

JOB MANSIR.

Improvement in Watchmakers Chucks.

No. 120,988.

Patented Nov. 14, 1871.

Fig. 1.

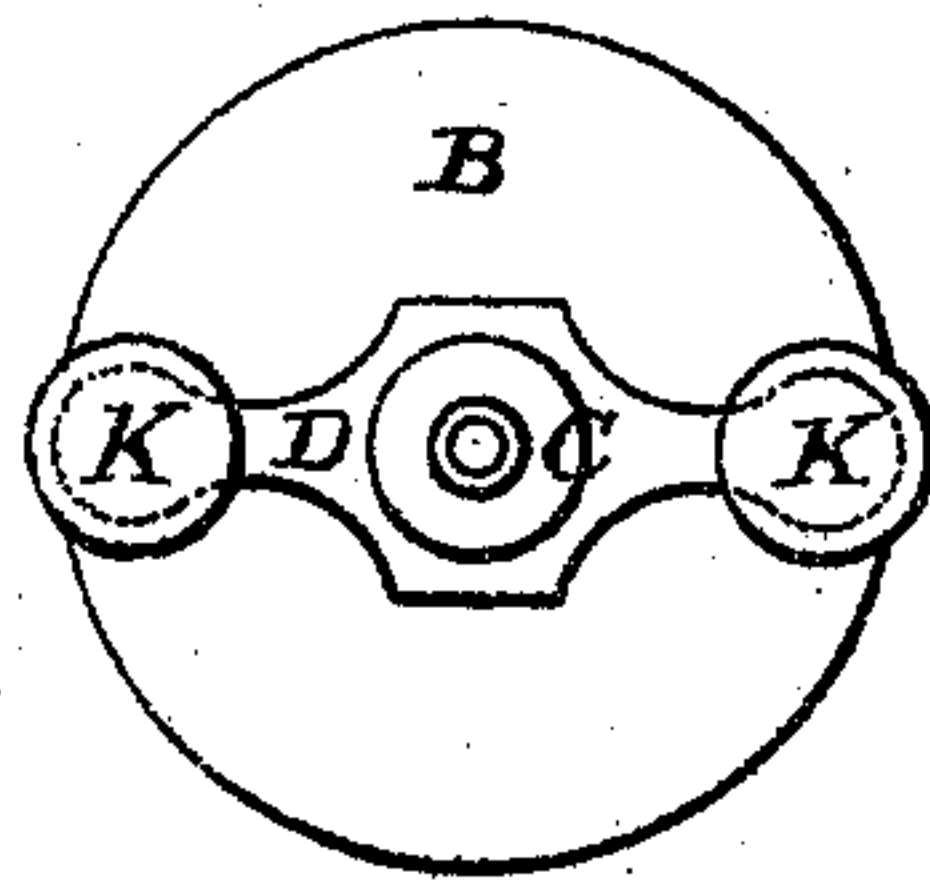
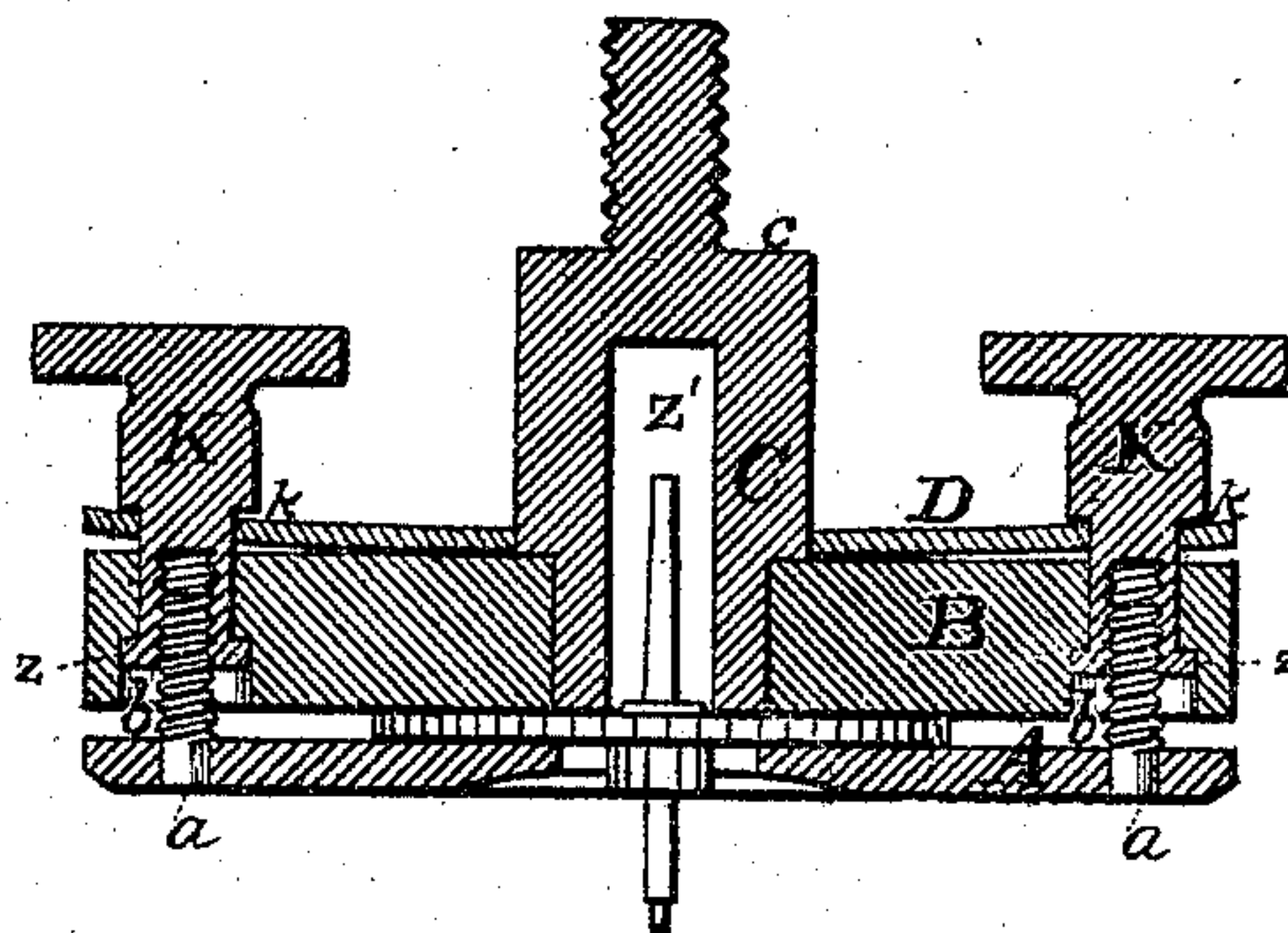


Fig. 2.



Witnesses.

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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.

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(36)