

N. P. STRATTON.

Watch.

No. 26,715.

Patented Jan'y 3, 1860.

Fig: 1.

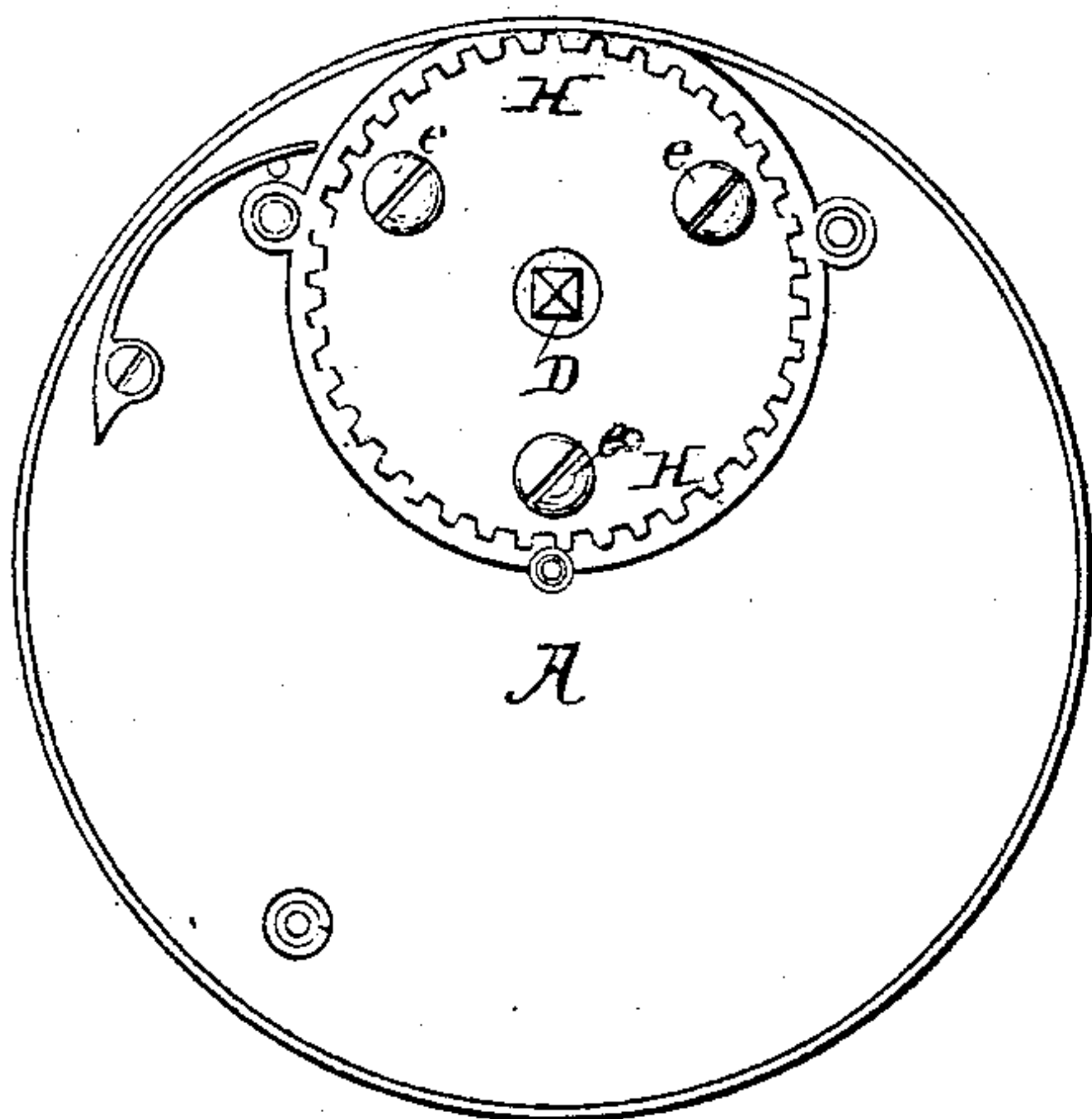


Fig: 5.

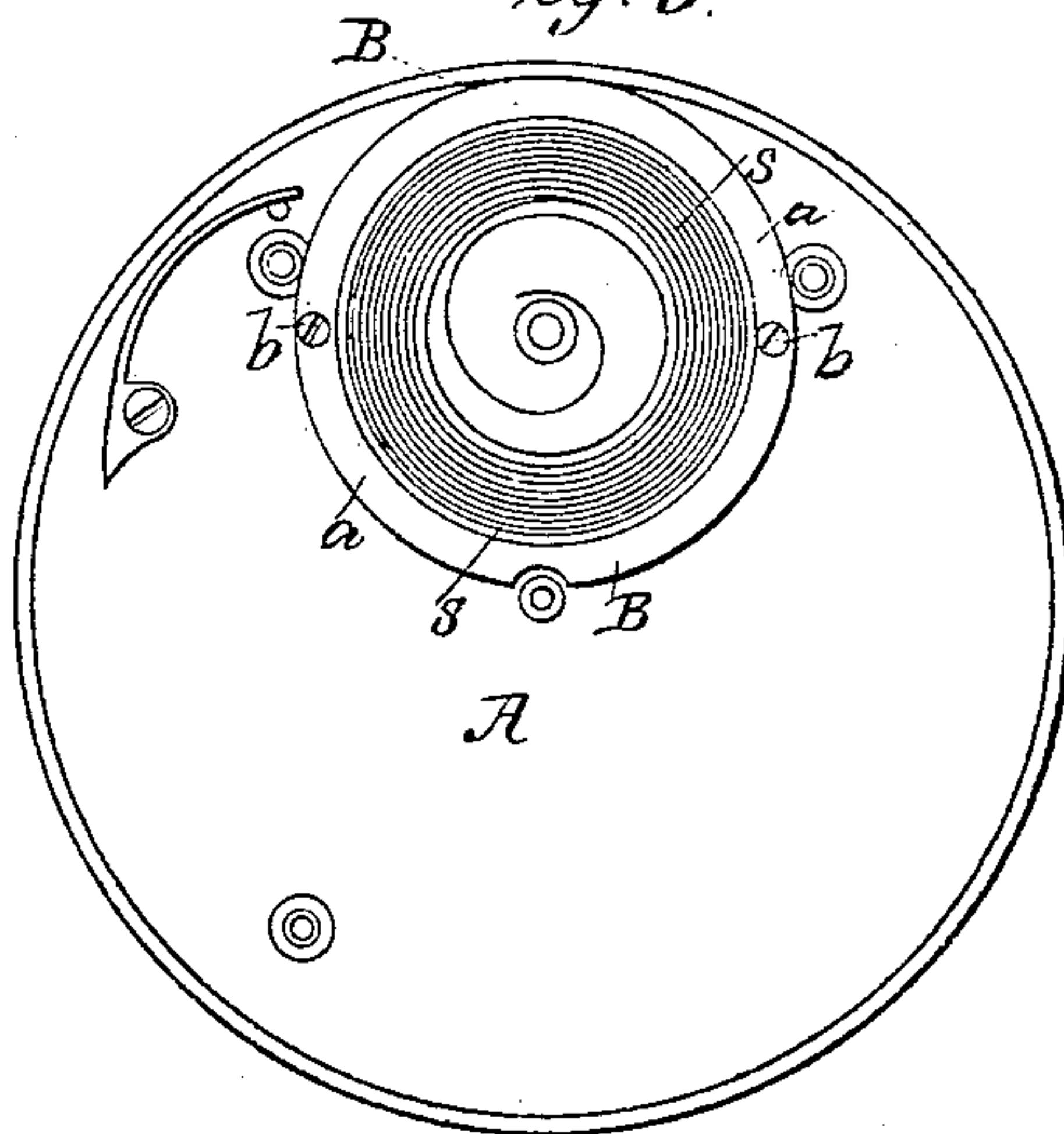


Fig: 2.

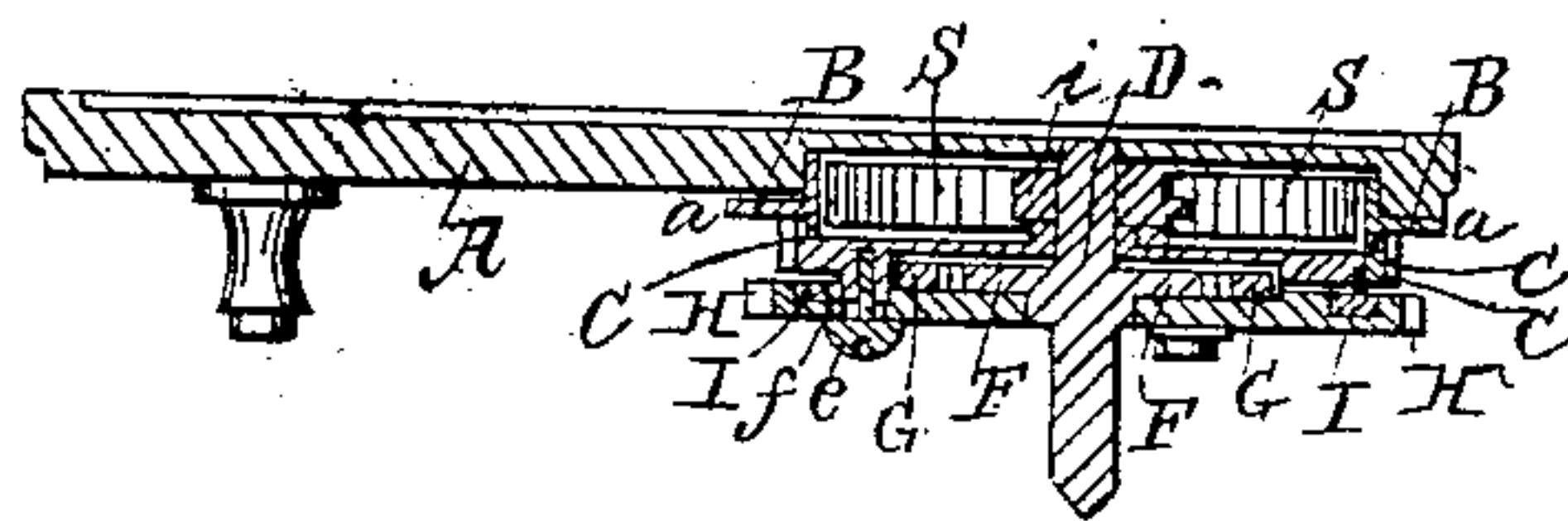


Fig: 4.

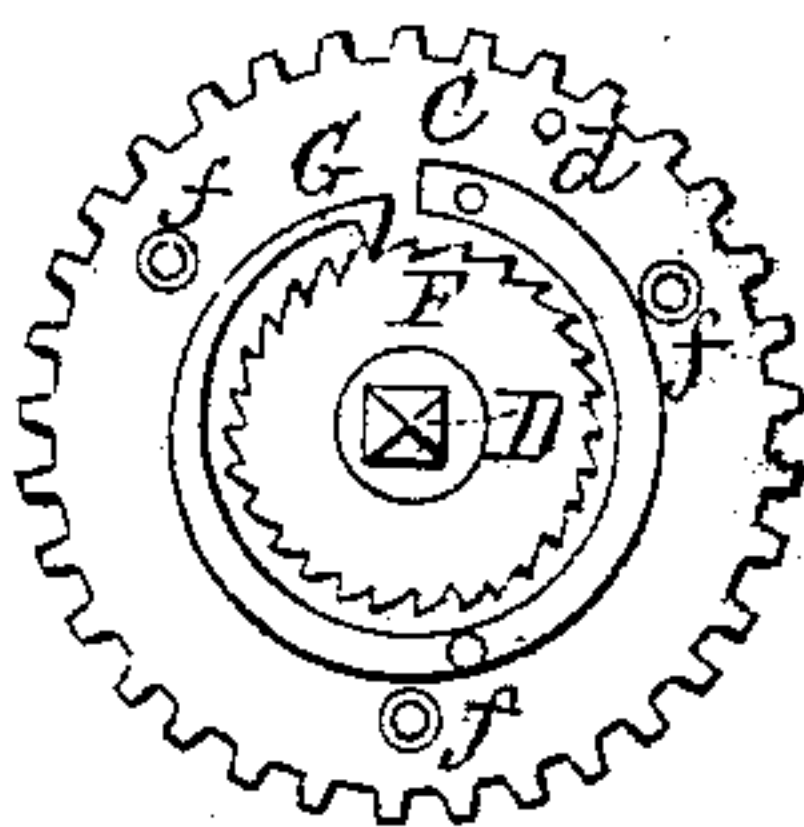
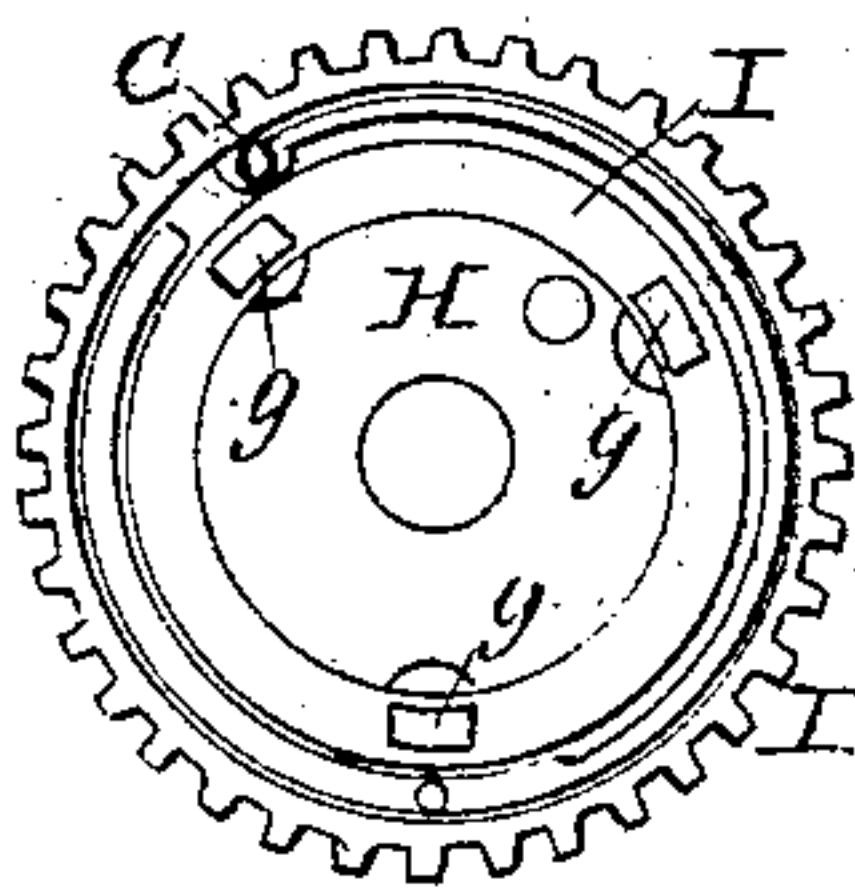


Fig: 3.



Witnesses

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UNITED STATES PATENT OFFICE.

NELSON P. STRATTON, OF WALTHAM, MASSACHUSETTS.

WATCH.

Specification of Letters Patent No. 26,715, dated January 3, 1860.

To all whom it may concern:

Be it known that I, NELSON P. STRATTON, of Waltham, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Watches; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1 denotes an underside view of a pillar plate of a watch with my improvement applied thereto. Fig. 2 is a transverse section of the same. Fig. 3 represents an inner side view of the main gear, while Fig. 4 is a view of that side of the ratchet wheel which is next to the main gear and has the arbor ratchet and spring click applied to it. Fig. 5, is a view of the underside of the pillar plate with the barrel and mainspring applied within such pillar plate.

The nature of my invention consists in arranging the ratchet wheel between the main gear wheel and the barrel and so as to serve as a head to the latter and to support the winding arbor and its click, the maintaining power being arranged between the gear and the ratchet, and applied directly to the gear or in a circular groove formed in the inner face thereof.

In the drawings, A denotes the pillar plate and B the barrel containing the mainspring S. The said barrel is what is usually termed a "stationary barrel," and it is fastened directly to the pillar plate by means of a flange *a* and screws *b*, *b*, extending through it and screwed into the plate. The barrel projects into the plate or a circular hole formed through the same and having a diameter equal to that of the barrel. The upper side of the pillar plate is what is usually termed the dial side. The said barrel is capped or covered by the maintaining power ratchet wheel C, which is placed, on the winding arbor D, so as to be capable of rotating thereon, the said winding arbor carrying a secondary ratches F, whose spring click G, is affixed to the main ratchet C, and extends about the secondary ratchet as shown in the drawings.

While the barrel is capped or covered by the main ratchet, the main gear H, furnished

with a retaining power spring I, (sunk within it) is placed in contact with the main ratchet or is arranged with respect to it and the barrel as shown in the drawings. A small pin or stud *c*, extending from the maintaining power spring enters a hole *d*, formed in the main ratchet C, and thus connects the said ratchet with the main gear. A further connection of the two is effected by means of screws *e*, *e*, *e*, passed into projections *f*, that extend respectively from the ratchet into slots *g*, made through the main gear, the same allowing the ratchet C, to turn a little independently of the gear.

With respect to that part of the winding arbor which is within the barrel and about which the mainspring coils (such part being shown at *i*) it is solid on the arbor and serves as a shoulder to support the main ratchet C. The thickness of such part *i* should be such as to bring the main ratchet just out of contact with the rim of the barrel in order that the ratchet while serving as a cover or bottom to the barrel may turn freely on it.

The advantage of my arrangement with respect to that wherein the barrel is fixed in the pillar plate and capped or covered by the main gear placed between the barrel and the main ratchet is, that it enables the main gear to be readily removed from its place without the necessity of uncapping the barrel, or of separating the winding arbor from the main or maintaining ratchet. There are other advantages also, which will be readily comprehended and appreciated by skilful watch makers.

I do not claim so arranging the barrel with respect to the pillar plate, that the former shall extend through the latter and be fastened to its dial side, the barrel, as shown in the drawings hereinbefore referred to, being fastened to the opposite side of the pillar plate. Nor do I claim arranging the main gear wheel with the retaining power and the barrel arbor so that the said wheel shall serve the purpose of a barrel head or cover to the barrel; as the maintaining power ratchet wheel, in my arrangement serves as a cover to the barrel, the retaining

power being placed between the ratchet and the main gear wheel being arranged upon the outer face of the ratchet.

Therefore, what I claim as my improvement is—

The arrangement wherein, the main ratchet wheel C is disposed between the main gear wheel and the barrel and made to serve as a head to the barrel and to support

the winding arbor and its spring click, as described, the maintaining power spring being arranged between the gear and ratchet, as specified.

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Witnesses:

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