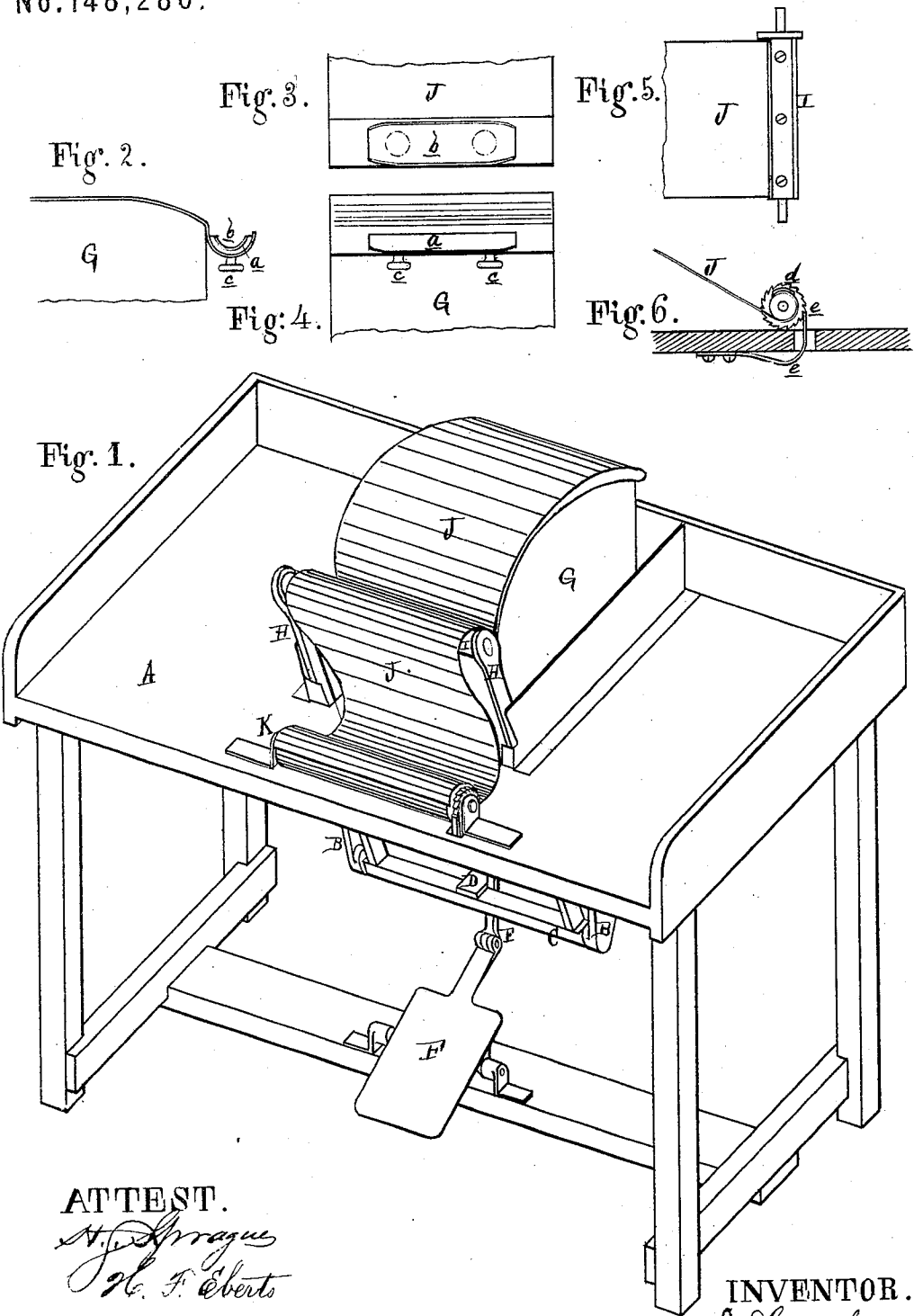


E. DEUTSCH.
Cigar-Bunch Machines.

No. 148,286.

Patented March 10, 1874.



ATTEST.
N. Sprague
H. F. Everts

INVENTOR.
E. Deutsch
per Attorney-
Mr. Sprague

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Fig. 8.

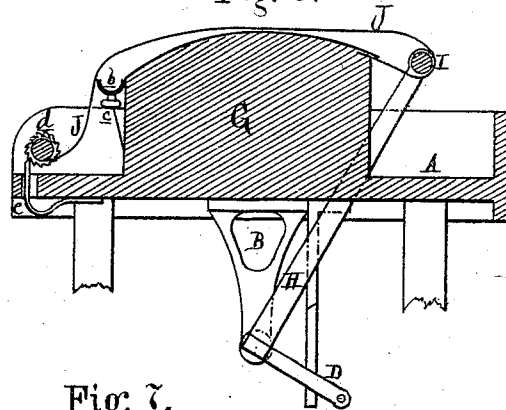


Fig. 9.

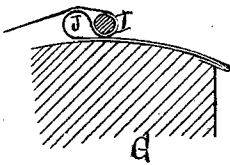
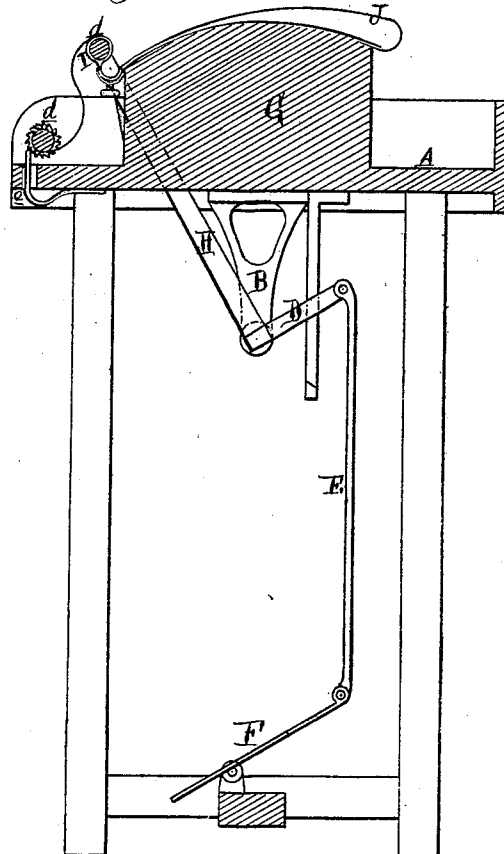


Fig. 7.



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UNITED STATES PATENT OFFICE.

EMILE DEUTSCH, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN CIGAR-BUNCH MACHINES.

Specification forming part of Letters Patent No. **148,286**, dated March 10, 1874; application filed August 25, 1873.

To all whom it may concern:

Be it known that I, EMILE DEUTSCH, of Chicago, in the county of Cook and State of Illinois, have invented an Improvement in Machines for Making Cigar-Bunches, of which the following is a specification:

This invention relates to a machine by means of which cigar-bunches may be accurately and rapidly formed and bound—that is to say, the bunch may be rolled and the binder run on it by a single movement of a treadle, whence the bunch goes into a press-mold preparatory to running on the wrapper. The invention consists in the peculiar construction and arrangement of principal parts employed in the operation of rolling the binders, all as more fully hereinafter set forth.

Figure 1, Sheet 1, is a perspective view of the machine. Fig. 2 is an end elevation of the trough and detachable filler-gage, which is shown in plan in Fig. 3, and in front elevation in Fig. 4. Fig. 5 is a plan of the stretcher-roller and a portion of the apron. Fig. 6 is an end elevation of the apron, roller, ratchet, and spring-pawl, the table being shown in cross-section. Fig. 7, Sheet 2, shows, in cross-section, the machine in position to receive the filler for a bunch, and the binder. Fig. 8 shows, in cross-section, the position of the parts after the bunch has been rolled and discharged. Fig. 9 is a cross-section, showing the position of the parts while rolling a bunch.

Like letters refer to like parts in the several figures.

In the drawing, A represents a rectangular table mounted on a suitable frame or legs, and having secured to its under side a pair of pendent brackets or hangers, B, in which is journaled a rock-shaft, C, having an arm, D, connected by a rod, E, to a treadle, F, pivoted in the lower part of the frame. G is a segment-shaped block, secured to the table-block in the radius of the axis of the rock-shaft C, to which are secured two arms, H, which vibrate in a slot at each side of the block G, their upper ends having journaled in them the ends of the roller I. The end of the block next the operator is rounded away below the arc of the remainder, and the upper surface is covered with a sheet-metal plate, which terminates in front in a filler-receptacle, *a*, in which is secured a metallic filler-gage, *b*, by means

of set-screws *c*, tapped through the bottom of the receptacle *a*. J is an apron or band of sheet-rubber, or other thin flexible, but strong, material, one end of which is secured under the back edge of the sheet metal which covers the block. The other end is secured to a drum, K, journaled in brackets on the table in front of the block. On one end of the roller is a ratchet, *d*, with which engages a spring-pawl, *e*, secured underneath and working through a slot in the table, the purpose of which is to put a proper degree of tension on the bunch while it is being rolled. If there happens to be a little more than the average volume of filler in the bunch, the spring-pawl will yield a little, so that it will not be rolled too tight, or tight enough to prevent it from "drawing" freely when smoked. The apron is passed from the back end of the block under and around the roller I; thence over the block and under the stretcher-drum. At the sides of the block are receptacles for "filler" and "binder" stock, and behind it another for finished bunches.

The filler-gages may be changed to the required sizes of bunches.

In operation, the bunch-maker places the requisite quantity of filler on the apron over the filler-gage, pressing down the apron into the gage. Between the crown and the forepart of the block he places a "booked" or dampened binder-leaf on the apron. Depressing the toe of the treadle, the roller I is carried over the top of the block, the apron rolling the binder on the filler, and discharging the bunch at the back end of the block. Reversing the treadle, the operation may be repeated. The bunches are then placed in press-molds, preparatory to having their wrappers rolled on.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the rock-shaft C, actuated by a treadle or other motor, the block G, arms H, roller I, filler-receptacle *a*, filler-gage *b*, and flexible apron J, substantially as and for the purpose set forth.

EMILE DEUTSCH.

Witnesses:

WM. H. LOTZ,
ABRAHAM GOTTLIEB.