is a strong table, having upright guides B B projecting up from each side, which latter support the rollers and guides between which the bundles of tobacco pass. The bundles of tobacco-leaves are laid on that portion of the table lettered C and passed between the horizontal bars D D', the upper one of which is fixed in the movable sash E, which is worked between the upright guides B B by a foot-lever, F. The ends of this bar D' pass between the uprights B on each side of the machine, so that the bar will rise and fall in a vertical plane with the lower stationary bar, D. By depressing the foot-lever F, the bar D' will be brought down on the bundle of leaves that is laid on the lower bar, D, and by relieving the bar F from pressure the spring G will elevate the bar D'. The two bars just described are for the purpose of clamping and straightening out the bundle in the first part of the operation. After the bundle of leaves passes between the two clamps D D', it is re-

ceived between perpendicular rollers H H, which gather the leaves and present them properly to the pressing rollers or drums J J. The rollers H H have their upper bearings in a cross-bar, b, and their lower bearings in a cross-bar, c. (Shown in Fig. 1.) The tobacco is guided by rollers H to the horizontal rollers J, which are enlarged cylindrical portions on a shaft, K, that has its end bearings on springs d d, and the ends of this shaft are between two of the upright guides B B. The rollers and shaft are thus allowed a yielding action as the tobacco passes between them and the upper drums or rollers, J', which are on a shaft, K', that has its end bearings in bifurcated levers L L, which are pivoted to two of the uprights B B, the upper arms of which levers proceed forward and are so attached to the sash-frame E that when this frame is depressed the upper drums, J', will be depressed also, as indicated by the red lines, Fig. 1.

Behind each roller H, and between each drum on roller J and J' when these are depressed, are arranged fixed guides or tongues N N, which prevent the tobacco from getting down between the drums. These guides keep the tobacco between the upper and lower drums until it is delivered out on the table C'. This table C' has a feed-roller, g, extending across it, its surface projecting just above the surface of the table. It is driven by an endless band, P, and carries off the pressed bundles after they have left the rollers J J'.

The twin spur-wheels R R, with a crank, S, or any other convenient means, may be used to give motion to the rollers.

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

The clamping-bars D D', sash-frame E, treadle F, perpendicular guide-rollers H H, and guides or tongues N N, with the movable drums J' and yielding drums J, the whole being combined, arranged, and operating in the manner and for the purposes herein set forth.

WM. W. JUSTIS.

Witnesses:

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