M. C. SEREN

NIPPLE CHUCK.

APPLICATION FILED JULY 11, 1907.

912,420. Patented Feb. 16, 1909.

Fig. 1.

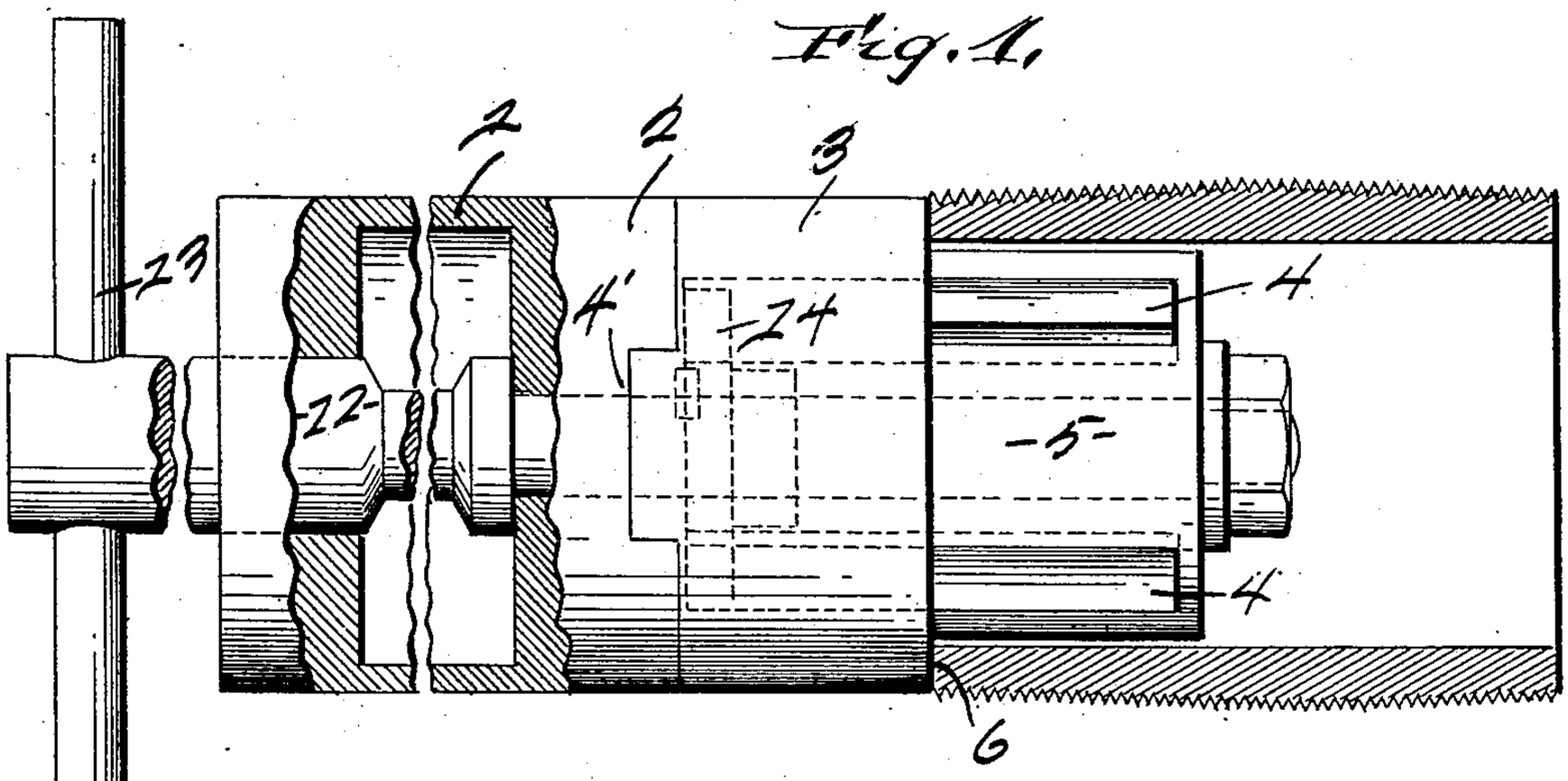


Fig. 3.

Fig. 2.

Fig. 4.

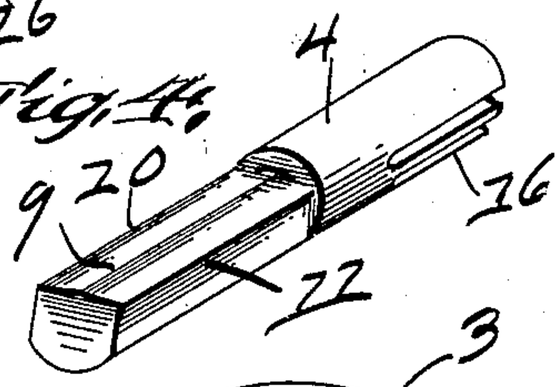
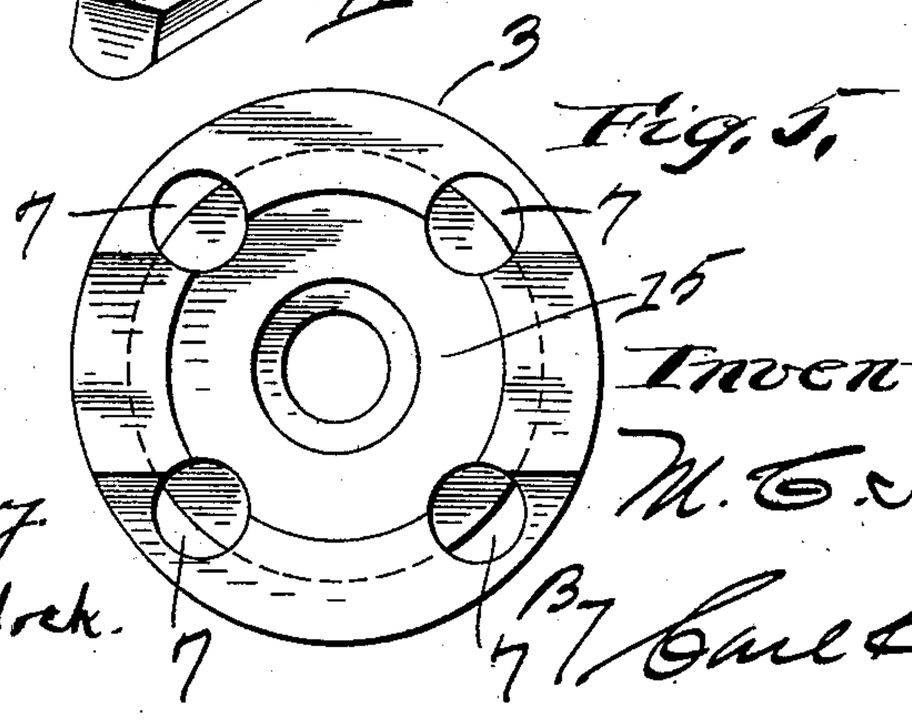


Fig. 5.



Witnesses,
M. A. Tracy.
H. W. Murdock.

Inventor,
M. C. Seren
By Chas. H. Keller
Atty.

UNITED STATES PATENT OFFICE.

MICHAEL C. SEREN, OF TOLEDO, OHIO.

NIPPLE-CHUCK.

No. 912,420. Specification of Letters Patent. Patented Feb. 16, 1909.

Application filed July 11, 1907. Serial No. 383,167.

To all whom it may concern:

Be it known that I, MICHAEL C. SEREN, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Nipple-Chucks; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

This invention has reference to chucks for holding nipples while the thread is being cut thereon, and it embodies the novel combination, arrangement and the details of construction hereinafter shown, described and claimed.

In the accompanying drawings, Figure 1 is an elevation partly in section of my improved nipple chuck, the stock and the operating rod being shown broken away and considerably shortened owing to limited space upon the sheet; Fig. 2 is an outer end view of the chuck; Fig. 3 is an end view of the nipple receiving end of the stock removed therefrom; Fig. 4 is a perspective view of one of the gripping members detached; Fig. 5 is an inner end view of the nipple receiving portion shown in Fig. 3, the gripping members and operating parts being removed.

Referring to the details, 1 is a hollow cylindrical stock adapted to be firmly held either in a machine head, or in a vise where the chuck is employed in shops for threading nipples by manually operated threading devices. At its outer end 2 the stock is provided with a nipple receiving end 3 in which the rotatable gripping members 4 are supported. The end 3 is firmly secured upon the stock against rotation by interengaging projections and recesses, as at 4′. At a short distance from its connection with the stock proper the end 3 is reduced to provide a cylindrical portion 5 and a shoulder 6, the portion 5 being smaller than the inside diameter of the nipple to be threaded to permit the ready placing of the nipple thereon, while the shoulder 6 contacts with the end of the nipple and limits its insertion upon the reduced portion. Extending into the inner face of the nipple receiving end and intersecting the cylindrical face of the reduced portion are a plurality of cylindrical recesses 7 adapted to receive cylindrical pins or gripping members 4, hereinbefore referred to, the gripping members being freely rotatable in the recesses 7. Each gripping member has a ground outer face 9 which when the member is in intermediate position forms a continuation of the cylindrical face of the reduced portion adapted to receive the nipple, so that the nipple may be readily placed upon the reduced portion without meeting an obstacle. The side faces of the gripping members are also ground to provide gripping edges at 10 and 11 on opposite sides or margins of the outer face 9. By rotating the members in either direction a nipple is thus gripped firmly to cut either a right or a left hand thread thereon.

The means for tilting the gripping members simultaneously in either direction comprise a rotatable operating rod or shaft 12 extending axially through the stock and also the nipple receiving end, and held from endwise movement therein, the rod being provided with a handle 13 at its rear portion which projects beyond the end of the stock, and upon the rod is keyed a gear 14 disposed in a recess 15 in the nipple receiving end, the gear 14 meshing with the gear faces 16 provided at the inner end of each gripping member. It is thus seen that by turning the handle 13 the gripping members will be rotated simultaneously to cause the gripping edges thereon to project beyond the cylindrical face of the nipple receiving end, the nipple upon the reduced portion being thus firmly gripped, the firmness of the grip being increased as the turning force upon the nipple is increased. By turning the handle 13 in one direction, the gripping members will be tilted to project the gripping edges 10, and when the handle is rotated in the opposite direction the gripping edges 11 will be projected and the edges 10 retracted, the respective position of these edges when projected being shown in full and dotted lines respectively in Fig. 2.

Having described my invention, what I claim and desire to secure by Letters Patent, is:—

1. In a nipple chuck, a stock having a cylindrical nipple receiving end and provided with a limiting shoulder thereon, said end having a plurality of recesses bored through the shoulder and intersecting the cylindrical sides thereof, gripping members rotatable in said recesses, and means dis-

posed axially of the stock to rotate the gripping members simultaneously, substantially as described.

2. In a nipple chuck, a stock having a cylindrical end to receive a nipple thereon, rotatable gripping members exposed through the sides of said end, said gripping members provided with gripping edges to engage a nipple in position upon the stock end, the gripping edges being retracted when the gripping members are in intermediate position and being projected when the members are rotated in either direction, and means for rotating the gripping members in either direction simultaneously, substantially as described.

In testimony, that I claim the foregoing as my own I affix my signature, in presence of two witnesses.

MICHAEL C. SEREN.

Witnesses:
CARL H. KELLER,
GEO. R. LA FLEUR.