

(No Model.)

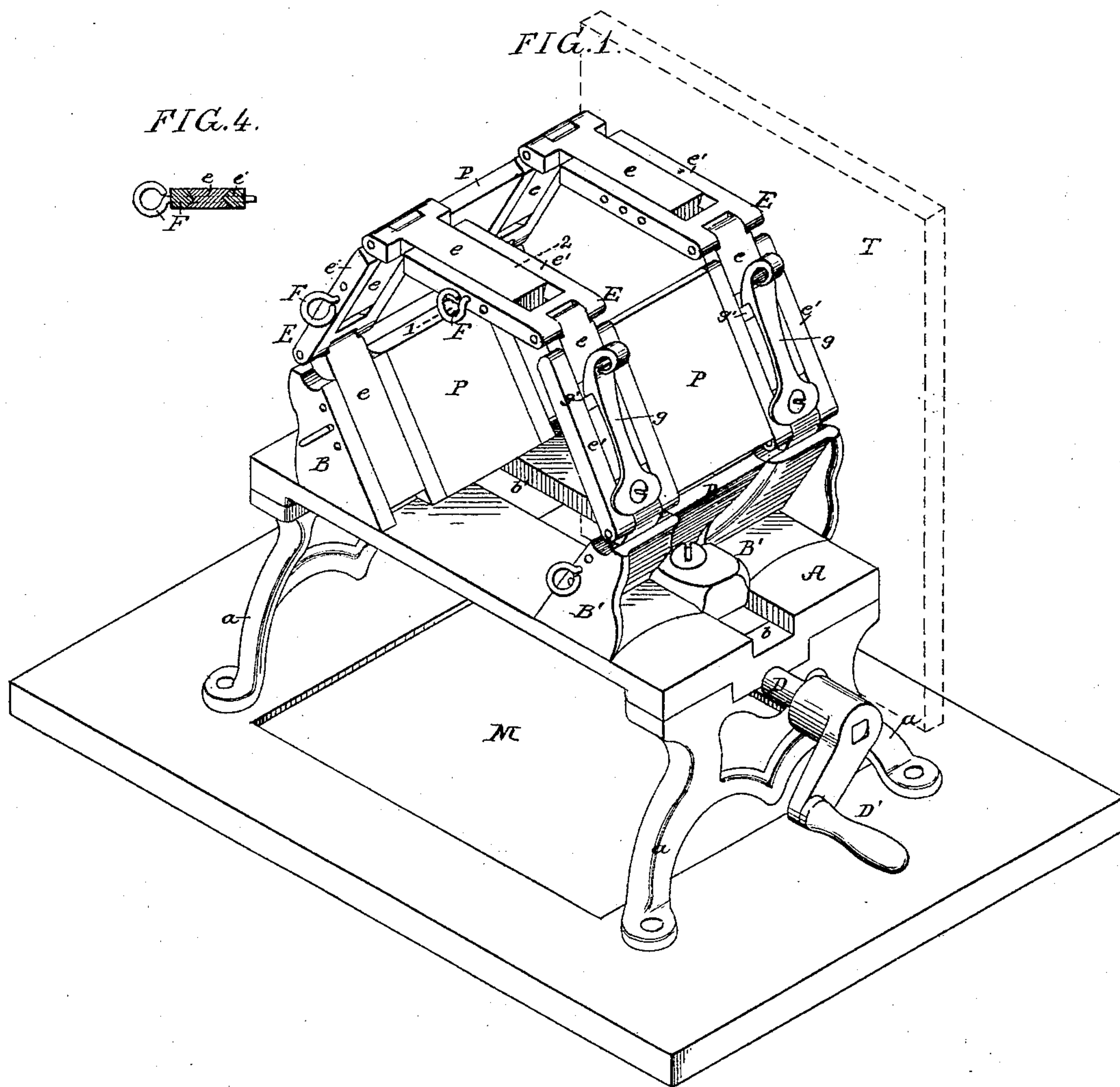
2 Sheets—Sheet 1.

F. T. KARSCH.

CIGAR BUNDLING MACHINE.

No. 348,745.

Patented Sept. 7, 1886.



Witnesses:
David S. Williams &
William D. Cowen

Inventor:
Feodor T. Karsch
by his Attorneys
Howson & Long

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FIG. 2.

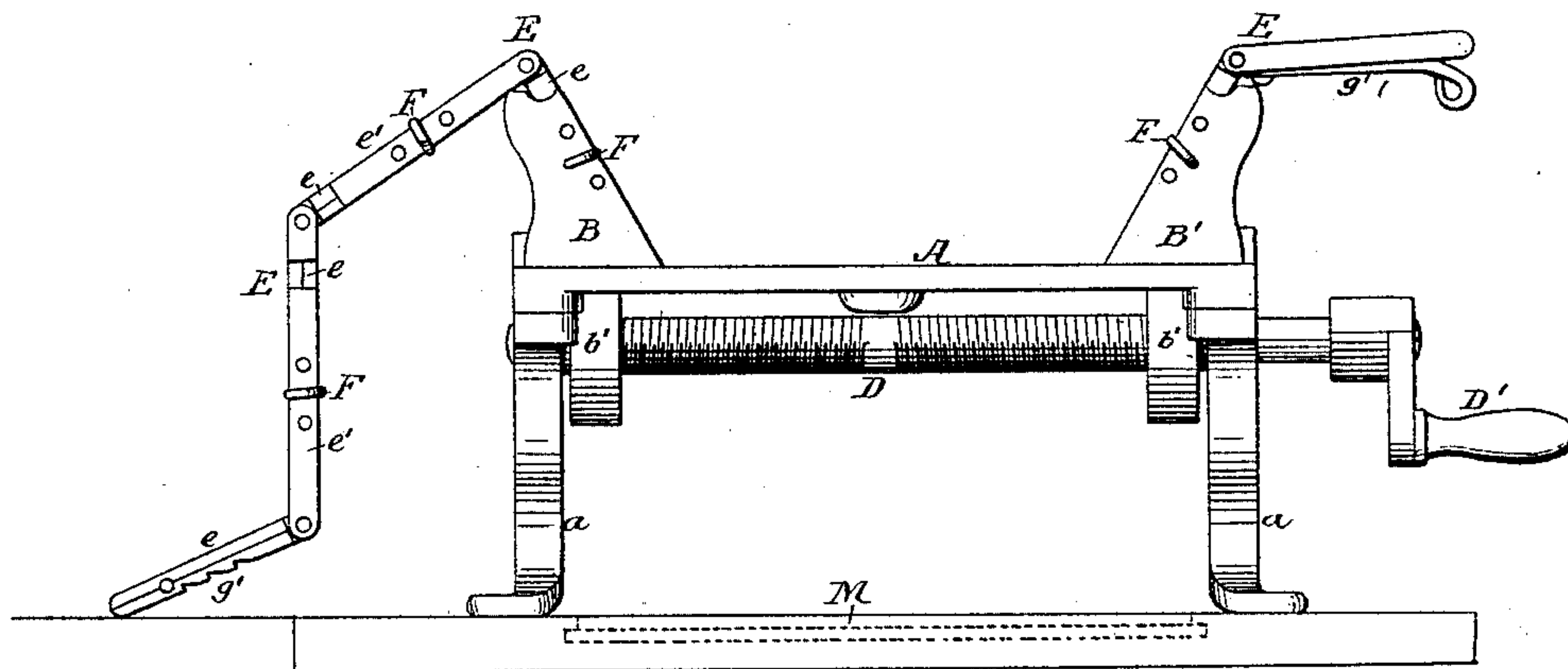
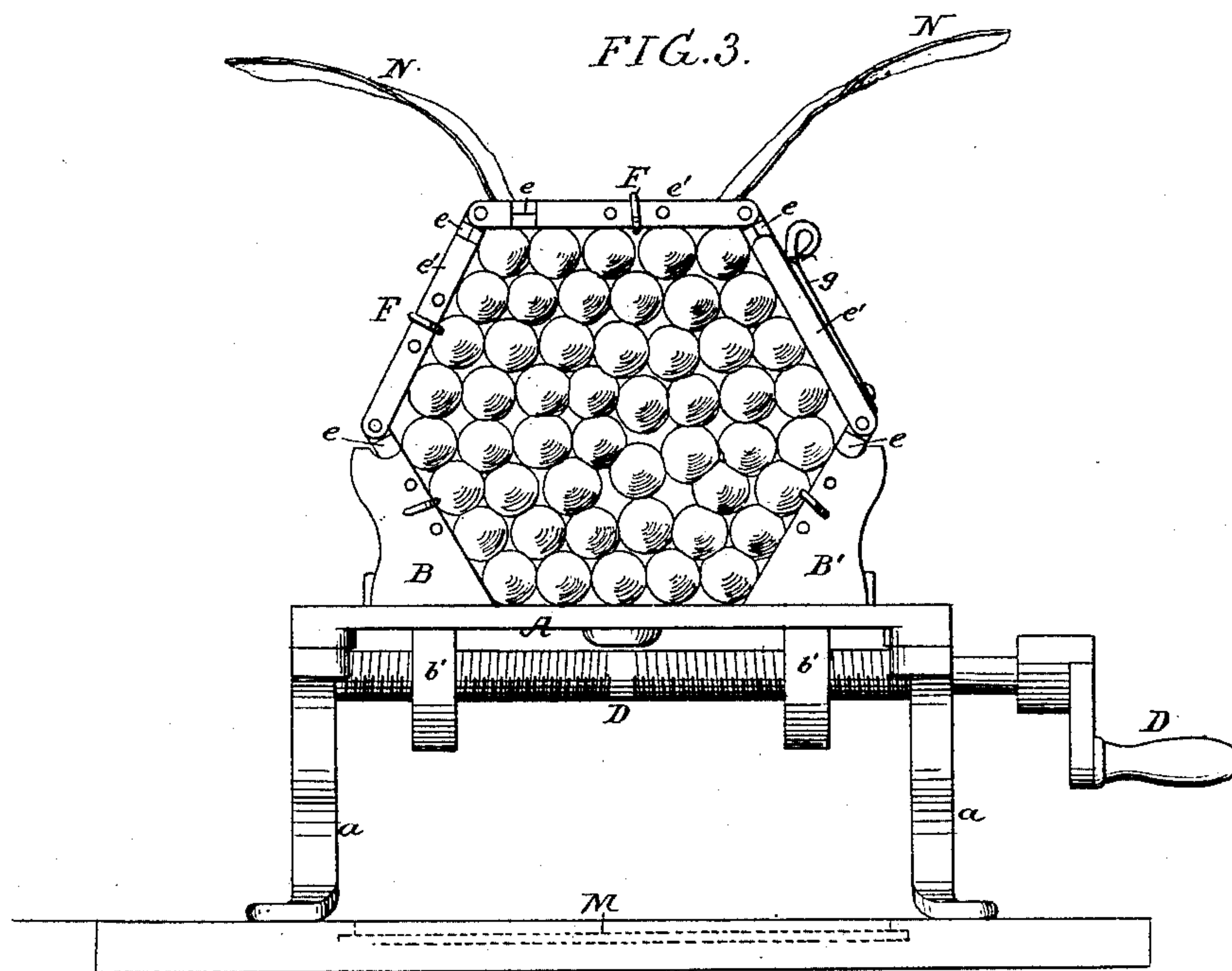


FIG. 3.



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UNITED STATES PATENT OFFICE.

FEODOR THEO. KARSCH, OF PHILADELPHIA, PENNSYLVANIA.

CIGAR-BUNDLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 348,745, dated September 7, 1886.

Application filed May 27, 1886. Serial No. 203,394. (No model.)

To all whom it may concern:

Be it known that I, FEODOR THEO. KARSCH, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Cigar-Bundling Machines, of which the following is a specification.

The main object of my invention is to construct a cigar-bundling machine which can be manipulated with facility, and which can be
15 used for various sizes of bundles without requiring any additional parts, and this object I attain in the manner which I will now proceed to describe.

In the accompanying drawings, Figure 1 is a perspective view of my improved cigar-bundling machine. Fig. 2 is a side view showing the parts open ready for the reception of cigars. Fig. 3 is a side view showing the parts closed over the bundle of cigars about to be tied by the usual tape or band; and Fig. 4
20 is a section on the line 1 2, Fig. 1.

A is the bed-plate of the machine, which may be mounted on legs *a* on a suitable base, and this bed-plate A has a longitudinal groove, *b*,
25 for the reception and guidance of the two moving blocks B B'. These moving blocks B B' have tongues adapted to the said groove, and have projecting below the bed-plate threaded lugs *b'* *b'*, through which passes a feed-screw,
30 D, journaled in the frame, and having right and left hand threads, as illustrated in Figs. 2 and 3, so that by turning this feed-screw by means of a wheel or handle, D', the two blocks B and B' may be advanced toward or separated
35 from each other. To these blocks are adjustably connected the hinged folding sections E, which I will now describe. Each block B B' is inclined on its inner face, and is provided at opposite sides with grooves for the reception of the legs *e* of the folding sections E.
40 Each folding section E consists of a leg, *e*, having V-shaped or other suitably-formed edges, to be adapted to corresponding grooves in one of the blocks B B', or in the bifurcated leg *e'* of the adjoining section. This leg *e'* is provided
45 with V-shaped grooves or ways for the reception of the corresponding leg *e* of the next section, E. The two legs of each section are suitably hinged to each other, and suitable transverse openings are formed in the blocks or the
50 bifurcated legs *e'* of the sections for the recep-

tion of retaining-pins F, which can be passed through them and through a corresponding opening in each leg *e*. By this means the legs can be adjusted in their grooves to adapt the
55 parts for different-sized bundles of cigars, or by the addition or removal of folding sections E the capacity of the machine may be increased or diminished.

Instead of using this transverse pin-connection at the point where the folding sections are to be separated or opened for the introduction and withdrawal of the bundles, I may use the spring-catches *g*, illustrated in Fig. 1 as secured to the section which is connected to the
60 block B'. The spring-hooks are adapted to engage with corresponding notches *g'* on the legs *e* of the next section, so that by pulling the spring-hooks back the sections can be readily separated, as illustrated in Fig. 2, and the
65 blocks B B' drawn apart for the introduction of the cigars to be bundled. When the desired number of cigars have been put into place, the parts can be united again by simply sliding the leg *e* of one section into the corresponding
70 legs *e'* of the sections which carry the spring-hooks. Then by turning the feed-screw in the proper direction the blocks, with their hinged sections, can be caused to approach each other to tighten the bundle as far as desired, when
75 the ends of the tape or band N, which has been laid in place in the press before the cigars were introduced, can be readily tied. The hinged sections may be then opened again for the removal of the tied bundle.
80

At one side of the machine I prefer to arrange a stop-board, (adjustable for different lengths of cigars,) as indicated by dotted lines at T, Fig. 1, to keep all the cigars in position. I prefer to combine with all of the folding sections, except those at the top, where the tape has to come out, plates P, filling the space left
85 between the corresponding sections on opposite sides and between the opposite sides of the blocks, so that there will be no sharp edges to
90 indent the cigars on the outside of the bundle when the latter is pressed into shape. I prefer also to arrange on the base on which the machine is mounted a mirror, M, immediately below the machine, so that the operator can see
100 that the ribbon is in the proper position.

I claim as my invention—

1. The combination of the bed-plate, sliding blocks, and feed-screw with adjustable hinged sections E.

2. The combination of a bed-plate and sliding blocks B B' with adjustable hinged sections, each consisting of legs *e* and bifurcated legs *e'*, adjustably adapted to each other, substantially as described.

3. The combination of the bed-plate and sliding blocks B B' with hinged sections, each consisting of a leg, *e*, a bifurcated leg, *e'*, and a retaining-pin, and holes in the legs, whereby they may be secured to each other.

4. The combination of the bed-plate and sliding blocks B B' with adjustable hinged sections and a spring-hook and catch-connection between the end sections, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FEODOR THEO. KARSCH.

Witnesses:

WILLIAM D. CONNER,
HARRY SMITH.