

R. B. DULA.
TOBACCO RACKING MACHINE.

Patented Sept. 22, 1891.

This technical drawing illustrates a mechanical device, possibly a printing press or a similar industrial machine, shown in a side elevation. The device consists of a large rectangular frame with vertical supports. A central vertical component, labeled 10, is positioned in the middle. Above this central component, there is a horizontal bar or beam, labeled 9, which is supported by a complex mechanism. This mechanism includes a series of small, rectangular blocks or rollers, labeled 1, 2, 3, 4, 5, 6, 7, and 8, which are arranged in a row. Arrows indicate the direction of movement or adjustment for these components. The drawing is a detailed line drawing with hatching used to indicate shading and depth.

FIG. IV is a perspective view of the chain drive mechanism. It shows three gears, labeled 10, 10, and 3, arranged in a triangular pattern. The gears are connected by a chain, labeled 9. The gear at the bottom is labeled 3, and the two gears at the top are labeled 10. The chain is shown in a perspective view, with links and pins visible. The entire mechanism is mounted on a base, indicated by a curved line at the bottom.

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ROBERT B. DULA, OF ST. LOUIS, MISSOURI.

TOBACCO-RACKING DEVICE.

SPECIFICATION forming part of Letters Patent No. 460,003, dated September 22, 1891.

Application filed January 27, 1891. Serial No. 379,240. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. DULA, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Tobacco-Racking Devices, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My present invention refers to certain improvements in the class of machines shown and described in my application for patent filed August 24, 1889, Serial No. 321,889; and my present invention relates to cutting devices for severing the tobacco that laps from one rack onto another, the invention consisting in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a top or plan view illustrative of my invention. Fig. II is an elevation of the gearing for operating the knife or cutter. Fig. III is a vertical section taken on line III-III, Fig. I. Fig. IV is a detail view illustrating the manner of connecting the cutting blocks or strips to the carrying-belts.

Referring to the drawings, 1 represents racks upon which tobacco is spread, as in my application referred to, by a suitable mechanism—as, for instance, such a mechanism as that shown and described in my application for patent filed August 24, 1889, Serial No. 321,888. A mechanical device of this or any other kind for spreading the tobacco upon the racks laps the tobacco from one rack onto another, so that it becomes necessary to sever the tobacco between the racks, and it is to a mechanism for doing this that my present invention relates. The racks 1 are carried upon endless belts 2, passing around supporting and operating drums 3, only one of which is shown, as to this my present invention does not re-

late. Secured to the belts, as shown in Fig. IV, at intervals apart equal to the width of the racks are blocks or strips 4, between which the racks are placed upon the belts. On the upper surface of these blocks rubber or other elastic strips 5 are placed, so as to form a good cutting-surface for the knife.

6 represents a rotary knife secured to a shaft 7, journaled in boxes 8, secured to the frame 9. The knife is operated by a belt-and-pinion connection 10 with the drum 3, (see Fig. II,) and the operating mechanism is so disposed that each time one of the cutting-blocks 4 comes over the drum 3 the knife will come down upon the block, as shown in Fig. III, and sever the tobacco lapping from one rack onto another.

Under my invention a very cheap and effective device is produced.

I claim as my invention—

1. In a device for racking tobacco, the combination of the racks, carrying-belts, cutting-blocks secured to the belts, and a knife, substantially as and for the purpose set forth.

2. In a device for racking tobacco, the combination of the racks, carrying-belts, cutting-blocks secured to the belts, and a rotary knife, substantially as and for the purpose set forth.

3. In a device for racking tobacco, the combination of the racks, carrying-belts, a drum over which the carrying-belts pass, cutting-blocks secured to the belts, a rotary knife, and a connection between said drum and the shaft of the knife, whereby the knife is caused to operate upon the said cutting-blocks as they pass over said drum, as specified.

ROBERT B. DULA.

In presence of—
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