

No. 876,153.

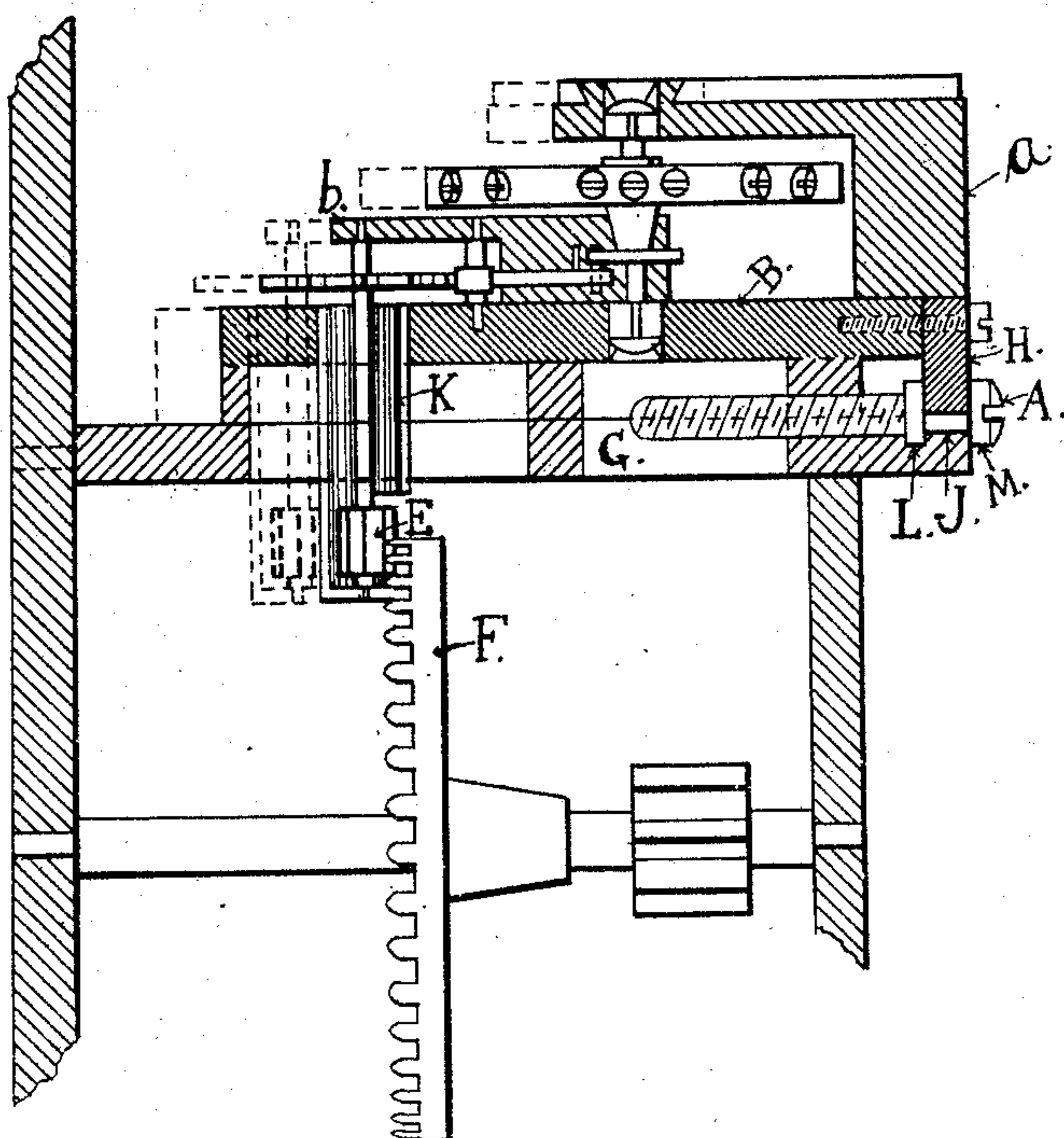
PATENTED JAN. 7, 1908.

W. W. & W. R. DUDLEY.
ADJUSTABLE ESCAPEMENT FOR CLOCKS AND WATCHES.

APPLICATION FILED JUNE 16, 1905.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses
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2 SHEETS—SHEET 2.

Fig. 2.

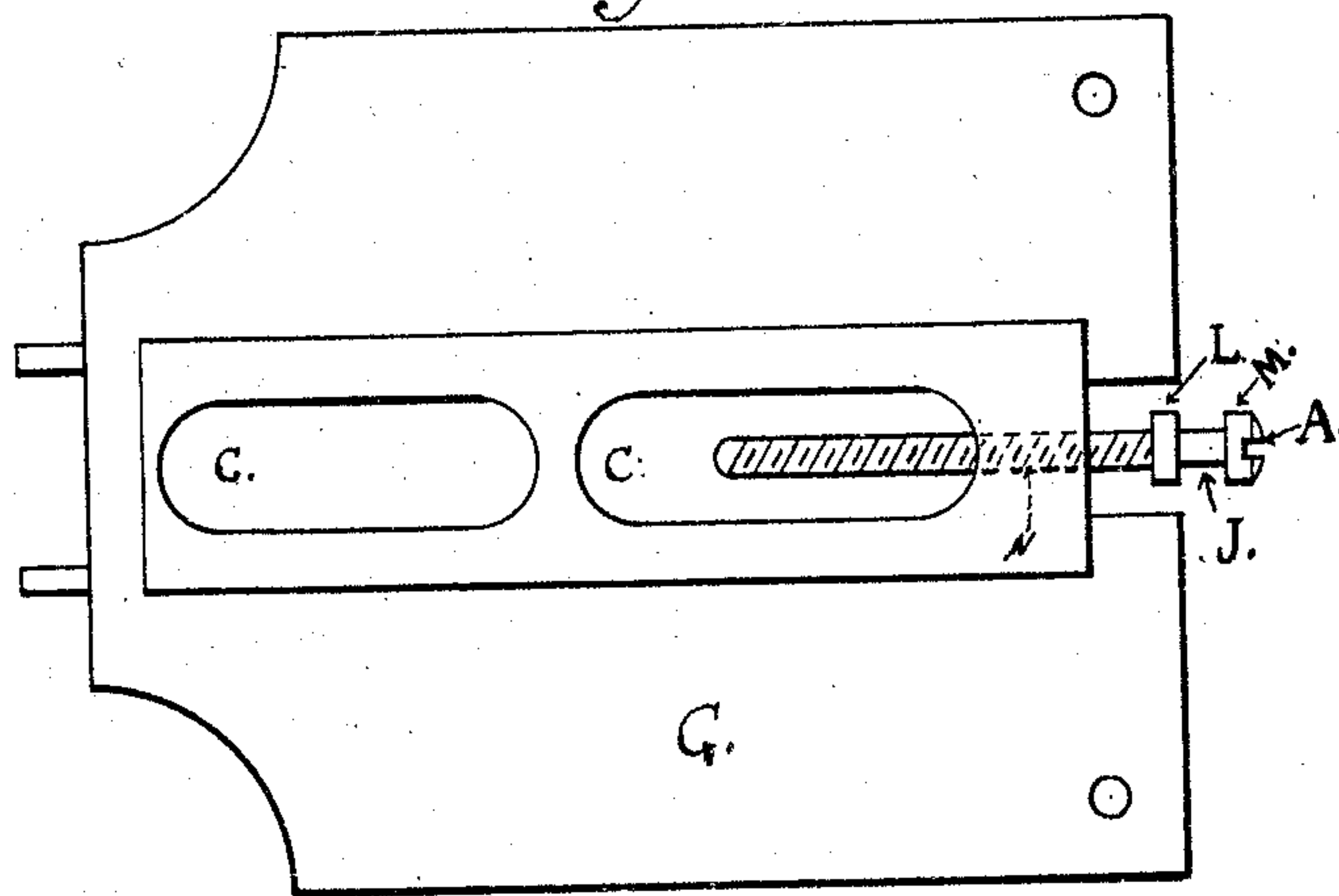


Fig. 3.

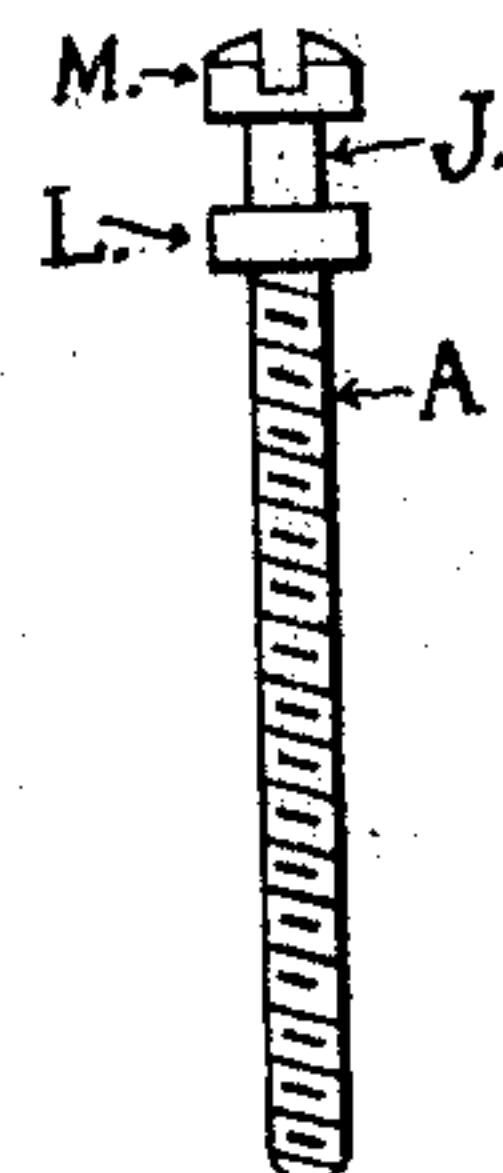


Fig. 4.

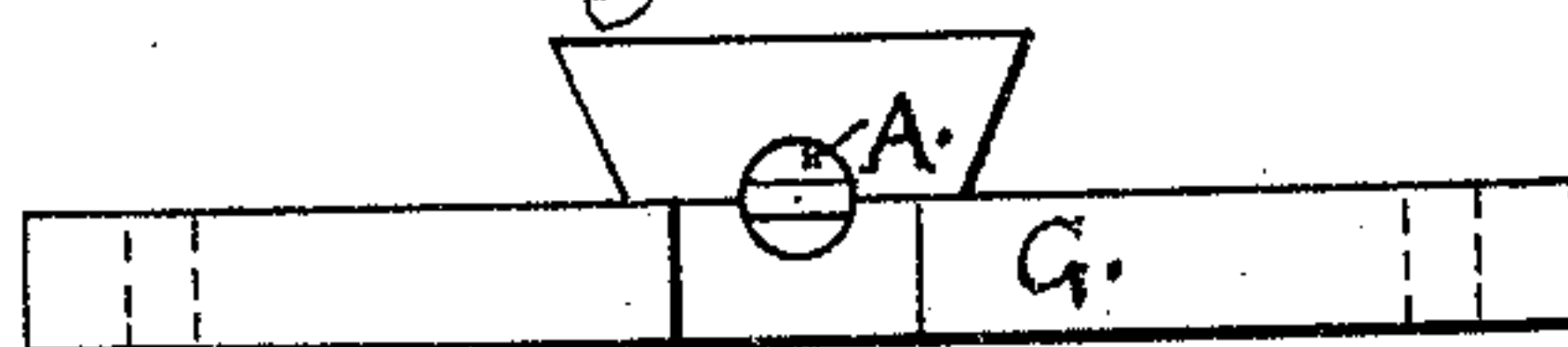


Fig. 5.

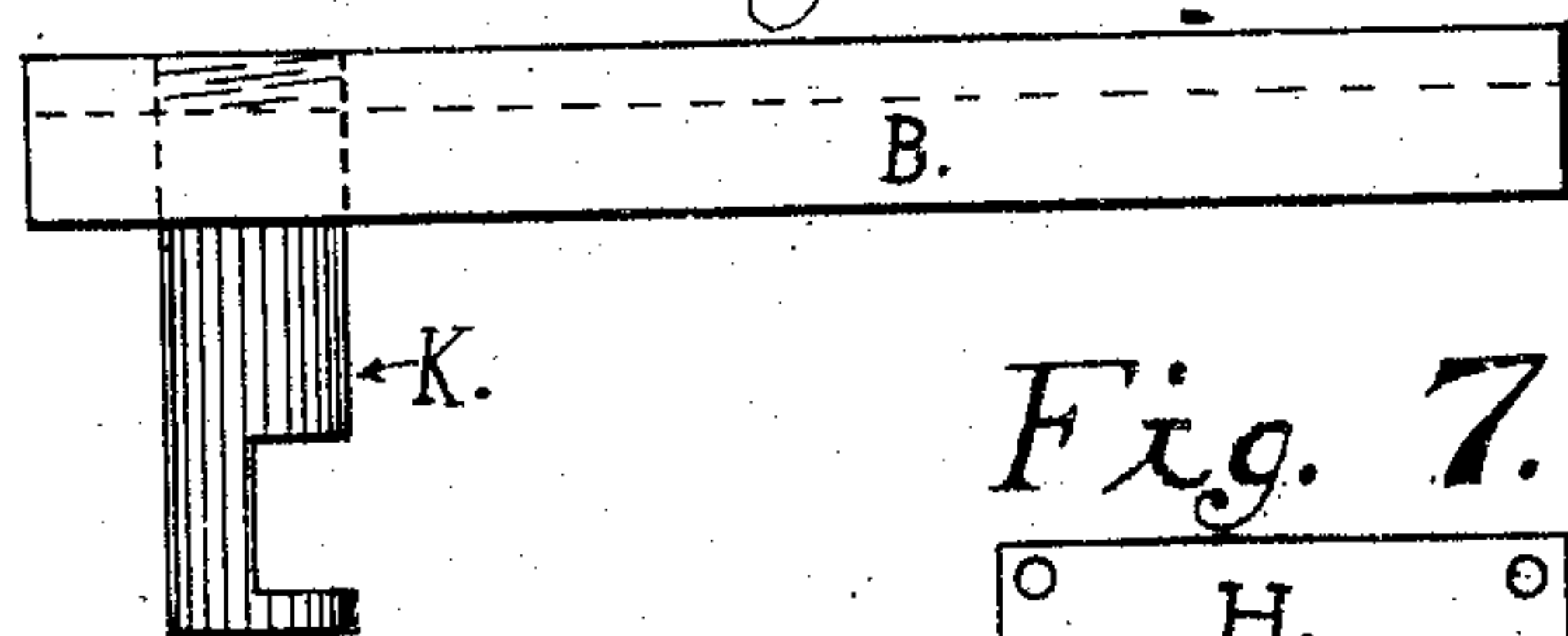


Fig. 6.

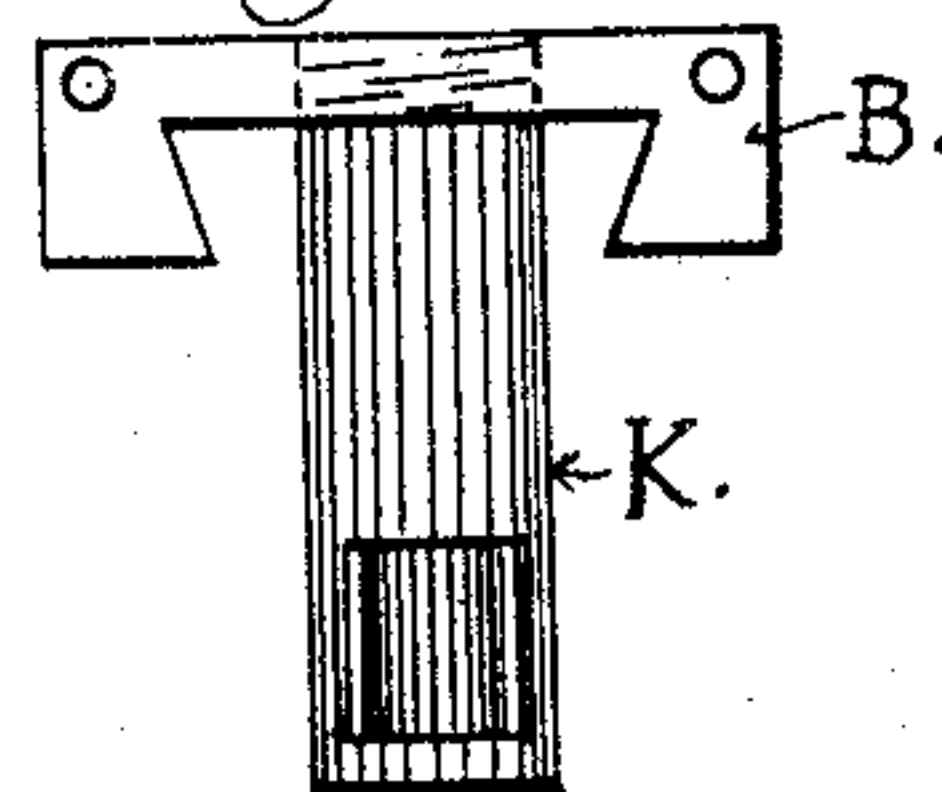
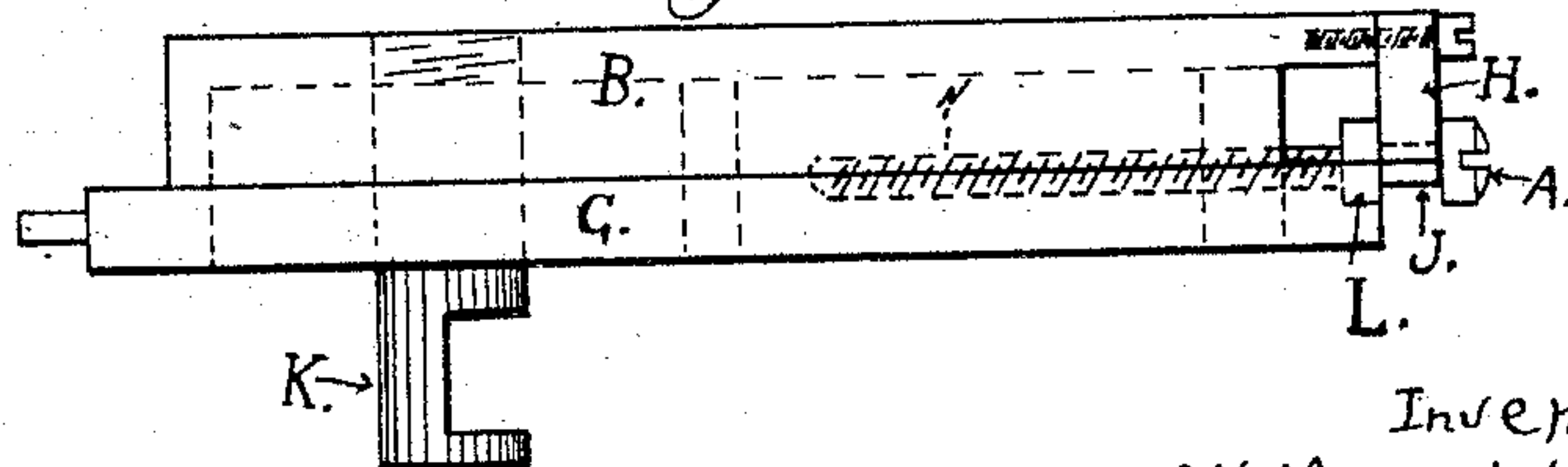


Fig. 7.



Fig. 8.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM W. DUDLEY AND WALLACE R. DUDLEY, OF LANCASTER, PENNSYLVANIA.

ADJUSTABLE ESCAPEMENT FOR CLOCKS AND WATCHES.

No. 876,153.

Specification of Letters Patent.

Patented Jan. 7, 1908.

Application filed June 16, 1905. Serial No. 265,609.

To all whom it may concern:

Be it known that we, WILLIAM W. DUDLEY and WALLACE R. DUDLEY, of Lancaster, in the county of Lancaster, State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Escapements for Watches, Clocks, &c., and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section of a portion of a clock train embodying my invention; Fig. 2 a detail top plan view of the escapement supporting bridge; Fig. 3 a detail view of the adjusting screw; Fig. 4 a detail end view of the escapement supporting bridge; Figs. 5 and 6 are, respectively, detail side and end views of the escapement carrying slide; Fig. 7 a detail side view of the screw swiveling cap; and, Fig. 8 a detail side view of the escapement supporting bridge and the escapement carrying slide assembled.

The object of our invention is to provide means for the quick, accurate and nice adjustment and regulation of time pieces by manipulation of the escapement, and to this end our invention consists in the mechanism constructed substantially as hereinafter specified and claimed.

In the embodiment of our invention illustrated in the drawings, a stationary bridge G is secured to the time piece frame or plates contiguous to the fourth wheel F of the train, and slidably mounted upon said bridge is a slide block B, the latter having a longitudinal dove-tail groove in its under side that engages a similarly shaped projection on the bridge. On the slide block B is mounted the balance bridge *a* and the escapement and pallet bridge *b*, together with the balance wheel, escapement wheel and pallet. On the arbor of the escapement wheel is the pinion

E which meshes with the fourth wheel F, said pinion and arbor being within and inclosed by a hollow cylinder or potence K, which is fastened to the slide block B.

It will be seen that by moving the slide block B the entire escapement may be moved and the pinion E moved into and out of engagement with the wheel F, and the most accurate and nice adjustment of the teeth of the pinion E and the teeth of the wheel F for proper depthing effected. The stationary bridge is provided with an elongated hole or slot *c* to accommodate the potence K.

Any desired means for shifting or adjusting the escapement carrying slide block B may be employed, but a simple and desirable adjusting means consists of a screw A whose thread engages a threaded opening in the bridge G, and which has a swiveled connection with the slide block B formed by a cap H attached to the end of the slide block and lying between a collar L on the screw and the head M of the screw.

Having thus described our invention, what we claim is:—

In a time piece, the combination of a stationary bridge, a slide block mounted upon said bridge, a balance wheel and its bridge mounted upon said slide block, an escapement, including a pinion, mounted upon said slide block, all the parts mentioned being movable with the slide block, and a wheel forming part of the time train with which said pinion meshes and relative to which it moves when the slide block is moved.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM W. DUDLEY.
WALLACE R. DUDLEY.

Witnesses:

E. R. WALKER,
HENRY D. LANNING.