

JOB MANSIR.

Improvement in Watchmakers Chucks.

No. 120,988.

Patented Nov. 14, 1871.

Fig. 1.

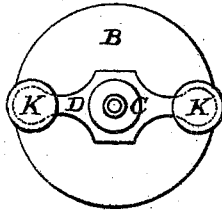
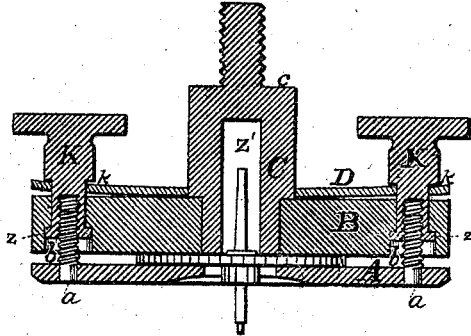


Fig. 2.



Witnesses.

S. Anderson
P. C. Kasi

Inventor.

Job Mansir,
Chipman Hosmer & Co.,
Attys.

UNITED STATES PATENT OFFICE.

JOB MANSIR, OF RICHMOND, MAINE.

IMPROVEMENT IN WATCHMAKERS' CHUCKS.

Specification forming part of Letters Patent No. 120,988, dated November 14, 1871.

To all whom it may concern:

Be it known that I, JOB MANSIR, of Richmond, in the county of Sagadahoc and State of Maine, have invented a new and valuable Improvement in Chucks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a back view of my invention. Fig. 2 is a central longitudinal section thereof.

This invention has relation to watchmakers' chucks; and it consists in the construction and novel arrangement of devices whereby the pinion may be centered between smooth plates, the spring being placed on the rear of the chuck-plate, as hereinafter described.

In the drawing, A represents the face-plate of the chuck provided with two screws *a a*. B represents the chuck-plate or bed-piece, having two countersunk holes *b b* arranged to receive the screws *a a*. C represents a center-block or stem, having a shoulder, *c*, which serves to keep the chuck at a proper distance from the lathe, to which it is designed to be secured by the stem C. An opening, *z'*, is made from the face of the plate B into the body of the stem C, in a central line, the object of which is to receive the stem of the pinion or work to be centered. The exterior of the stem C is preferably cylindrical, and it

serves as a guide for the elliptical or bar-spring D, which divides and passes on each side of said stem. K K represent thumb-nuts, which pass into the countersunk holes of the plate B, the same being provided with flanches, *z*, by which they are kept from flying out when the nuts are turned entirely off the screws *a*. Shoulders *k* are formed on the thumb-nuts, and serve to engage with the ends of the spring D through circular openings in which said thumb-nuts pass. Instead of the elliptical spring D, the thumb-nuts may be furnished with separate springs. It is apparent that when the thumb-nuts are turned down upon the screws *a a*, the disk of the pinion will be held between the smooth plates A B by an elastic or spring-pressure due to the spring D.

I am aware that it is not new to employ a spring-pressure in watchmakers' chucks; hence I do not claim such broadly; but—

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

The combination, with the perforated chuck-plate B, of the face-plate A, screws *a a*, thumb-nuts K K, and back-spring D, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

Witnesses:

JOB MANSIR.

A. B. GAUBERT,
A. C. SPAULDING.

(36)