

F. ZAHN.
MEANS FOR MAKING CIGAR FILLERS.
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1,060,876.

Patented May 6, 1913.

Fig. 1

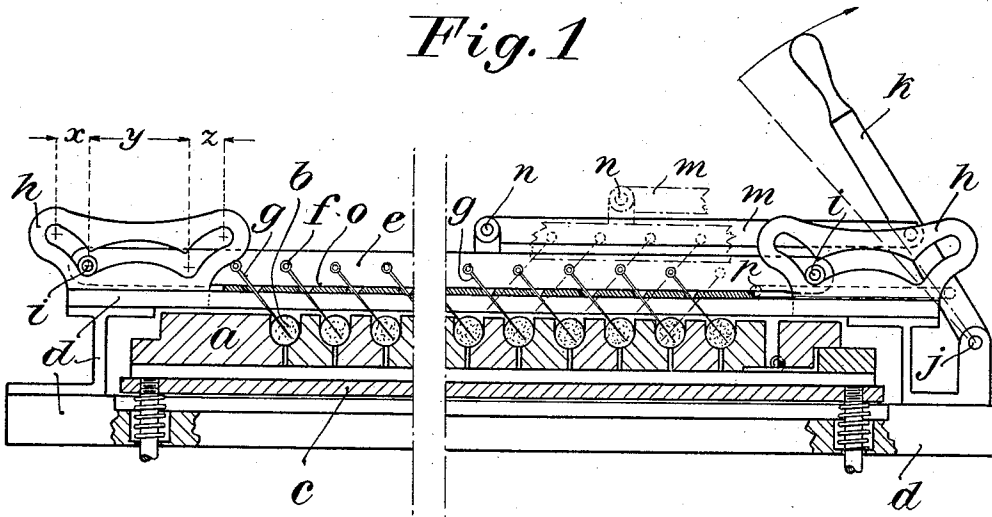
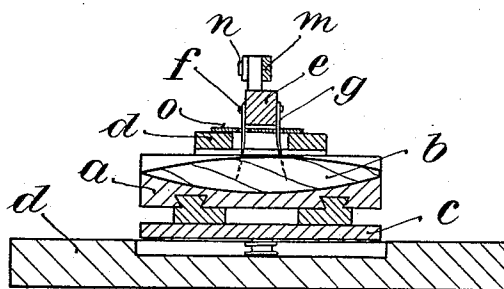


Fig. 2



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UNITED STATES PATENT OFFICE.

FRIEDRICH ZAHN, OF HANAU, GERMANY.

MEANS FOR MAKING CIGAR-FILLERS.

1,060,876.

Specification of Letters Patent.

Patented May 6, 1913.

Application filed November 22, 1912. Serial No. 732,978.

To all whom it may concern:

Be it known that I, FRIEDRICH ZAHN, a German subject, residing at Hanau-on-the-Main, German Empire, have invented new and useful Improvements in Means for Making Cigar-Fillers, of which the following is a specification.

This invention relates to means for making cigar-fillers and has for its object to enable all the fillers contained in a mold to be turned over in the excavations of the mold simultaneously. To such end, as is well-known in itself, pins are arranged to be introduced into the fillers crosswise thereof and be moved so as to turn the fillers.

The invention consists, broadly, in means for introducing all the pins at the same time into the respective fillers and in an inclined position, then rocking all the pins simultaneously so as to turn all the fillers, and finally extracting the pins from the turned fillers.

The invention will be understood from the following description and be particularly pointed out in the appended claims, reference being had to the accompanying drawing in which—

Figure 1 shows a longitudinal section of the improved device, while Fig. 2 represents a cross-section thereof.

The mold *a*, which in a well-known manner is adjustable in its length and receives the fillers *b*, is applied, as shown in the drawing, to the device forming the subject of this invention and which is constructed as follows: In a frame *d*, in which a bottom *c* is resiliently mounted, a bar *e* is movably disposed which carries the pins *g* articulated to the bar at *f*. This bar is guided so as to be able to be moved along the frame *d* while being lowered and raised. For this purpose the frame *d* is formed with at its ends with slotted guide pieces *h* engaging each a stud *i* which projects from the bar *e*. For moving the bar *e* a hand lever *k*, mounted in the frame *d* at *j*, is attached to the bar *e* by means of a link *m* connected with the bar at *n*. Below the bar *e* a guide bar *o* for the pins *g* is displaceably arranged on

the frame *d*. This bar *o* is connected with the lever *k* by a link *p* so as to share in the movements imparted to the bar *e*.

The device acts as follows: In the drawing, Fig. 1, the bar *e* is supposed to have performed, actuated by means of the lever *k*, a longitudinal movement such as indicated by the distance *x*, this position being shown in full lines, while the original position of the lever *k* is marked by a dotted line. Owing to this movement the pins *g* have been introduced into the fillers *b* by the pins *i* of the bar *e* sliding in downwardly inclined portions of the slots of the guide pieces *h*, as will be seen from Fig. 1. The movement of the lever *k* being continued in the direction of the arrow, the bar *e* is displaced along the mold *a* by the distance *y* indicated in Fig. 1, the corresponding portions of the slots of the guide pieces *h* being curved so that the bar *e* is to some extent raised and then lowered again. In this way the pins *g* are brought into a position symmetrically opposite to the one shown in full lines and the fillers *b* turned over as desired. By further rotating the lever *k* in the direction of the arrow the bar *e* is raised, owing to upwardly extending portions of the slots of the guide pieces *h*, the longitudinal travel of the bar *e* being indicated by the distance *z*. Hereby the pins *g* are extracted from the fillers, as shown in dotted lines. It will thus be seen that by one continuous manipulation of the lever *k* the pins *g* are inserted into the fillers, turned over with them, and extracted therefrom.

What I claim is:

1. In a device for molds for making cigar-fillers, in combination, a bar movable along the mold, pins articulated to this bar and adapted to project into the excavations of the said mold, and means for displacing the said bar longitudinally of the mold while lowering and raising the bar, substantially as and for the purpose set forth.

2. In a device for molds for making cigar-fillers, in combination, a bar movable along the mold, pins articulated to this bar and adapted to project into the excavations of

the said mold, means for displacing the said
bar longitudinally of the mold while lower-
ing and raising the bar, and means for
guiding this bar, substantially as and for
5 the purpose set forth.

In witness whereof I have hereunto signed

my name this fifth day of November 1912,
in the presence of two subscribing witnesses.
FRIEDRICH ZAHN.

Witnesses:

JEAN GRUND,
CARL GRUND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
