R. RATHBONE.

Polishing-Machines.

No. 148,984. Patented March 24, 1874.

Fig. 1.

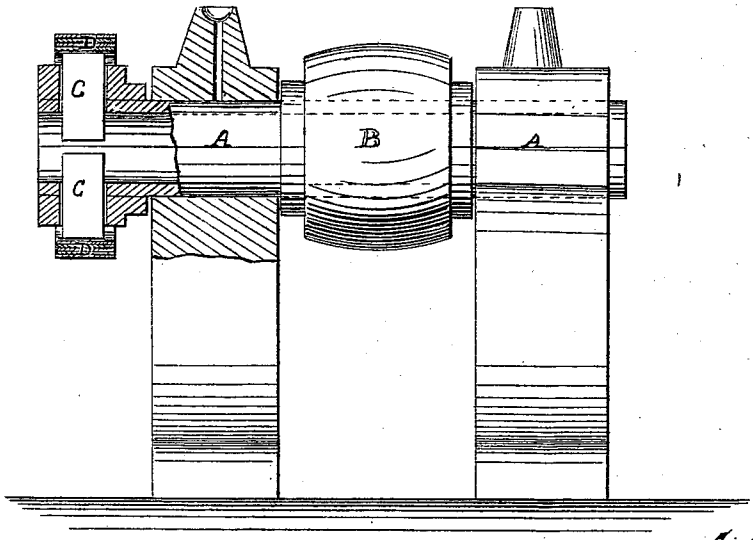


Fig. 3.

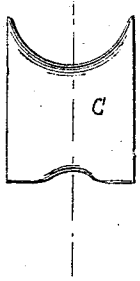


Fig. 4.

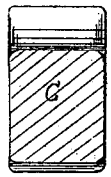
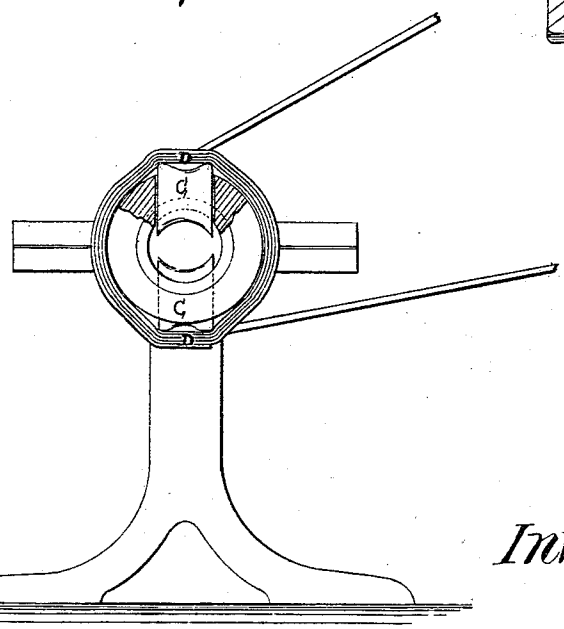


Fig. 2.



Witnesses.

Victor. G. Bloede

Saml. L. Smith

Inventor.

Ransom Rathbone

UNITED STATES PATENT OFFICE.

RANSOM RATHBONE, OF NEW YORK, N. Y.

IMPROVEMENT IN POLISHING-MACHINES.

Specification forming part of Letters Patent No. **148,984**, dated March 24, 1874; application filed September 1, 1873.

To all whom it may concern:

Be it known that I, RANSOM RATHBONE, of the city and county of New York, have invented a Machine for Smoothing and Burnishing Round and Oval Surfaces, of which the following is a specification:

The object of my invention is to rapidly and efficiently smooth or polish round or oval surfaces, whether of wood, metal, or other material, such as whip-handles, canes, metal tubes, umbrella-sticks, and other similar articles. My invention consists in the use of a polisher made in two or more sections, and of any convenient material, and operated by a powerful spring, in such a manner that the article upon which the polishing is to be done is firmly held and compressed by the sections.

The machine is illustrated more in detail in the side view, Figure 1, and in the sectional view, Fig. 2, in which the position of the sectional polisher is shown. Fig. 3 is a front view of one section of the polisher; Fig. 4, a side view of the same.

My machine consists of a hollow mandrel, A A, operated by the pulley B. Upon one end, or in any other convenient position upon the mandrel, is placed one or more slotted hubs, into which is placed the sectional polishers C C, operated and compressed by the springs D D. The spring, as shown in the drawing, consists of a rubber band; but it may be made of steel or other convenient material.

The mandrel being set in motion causes the sectional polishers C C to revolve rapidly, and the object upon which the polishing is to be performed being pushed or forced through between the sections, the work is rapidly and efficiently accomplished.

The force of the springs D D, and the consequent compression of the space between the sectional polishers C C, is regulated according to the nature of the material operated upon.

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

The revolving hollow mandrel A, provided with the sectional polishers C C, regulated by the springs D D, and operated substantially in the manner and for the purpose set forth.

RANSOM RATHBONE.

Witnesses:

VICTOR G. BLOEDE,

SAML. G. SMITH.