(No Model.)

N. DU BRUL.

CIGAR COLORING MACHINE.

No. 249,029. Patented Nov. 1, 1881.

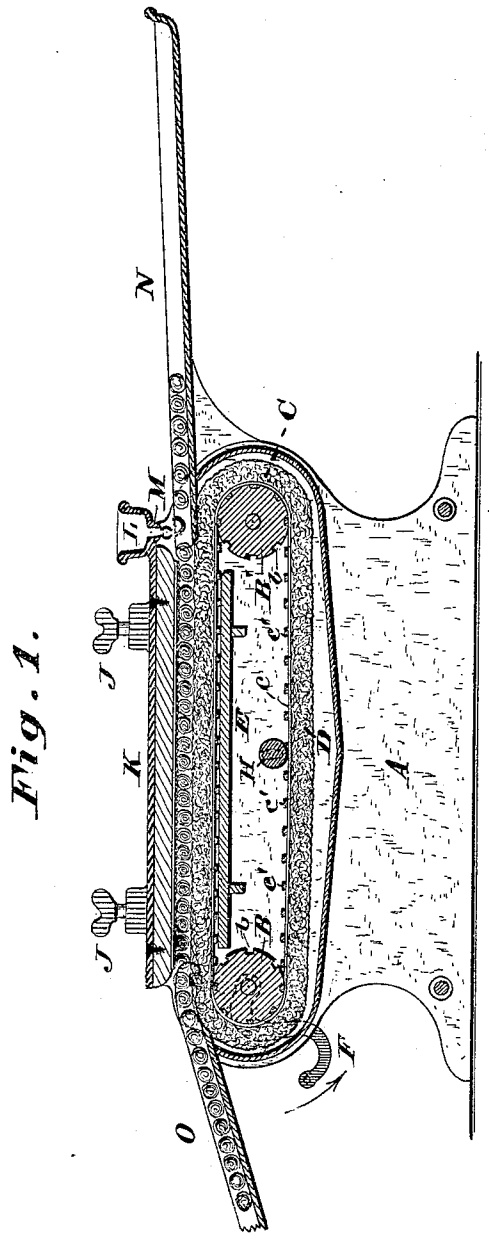


Fig. 1.

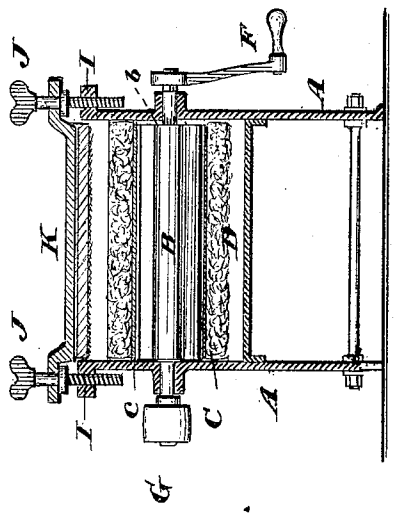


Fig. 2.

Attest:
W. Allen
L. B. Hopkins

Inventor
Napoleon DuBrul
By Knight Bros
Attys.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

NAPOLEON DU BRUL, OF CINCINNATI, OHIO.

CIGAR-COLORING MACHINE.

SPECIFICATION forming part of Letters Patent No. 249,029, dated November 1, 1881.

Application filed April 16, 1881. (No model.)

To all whom it may concern:

Be it known that I, NAPOLEON DU BRUL, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Machines for Coloring Cigars, of which the following is a specification.

My invention relates to improvements in those machines or devices for coloring or coloring and flavoring cigars in which the coloring-matter is applied by an automatic rolling action of the cigar in contact with a pervious and elastic cushion saturated with the material employed.

In my improvement the opposing surfaces of the rolling and color-imparting members are planes, of which one is provided with four adjusting-screws or adjustable rests, and is capable of being set parallel to or at any desired longitudinal or lateral inclination with the other member under every adjustment of distance therefrom. The employment of plane or flat operative surfaces enables them to be protracted to any extent that may be necessary for prolonged and efficient action without inconvenient bulkiness of machinery or the location of either the feeding or the delivering opening at an inaccessible distance from a single attendant.

In the accompanying drawings, Figure 1 is a longitudinal and Fig. 2 a transverse section of a machine embodying my invention.

Journaled horizontally in a suitable frame, A, are two sprockets, B B′, around which is stretched any suitable endless apron, C. The web *c* of this apron may consist of rubber belting-cloth, to whose interior surface is attached a series of cross slats or stretchers, *c′*, which, besides holding the apron to its proper width, engage in the notches *b* of the sprockets, so as to enable one of them, B, to impel the apron. Attached to the outer surface of the said apron is a lamina of sponge, D, or other bibulous and elastic material. Underneath the upper portion of the apron is a flat support or shelf, E.

To the impelling-sprocket B, is attached a suitable crank, winch, or handle, F, or a driving wheel or pulley, G.

The apron may be maintained at its proper tension either by a gravitating idler, H, or by making the bearings of one of the sprockets adjustable relatively to the other.

Screw-threaded lugs I, that extend horizontally outward from the frame A, receive adjustable screw-threaded rests, gages, or bearings J, preferably four in number, for the stationary member or platen K, which member is flat or plane, as shown.

The under surface or operative face of platen K may be clothed by a layer of sponge, or by flannel, serge, or any other suitable material.

L is a reservoir for the coloring or coloring and flavoring material, and communicates at bottom with a rose or perforated pipe, M, from which said material drips in the desired quantity to saturate the spongy cushion D for the purpose of the machine.

In my preferred form the platen K presses by its weight on the procession of cigars, which are rolled along underneath it by the action of the apron; but to this pressure an absolute limit is set by the adjustable gages J. The flatness of the co-operating surfaces enables them to be set and maintained absolutely parallel or at any desired convergence toward the delivering end, whatever the distance which separates them, and they may by means of the gages J be set at any distance asunder without disturbing such parallelism or convergence.

N and O respectively represent suitable feeding and delivering chutes.

The pressure of platen K, instead of gravity, may depend in whole or part on springs.

Instead of the four adjustable rests, two only may be employed at or about the machine's mid-length.

A suitable chain or other device may be used instead of the driving-slats *c′*.

I claim as new and of my invention—

1. The combination of an endless apron, C, composed of or faced with bibulous and elastic material, a yielding flat platen, K, parallel or nearly parallel to said apron, means for supply of coloring, an apron-operating mechanism, and devices for feeding and delivering cigars, substantially as set forth.

2. The four adjustable rests or gages J, adapted to limit the downward play of the platen, in combination with the vertically-yielding gravitating platen K and endless apron, substantially as and for the purpose set forth.

In testimony of which invention I hereunto set my hand.

NAPOLEON DU BRUL.

Attest:

GEO. H. KNIGHT,

SAML. S. CARPENTER.