C. H. SCHNEIDER.

CIGAR BUNCHING-MACHINE.

No. 193,463. Patented July 24, 1877.

Fig: 1.

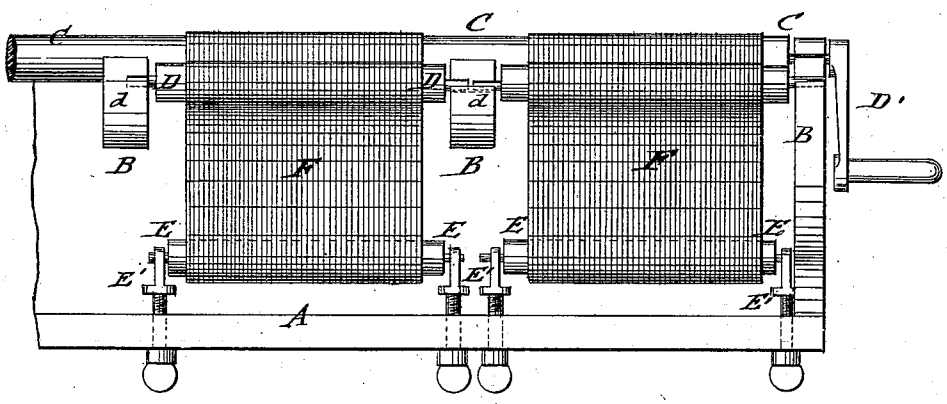


Fig: 2.

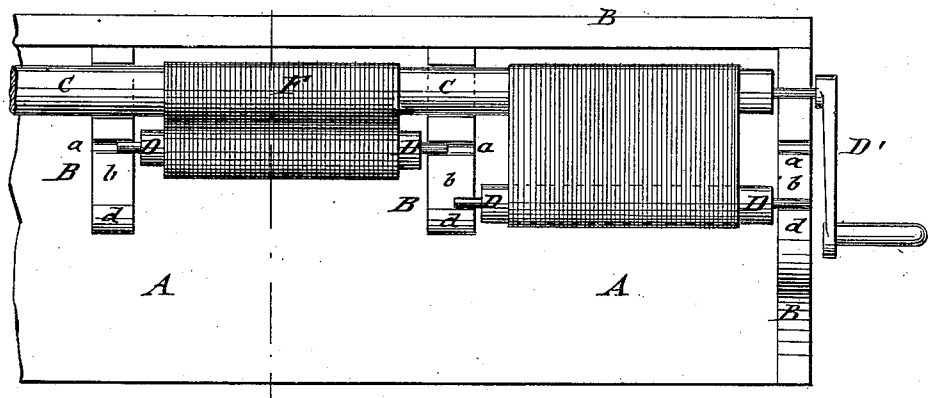
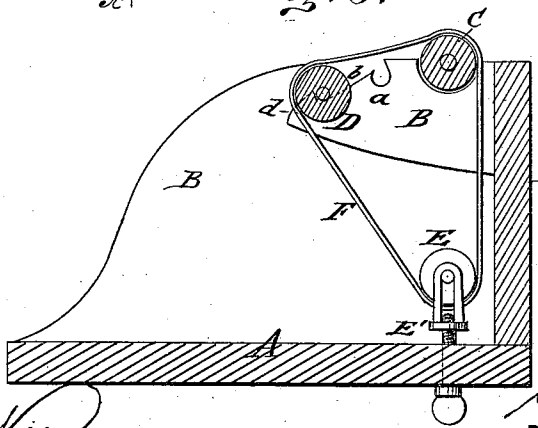


Fig: 3.



WITNESSES:

Chas. Nichols

J. H. Scarborough.

INVENTOR:

C. H. Schneider

BY

Munn & Co

ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES H. SCHNEIDER, OF COLD SPRING, NEW YORK.

IMPROVEMENT IN CIGAR-BUNCHING MACHINES.

Specification forming part of Letters Patent No. **193,463**, dated July 24, 1877; application filed May 5, 1877.

To all whom it may concern:

Be it known that I, CHARLES H. SCHNEIDER, of Cold Spring, county of Putnam, and State of New York, have invented a new and Improved Cigar-Bunching Machine, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a front view of my improved cigar-bunching machine; Fig. 2, a top view, and Fig. 3 a vertical transverse section of the same on the line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved machine for making cigar-bunches in rapid and uniform manner, so as to facilitate and expedite the manufacture of cigars; and the invention consists of a crank-roller, a sliding roller, moving along brackets, with inclined parts and recesses, a lower adjustable roller, and of an endless band or apron, that passes around the rollers and revolves with the same.

In the drawings, A represents a platform or table of any suitable length, upon which the operator places the material for making the bunches.

The platform or table A is provided with a number of brackets, B, that are recessed to provide bearings for the actuating-roller C, which runs along the entire length of the table, and is revolved by a hand-crank, D′, at one end.

The brackets B are provided in front of the crank-roller C with recesses *a*, and with beveled or inclined slides *b*, having end shoulders or rests *d* in front of the recesses *a*, for the purpose of moving and retaining a forming-roller, D, that slides by its shaft ends on the brackets, and is securely held in position when in the recesses *a*.

At suitable distance below the crank-roller C and sliding roller D is arranged a third roller, E, that is hung into bearings of adjustable thumb-screws E′, which are raised or lowered from below and adjusted to the thickness of the filler.

An endless belt or apron, F, of rubber, cloth, or other suitable fabric, extends around the rollers C, D, and E, and revolves with the same when the crank-roller C is turned.

The machine may be constructed of any suitable length, according to the size of the room, the crank-rollers being extended throughout the full length of the platform, while as many brackets, sliding rollers, aprons, and tension-rollers are arranged as may be disposed of thereon.

For working the machine, the binder is first placed upon the band or section of the apron F between the rollers C and D, the sliding roller having been placed into forward position, as shown in Fig. 2, against the shoulders of the brackets. The filler, of any size, is then placed upon the binders, the fingers readily determining when the required quantity of tobacco is therein. The binder and fillers are then gradually pressed down between the two rollers, the sliding roller D being brought forward on the inclines of the brackets until it comes in contact with roller C, when it drops into slots *a*, and remains in fixed position therein. After the whole series of aprons has thus been filled the crank-roller is revolved three or four times, and the bunches then taken out, being ready for the molds.

By arranging a number of aprons and rollers in one machine, the operator passes first along the entire series of aprons, and charges the same with binders and fillers, and turns finally the crank, forming the bunches, and throwing them out by a slight backward turn of the crank, enabling thus the turning out of a large number of uniform bunches in quick and economical manner.

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

The combination, in a cigar-bunching machine, of an actuating crank-roller, C, sliding forming-roller D, lower adjustable roller E, and revolving apron F, with supporting-brackets B, having recesses *a*, inclines *b*, and shoulders or rests *d* in front of the crank-roller, to be operated substantially in the manner described, and for the purpose set forth.

CHARLES H. SCHNEIDER.

Witnesses:

O. H. TERWILLIGER,

JAMES GARDINER.