

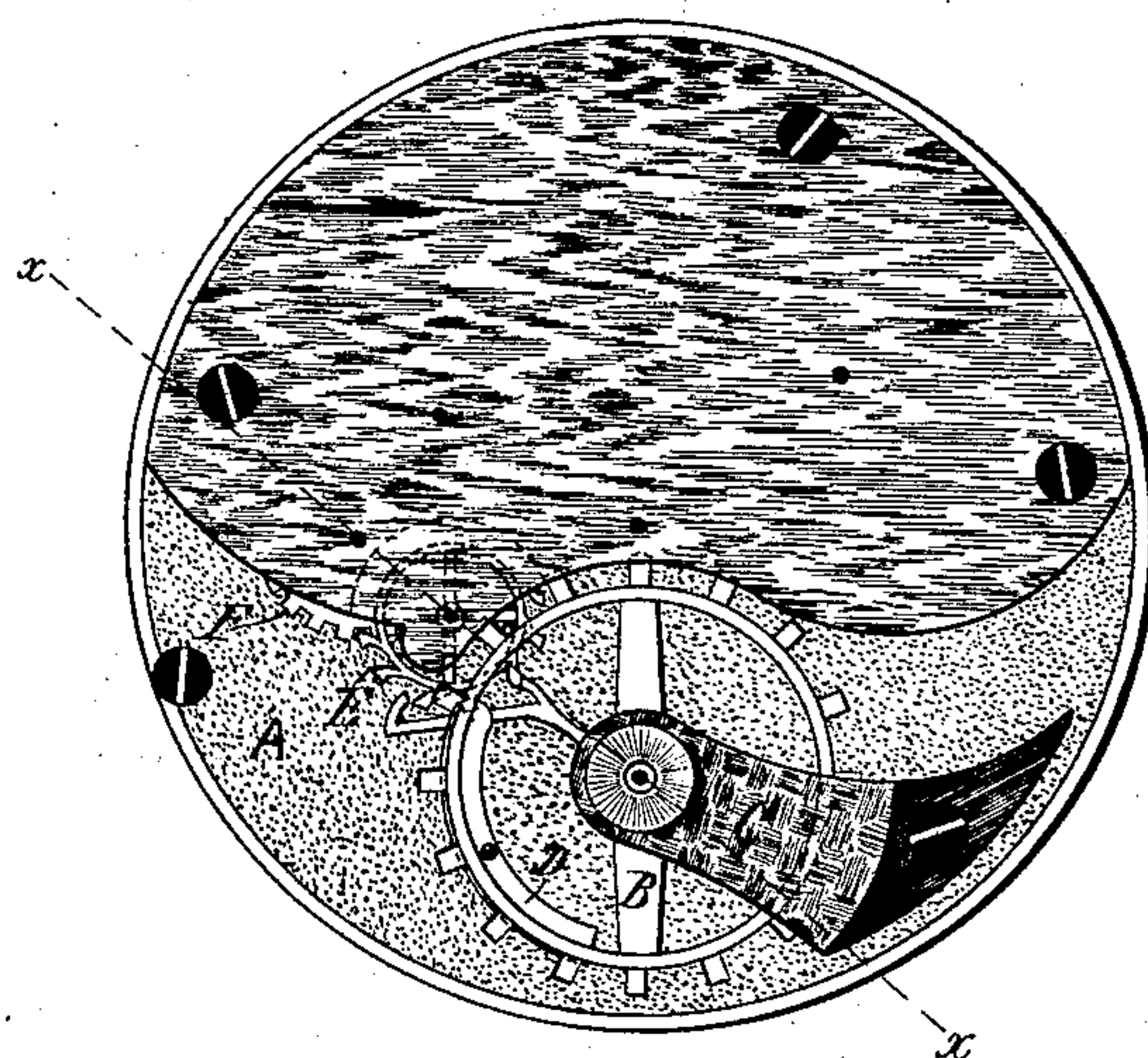
(No Model.)

R. L. PEABODY.  
STRAIGHT LINE WATCH.

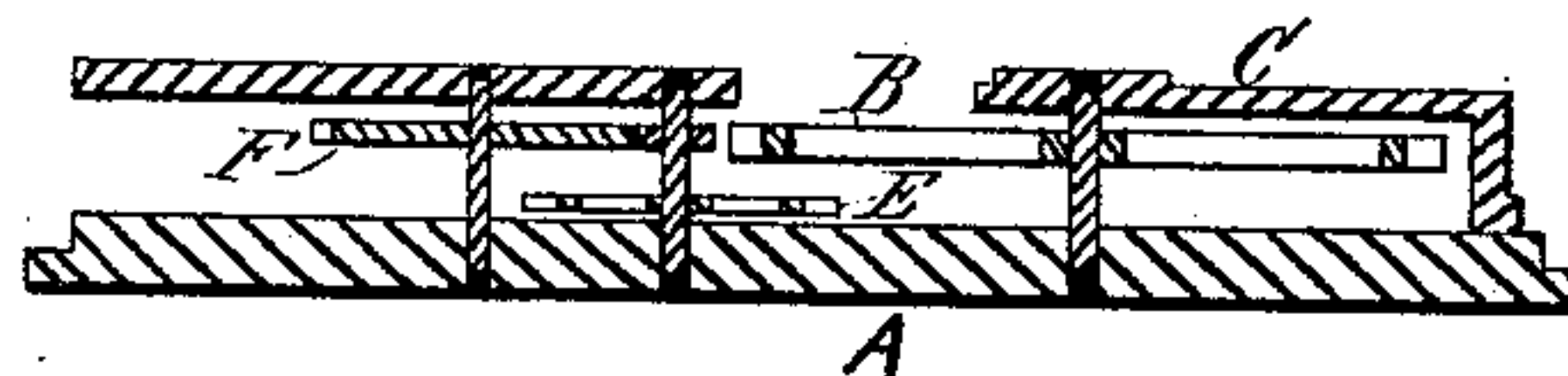
No. 281,295.

Patented July 17, 1883.

*Fig. 1.*



*Fig. 2.*



Witnesses.  
John Buckler,  
J. W. Hanaford.

R. L. Peabody,  
Inventor.  
By North & Leonard  
Attorney.



# UNITED STATES PATENT OFFICE.

ROSWELL L. PEABODY, OF WALTHAM, MASSACHUSETTS.

## STRAIGHT-LINE WATCH.

SPECIFICATION forming part of Letters Patent No. 281,295, dated July 17, 1883.

Application filed July 21, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ROSWELL L. PEABODY, of Waltham, county of Middlesex, and State of Massachusetts, have invented certain new and useful Improvements in Watches, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My improvement does not contemplate any new or original parts, but an improved or new plant or arrangement of the parts comprising the lever-escapement. Instead of the "straight-line escapement," (which is in almost universal use in "half-plate," "three-quarter plate," and "bridge" watches,) I locate the escape-wheel between the fourth wheel and the balance, thus forming a straight-line watch with this arrangement of these three pieces or parts. My object in this arrangement of the parts is to make a more attractive, better, and cheaper watch than can be made with any model now in use or of which I am aware.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan or top view of a watch constructed and arranged in accordance with my invention, and showing only the parts necessary to an understanding of my improvements. Fig. 2 is a sectional view upon a plane through line *x x* of Fig. 1.

In both these figures like letters of reference, wherever they occur, indicate corresponding parts.

A is the pillar-plate or bed of the train, in which the shafts of the several wheels are stepped in the usual manner. B is the balance. C is the cock which sustains the balance. D is the cock which sustains the anchor. E is the escape-wheel, and F the fourth wheel.

It will be seen from the drawings that the balance, the escape and the fourth wheels have their axes located in a straight line, (line *x x* of Fig. 1,) and that the anchor-pivot is located at one side of this line, the lines drawn from the pivot to the axes of the escape-wheel and balance-wheel lying at or nearly at right angles to each other, giving a substantially right-angled escapement, and this angle may be made a complete right angle, if desired. Thus I am enabled to produce a movement having all the advantages of the right-angle escapement with those of the straight-line watch. This arrangement of the parts in a straight line, as

explained, affords a ready view of all the parts of the escapement, rendering it easy and convenient to adjust the parts, to assemble and disassemble them, and to inspect them after they are all united.

The improved arrangement or plant can be manufactured cheaper, more accurately and rapidly than the old forms, and can be assembled with greater accuracy and rapidity, and thus the total cost to the manufacturer very much diminished.

The arrangement indicated makes an attractive watch-movement, pleasing to the eye of the ordinary purchaser as well as to the experienced watch-maker, and for the general design I propose to make application in due time for a design patent.

I am aware that the form of anchor herein shown is not new; also, that it has heretofore been proposed to locate the pivots of the escape-wheel, balance, and anchor in a straight line; and also to locate the anchor-pivot at one side of the line joining the pivots of the balance and escape wheels, forming a right-angled escapement. These features have been shown in United States Letters Patent, and I do not desire to be understood as making any claim to them. My improvements accomplish objects, as before set forth, which are not attained by any of the arrangements heretofore known to me.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a watch-movement, the combination of the balance, the escape-wheel, and the fourth wheel, having their axes located in the same straight line, the anchor-escapement sustained by the cock D, and pivoted at one side of said straight line, as shown, so that the angle between the lines joining said pivot with the axes of the balance and escape wheel shall lie at or nearly at right angles to each other, and the cock C, the whole being arranged, substantially as shown, so that the pallets are located on one side of the escape-wheel, and so as to expose all the parts for convenience of inspection, assembling, and adjustment, for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

Witnesses: R. L. PEABODY.  
JOHN BUCKLER,  
WORTH OSGOOD.