

(No Model.)

C. C. FREEMAN.

MACHINE FOR POLISHING AND COMPRESSING TOOTH PICKS.

No. 358,029.

Patented Feb. 22, 1887.

FIG. 2.

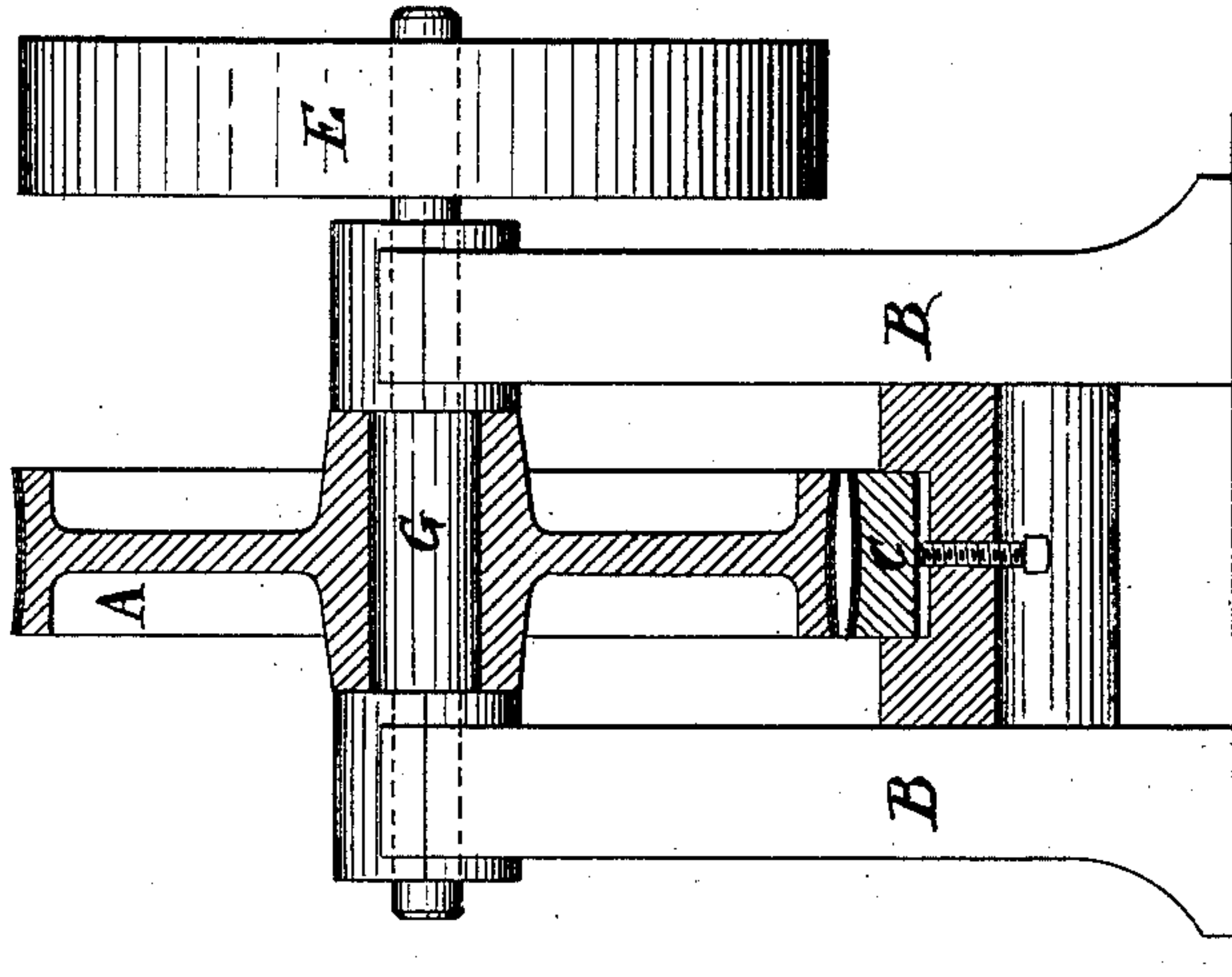
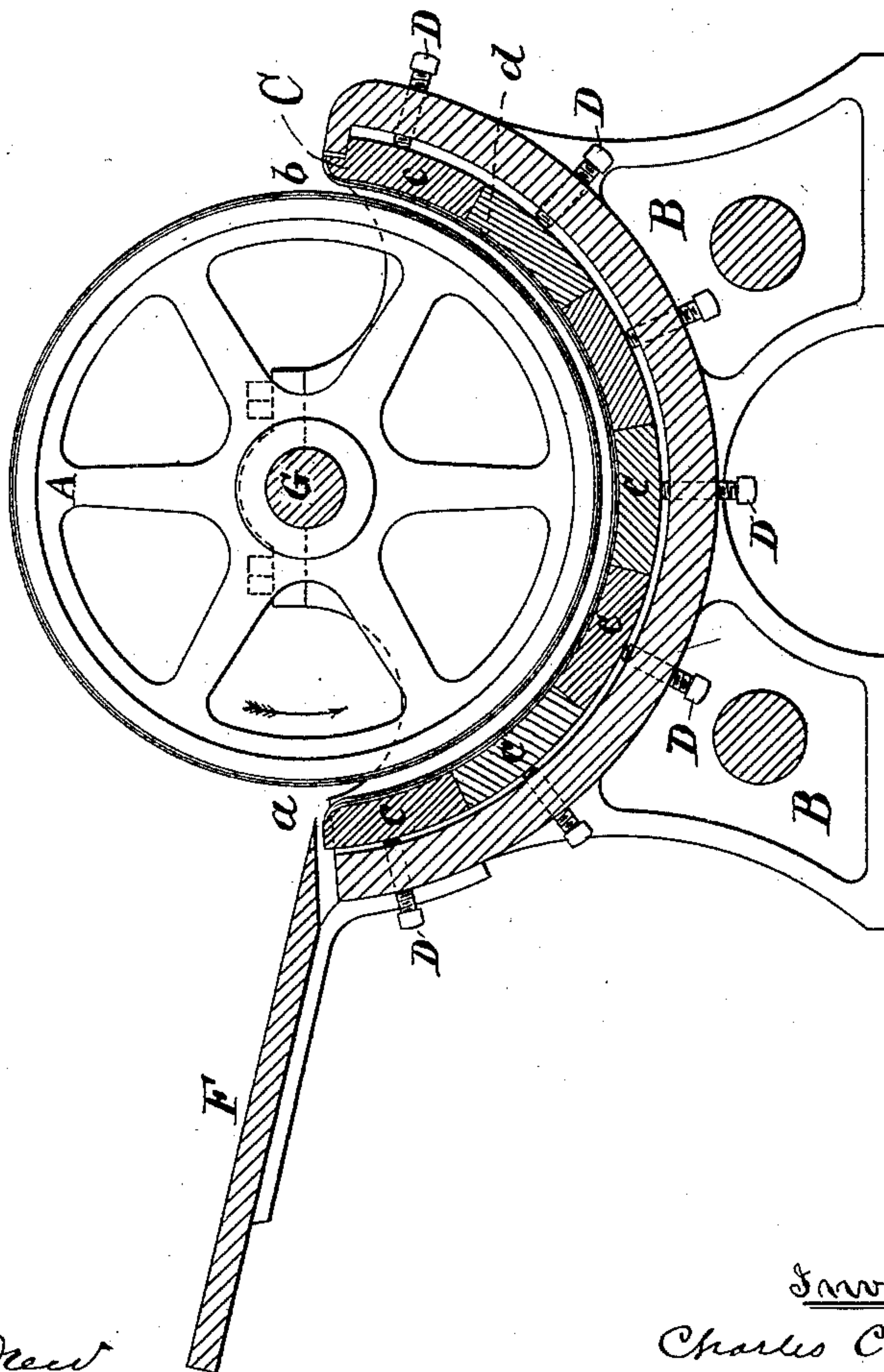


FIG. 3.

FIG. 1.



Witnesses  
Stephen C. Drew  
Chas. S. Perkins

Inventor  
Charles C. Freeman  
by Chas. H. Drew  
his atty.



# 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. 42,909. (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.

CHARLES C. FREEMAN.

Witnesses:

H. J. DE SHON,

D. PORTER STOWELL.