(No Model.)

F. C. HINMAN.

CHUCK FOR LATHES.

No. 392,608. Patented Nov. 13, 1888.

Fig. 1.

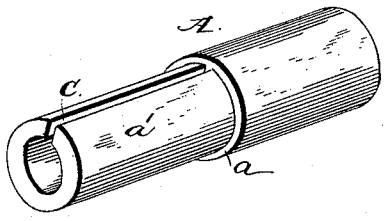
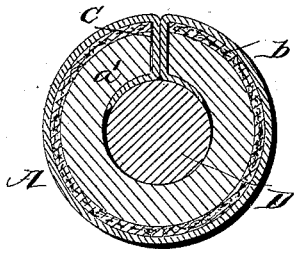


Fig. 2.



Witnesses.
Geo. Thorpe.
J. W. Garner.

Inventor,
Fred. C. Hinman.
By his Attorneys
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

FREDERICK C. HINMAN, OF FRIEND, NEBRASKA.

CHUCK FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 392,608, dated November 13, 1888.

Application filed January 10, 1888. Serial No. 260,279. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK C. HINMAN, a citizen of the United States, residing at Friend, in the county of Saline and State of Nebraska, have invented a new and useful Improvement in Chucks for Lathes, of which the following is a specification.

My invention relates to improvements in chucks for turning and polishing lathes; and it consists in certain novel features hereinafter described, and specifically claimed.

In the accompanying drawings, Figure 1 is a perspective view of my improved chuck, the paper or cloth and pin being detached therefrom; and Fig. 2 is a transverse sectional view of the same.

Referring to the drawings by letter, A designates my improved chuck, made of any suitable material and cylindrical in shape. The outer portion of the chuck is considerably reduced in diameter, so as to form a shoulder, *a*, and a projecting sleeve, *a'*, a longitudinal slot, C, being formed through the sleeve *a'*, as shown, and communicates with a central longitudinal opening that extends entirely through the chuck. One end of this central longitudinal opening forms a socket to receive the spindle of the lathe, (not shown,) so as to secure the chuck thereto, while its other end is adapted to receive a peg or pin, D. (Shown in Fig. 2.) A cylindrical piece of felt or other suitable yielding material, *b*, is secured on the projecting sleeve *a'*, and the slot C is extended through this material, as will be readily understood. This felt forms a yielding surface under the finishing cloth or paper and adapts the device to be used for imparting an even and high polish to articles of various kinds.

In practice a strip of sand-paper, emery-cloth, or other suitable finishing or polishing material of suitable length and width is bent around the outer portion of the chuck and the ends of the said paper or cloth are inserted through the slot C, as shown. The peg or pin D is then inserted in the outer end of the central longitudinal opening in the chuck, so as to clamp the ends of the paper or cloth firmly in the chuck and thereby prevent the same from slipping off, as will be readily understood.

The inner edge of both the felt and the finishing cloth or paper rest against the shoulder *a* and are kept in place thereby.

My invention is particularly designed for use in finishing and polishing dental plates, but it will be found useful for many other articles as well.

Having thus described my invention, I claim—

The combination of the hollow chuck having larger and smaller cylindrical portions, forming between them the circumferential shoulder *a*, the smaller portion having the longitudinal radial slot C, extending from its outer end to said shoulder, the yielding covering of felt or equivalent material surrounding the smaller portion, *a'*, of the chuck up to the shoulder *a*, and with the slot C extending through it, the polishing paper or cloth surrounding said yielding covering up to said shoulder with its edges passed through the slot C, and the pin inserted in the bore of the chuck at one end to separate said edges and clamp them in said bore, the opposite end of said bore forming a socket for the lathe-spindle, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FREDERICK C. HINMAN.

Witnesses:

S. TINLEY, Jr.,

R. E. DENT, Jr.