[113.]

EDWARD A. METZ.

Improvement in Method and Apparatus for making Cigars.

No. 118,739. Patented Sep. 5, 1871.

FIG. 1.

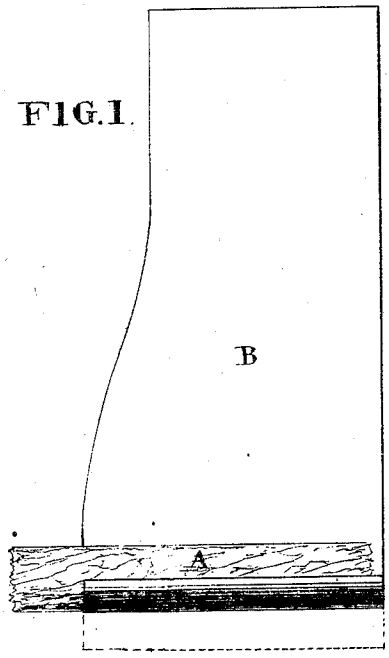


FIG. 2.

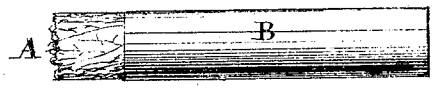


FIG. 3.

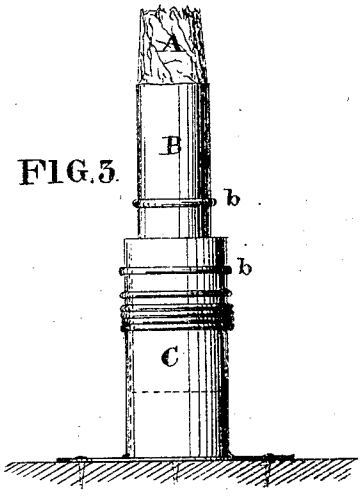


FIG. 4.

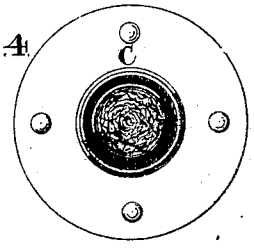


FIG. 6.



FIG. 5.

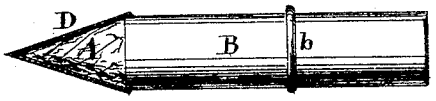


FIG. 7.

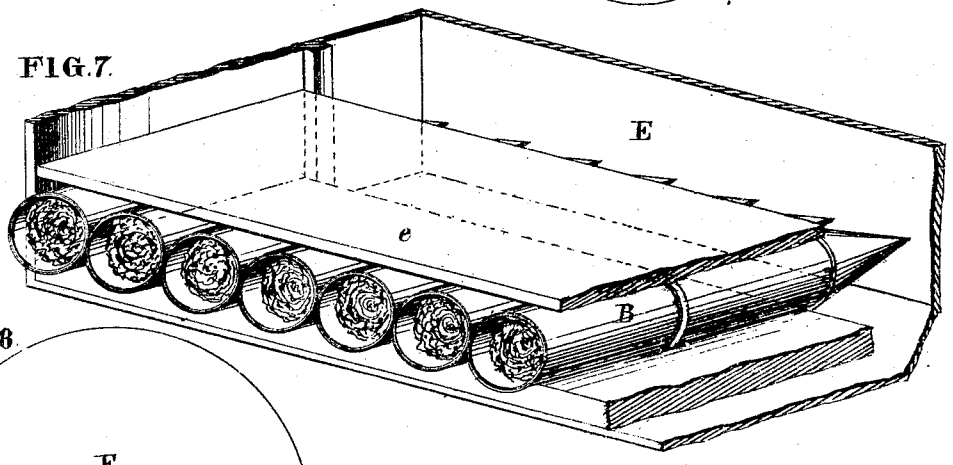
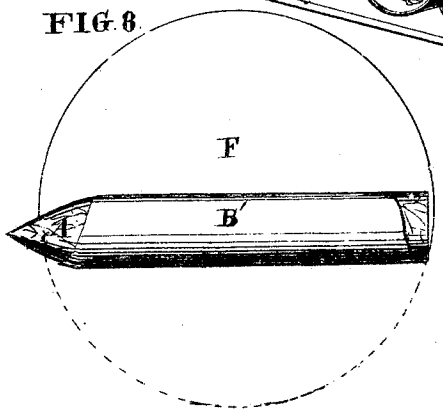


FIG. 8.



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UNITED STATES PATENT OFFICE.

EDWARD A. METZ, OF CINCINNATI, OHIO.

IMPROVEMENT IN METHODS AND APPARATUS FOR MAKING CIGARS.

Specification forming part of Letters Patent No. 118,739, dated September 5, 1871.

To all whom it may concern:

Be it known that I, EDWARD A. METZ, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and Improved Method and Apparatus for Making Cigars, of which the following is a specification:

The objects of the invention are to make cigars with greater rapidity than can be done in the ordinary process of making them by hand, and also to allow them to become sufficiently dry to be fit for use sooner than those made in the common manner. These objects are effected in the manner hereinafter set forth.

Figure 1 shows a prepared filler, with a binder in the act of being applied thereto. Fig. 2 shows the filler with the binder applied. Fig. 3 is a device for applying the bands which secure the binders to the fillers. Fig. 4 is a plan of the above device. Fig. 5 is a tip-mold applied to the free end of the filler. Fig. 6 is a different form of tip-mold, adapted for cigars of larger size. Fig. 7 is a perspective of a box in which the cigars are placed for drying, illustrating this part of the process. Fig. 8 shows a disk of paper or other material which is temporarily wrapped around the cigar after the same has been inclosed in its permanent wrapper, and illustrates the mode of applying said disk.

A represents the filler of the cigar, and B a temporary binder, of paper, cloth, or other suitable material. C is a device in which the cigar is placed while a band or bands, *b*, are slipped thereon to hold the binder in place. D D are tips of metal or other proper material for shaping the ends of cigars. E is a box containing the temporarily-wrapped fillers until sufficiently set to be permanently wrapped, and *e* is one of a series of removable partitions of any suitable thin material for separating the layers of wrapper-fillers in the box. B′ is the permanent wrapper, and F a disk or binder in which the cigar, after said wrapper is applied, is inclosed.

The filler A is rolled approximately into shape in the usual manner and laid upon one of the temporary wrappers or binders B, near the edge, when the wrapper is tightly wrapped around the filler. A layer of these binders of any convenient thickness may be laid on the rolling-table. One or more of the elastic bands *b* having been slipped over the device C, the wrapped filler is placed therein, as shown in Fig. 3, and the band *b* slipped over the wrapped filler, which is then removed and a tip-mold, D, pressed on the end thereof. As the tip of each cigar is shaped in this way the cigar is laid in the box E; and when a tier is full, one of the strips *e* is placed over, and successive layers of cigars are laid in this way until the box is full. They are allowed to remain in the box, say eight to twenty-four hours, until they have assumed their permanent shape, when they are removed and the permanent wrapper applied in the usual manner. Each cigar is now wrapped in one of the disks F and allowed to remain until the wrapper has become set to the filler, when the disk is taken off and the rough end of the cigar trimmed in usual manner.

The advantages of my process of making cigars are that by the employment of a temporary wrapper the filler can be more quickly made and the permanent wrapper more expeditiously applied than when both operations are performed continuously; that a smoother and more neatly-finished cigar is formed; and that the tobacco forming the filler is worked in a dry, or comparatively dry, state, and the moisture, if any remains, is principally evaporated therefrom previously to applying the permanent wrapper; the time required for drying is much reduced, and they are ready for use much sooner than those made in the ordinary manner.

I claim as my invention—

1. The method of forming cigar-fillers, by means of the removable binders B and headers D, in the manner herein described.

2. The receiver C, applied and used in the manner explained.

3. The method of imparting the final set or shape to the cigar, by means of the removable wrappers F applied on the outside of the permanent wrappers, as explained.

EDWARD A. METZ.

Witnesses:

OCTAVIUS KNIGHT,

WALTER ALLEN.