

(No Model.)

C. C. FREEMAN.

MACHINE FOR POLISHING AND COMPRESSING TOOTH PICKS.

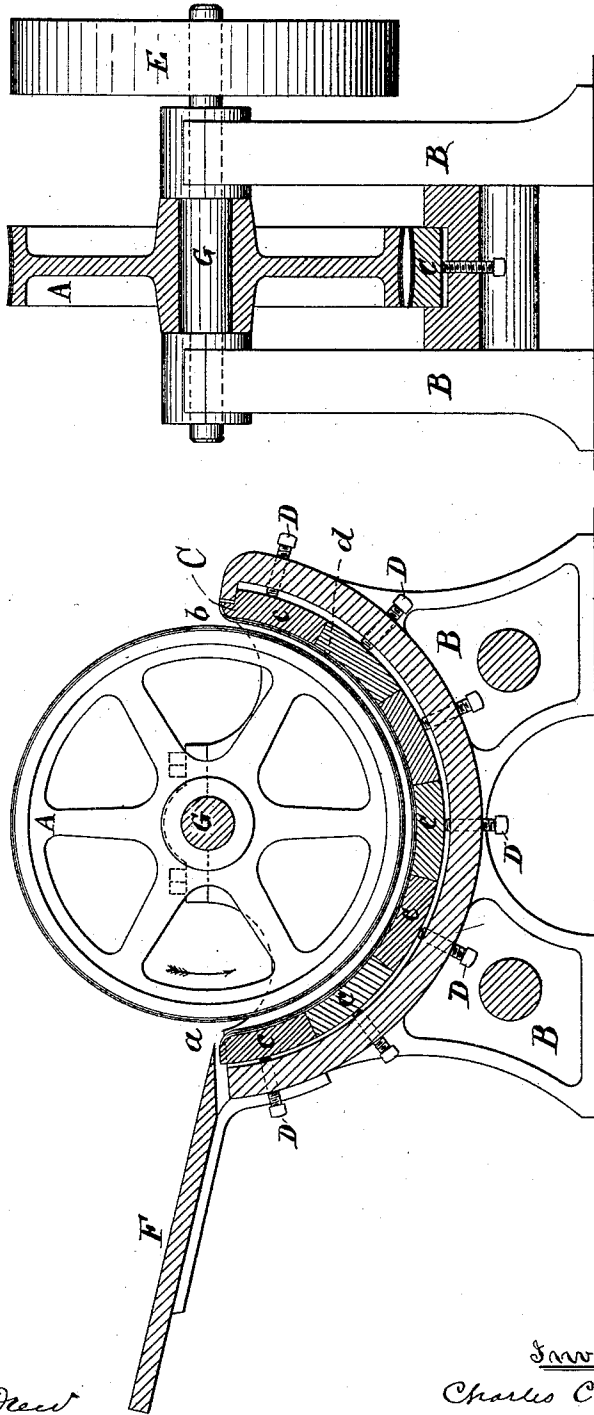
No. 358,029.

Patented Feb. 22, 1887.

FIG. 3.

FIG. 2.

FIG. 1.



Witnesses  
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# UNITED STATES PATENT OFFICE.

CHARLES C. FREEMAN, OF DIXFIELD, ASSIGNOR TO CHARLOTTE M. FORSTER, OF BUCKFIELD, MAINE.

## MACHINE FOR POLISHING AND COMPRESSING TOOTH-PICKS.

SPECIFICATION forming part of Letters Patent No. 358,029, dated February 22, 1887.

Application filed September 30, 1881. Serial No. 42,900. (No model.)

### *To all whom it may concern:*

Be it known that I, CHARLES C. FREEMAN, a citizen of the United States, residing at Dixfield, in the county of Oxford and State of Maine, have invented a new and useful Machine for Polishing, Compressing, Rounding, and Pointing Tooth-Picks, of which the following is a specification.

My invention has for its object the production of a pointed, rounded, polished, and compressed wooden tooth-pick, and of mechanism for accomplishing that result.

It has been common to manufacture wooden tooth-picks by machinery; but the tooth-picks thus manufactured are somewhat rough, and have not sufficiently fine points. Tooth-picks made by hand are generally smoothed and provided with fine points; but both in the case of machine-made and hand-made tooth-picks they are, being made of wood, of a certain degree of softness and not sufficiently hard and firm to readily serve the purpose of a good tooth-pick.

My invention contemplates the making in a machine a tooth-pick which shall be so compressed as to be hard and firm, and shall be polished and finely pointed.

The mechanism by which I accomplish this object consists of devices for so manipulating the ordinary wooden tooth-pick as made on the machines now in use as will convert it into a polished, rounded, compressed, and pointed tooth-pick.

In the drawings I have shown, in Figure 1, a longitudinal section of my machine; in Fig. 2, a transverse section of the same, and in Fig. 3 one of the tooth-picks polished, compressed, and pointed thereon.

A is a revolving wheel or cylinder, with its periphery slightly concave and covered with a band of leather, india-rubber, or other suitable elastic substance, *a*.

B is the frame of the machine.

C is a stationary apron, forming the segment of a circle, and composed of short segments of a circle, *c c c*. These segments are united so as to form the apron C by means of the

band *d*, made of any suitable elastic material, to which the segments *c c c* are attached. These segments are severally adjustable by means of the set-screws D D D, one of which is placed opposite the center of each of the segments *c c c*.

E is the pulley for driving the cylinder A.

F is a table for holding the tooth-picks to be fed to the machine.

G is the shaft of the cylinder A.

The apron C is made concave upon its inner face, so as to leave between it and the periphery of the cylinder A a space of the form of the tooth-pick when finished, as shown in Fig. 2. The elastic surfaces upon the apron C and the cylinder A are to be covered with fine-ground quartz, glass, or any other substance suitable for polishing wood.

The operation of my machine is as follows: The tooth-picks are fed from the table F between the cylinder A and the apron C at *a*. These tooth-picks are square in section. By the revolution of the cylinder A they are rolled forward and discharged at *b*. The distance between the cylinder and the apron is gradually lessened from *a* to *b* by means of the set-screws D.

By means of the operation described the tooth-pick is made round, smooth, and polished and compressed, and provided with fine points.

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

1. The machine for polishing, rounding, compressing, and pointing tooth-picks, consisting of the cylinder A, the apron C, made of the segments *c c c*, adjustable by the set-screws D D D, the pulley E, the shaft G, the frame B, and the table F.

2. In a machine for rounding, compressing, polishing, and pointing tooth-picks, the cylinder A, table F, and the apron C, in combination.

3. In a machine for rounding, compressing, polishing, and pointing tooth-picks, the cylinder A, having a concave periphery and furnished with the elastic band *a*, in combina-

tion with the table F and a suitable opposing surface for compressing the tooth-picks fed into the machine.

4. In a machine for rounding, compressing, 5 polishing, and pointing tooth-picks, the apron C, formed of the segments *c c c*, and made concave upon its inner surface and furnished with the elastic band *d*, in combination with a

suitable table, from which the tooth-picks are fed, and a suitable revolving and opposed surface, by means of which the tooth-picks are compressed. 10

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