

UNITED STATES PATENT OFFICE.

EDWARD HOLBROOK, JR., OF LOUISVILLE, KENTUCKY.

LUMP-TOBACCO CUTTER.

Specification forming part of Letters Patent No. 42,484, dated April 26, 1864.

To all whom it may concern:

Be it known that I, EDWARD HOLBROOK, Jr., of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and Improved Lump-Tobacco Cutter; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a plan of my improved cutter. Fig. 2 is a side elevation thereof. Fig. 3 is a vertical section of the same in the line $x x$, Fig. 1. Fig. 4 is a vertical section in the line $y y$, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in a machine of novel and simple construction whereby slabs of tobacco may be rapidly severed or divided into the pieces which are commonly termed "lumps."

The invention further consists in lubricating the knives or cutters to adapt them to more readily penetrate the tobacco and prevent the accumulation of the gummy matter thereof, all as will be hereinafter fully explained.

In order that others skilled in the art to which my invention appertains may be enabled to fully understand and use the same, I will proceed to describe its construction and operation.

In the accompanying drawings, A may represent various portions of a frame in which the several operating parts of the machine are mounted.

B represents a table, upon which the slabs are passed to the cutting apparatus.

C represents a roll, the shaft C' of which is journaled in suitable boxes in the frame A. This roll C is provided with a series of circular knives or cutters, c , which work in corresponding slots, b , in the inclined receiving-table B', said table performing the office of guiding the tobacco-lumps and removing from the roll C any matter which may adhere thereto while the machine is in operation.

D represents a pan or vessel placed beneath the roll C, and containing a liquid flavor,

through which the cutters c pass while being revolved, and by which they are lubricated in such manner as to adapt them to readily cut or penetrate the tobacco and prevent the gummy substance of the latter from adhering to the knives.

E represents a roll placed in parallel position to the roll C, and supported by the shaft E' at a point above said roll C; and in somewhat closer proximity to the feeding-table B. In this roll E are formed grooves into which work the cutters c , and which are kept clean or free from tobacco by pivoted scrapers e' .

F is a removable roll arranged to rotate in contact with the roll E, and having its periphery covered with felt or analogous material, which may be saturated with liquid flavor, so as to keep the roll in clean condition. The rolls C and E are rotated simultaneously through the medium of gearing G H, power being applied to the band-pulley I.

The manner in which the machine operates is clearly illustrated in Fig. 3. The slabs being successively passed between the rolls C and E are divided into lumps by the cutters c , and the lumps, when received upon the table B', are placed on a flat board, J, and deposited into a box or receptacle, K, one of these boards being interposed between each layer of lumps therein, as shown in Fig. 3.

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

1. The roll C, provided with knives or cutters c , and operating in connection with the roll E, substantially as and for the purpose specified.

2. The lubricating of the knives c in manner substantially as herein described, and for the purpose set forth.

3. In combination with the rolls C E, the inclined slotted table B' and roll F, to prevent the adhesion of the gummy matter of the tobacco, as explained.

EDWD. HOLBROOK, JR.

Witnesses:

CHARLES D. SMITH,
JAMES H. GRIDLEY.