S. G. Dare.

Lathe Chuck.

No. 85,073. Patented Dec. 22, 1868.

Fig: 1.

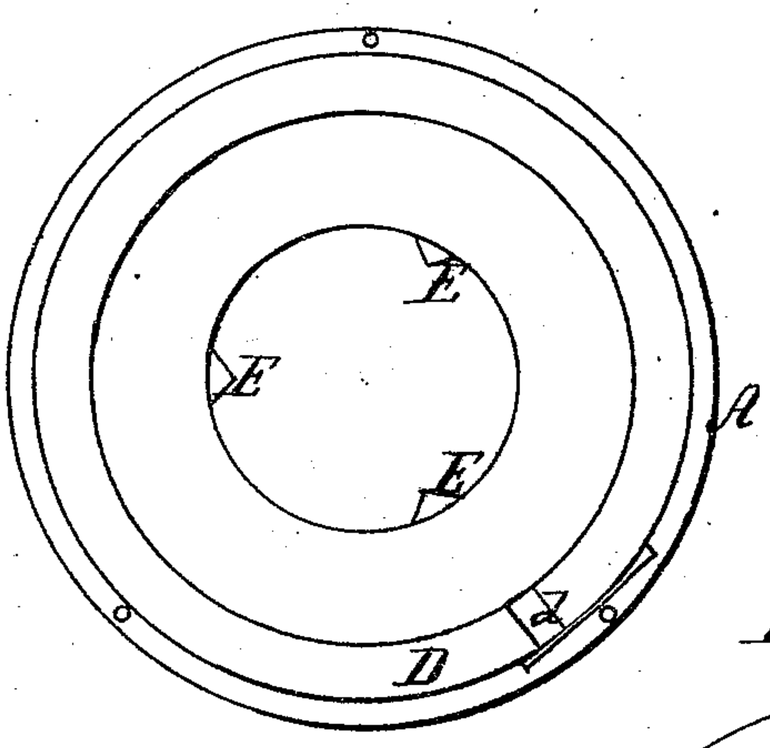


Fig: 2.

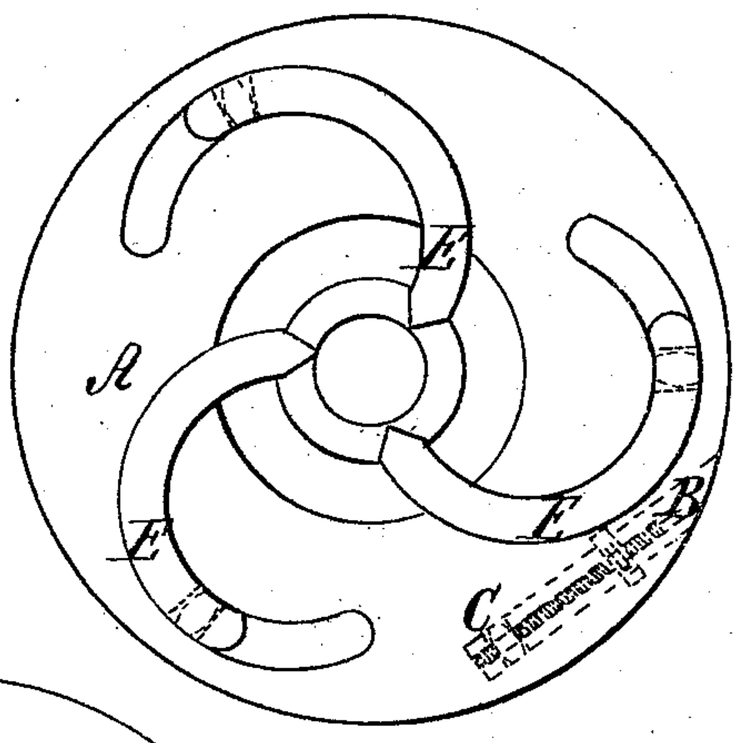
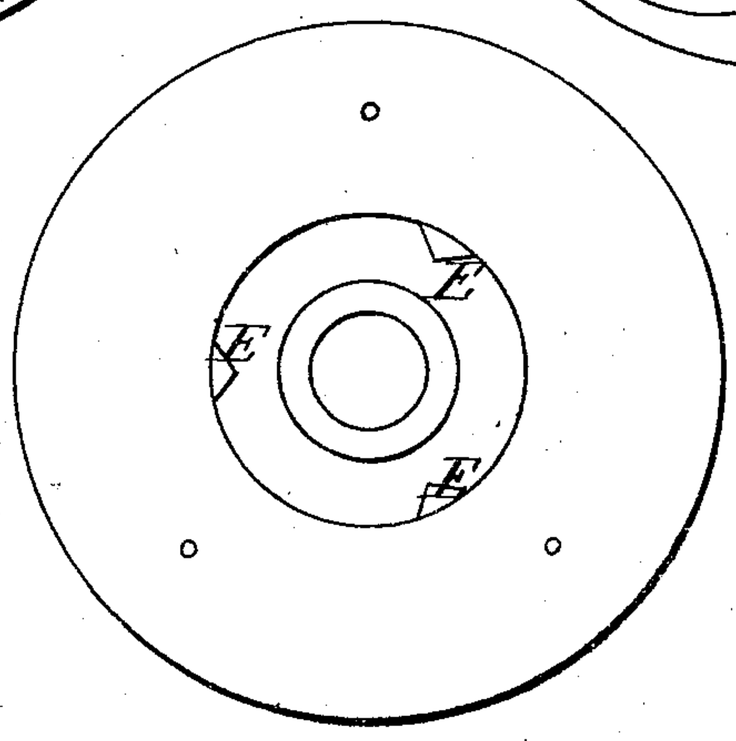


Fig: 3.



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United States Patent Office.

SAMUEL G. DARE, OF NEW YORK, N. Y.

Letters Patent No. 85,073, *dated December* 22, 1868.

IMPROVED CHUCK.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SAMUEL G. DARE, of the city, county, and State of New York, have invented, made, and applied to use a useful Improvement in Chucks for lathes and other purposes; and I do declare the following to be a full, clear, and correct description of my invention, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a rear view of my improved chuck.

Figure 2 is a sectional view of the same.

Figure 3 is a front view of the same.

In the drawings, like parts of the invention are designated by the same letters of reference.

The nature of my invention consists in the construction and operation, as more fully hereinafter set forth, of a new and useful chuck for lathes and other purposes.

The object of the invention is the production, at a low cost, of a chuck, simple in its construction and operation.

To enable those skilled in the arts to make and use my invention, I will describe its construction and operation.

A shows the case of my improved chuck, which, in order that access may be had to the parts within the same, may be made of two sections, united together by means of screws or in any convenient way.

Within the back section of the case is inserted a screw, B, having upon it a nut, C, provided with a latch, and within the front section of the case, slotted to receive it, is a ring, D, slotted, as at *d*, to allow the latch upon the nut C to enter into the same.

This ring D is also slotted upon its face, to receive the latches upon the jaws E, and the front section of the case has cut upon its face the radial slots, in which the jaws E move freely to and fro as they are operated, as more fully hereinafter described.

A cap or plate is secured upon the face of the front section of the case, serving to retain the jaws E in position, and an opening is made in the side of the case A, for the introduction of a socket-wrench or some equivalent device, to operate the jaws E, as more fully hereinafter described.

Such being the construction, the operation is as follows:

The chuck may be secured upon the spindle of the lath, in any convenient manner, the jaws E being drawn within the case A, as shown in fig. 3 of the drawing.

When desired, to throw out these jaws, a socket-wrench, or some equivalent device, is inserted within the opening in the side of the case A, so as to fit snugly the head of the screw B, upon which is the nut C, locking into the ring D, supporting and governing the jaws E.

As the screw is turned by the wrench, the nut is advanced upon the same, and as it advances it causes the ring to revolve, by which movement the jaws E may be thrown out any desired distance from the position they occupied within the case A.

A reversé movement of the screw causes the nut to be drawn back, and the ring following the nut in its backward movement, the jaws may be drawn back to their former position.

The jaws move, as it were, from their own centres, and, although separate, move in harmony with each other, while they can, at any time, be instantly removed for repairing, or that their places may be supplied by new ones.

The construction of the chuck, as just described, allows the use of a much larger central opening than in the ordinary chuck, while, at the same time, the smallest article to be turned can be readily held within the same.

My invention is also applicable to the threading of gas-pipe and of bolts, in which case the faces of the jaws should be cut so as to effect the desired object.

Having thus fully described my invention,

I claim therein as new, and desire to secure by Letters Patent—

The combination, with the case A and operating-ring D of my improved chuck, of the semicircular or crescent-shaped jaws E E E, moving in counterpart recesses or slots formed (about independent centres) in said case A, upon circles intersecting at the centre of the chuck, all substantially as herein set forth.

Witnesses: SAMUEL G. DARE.

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