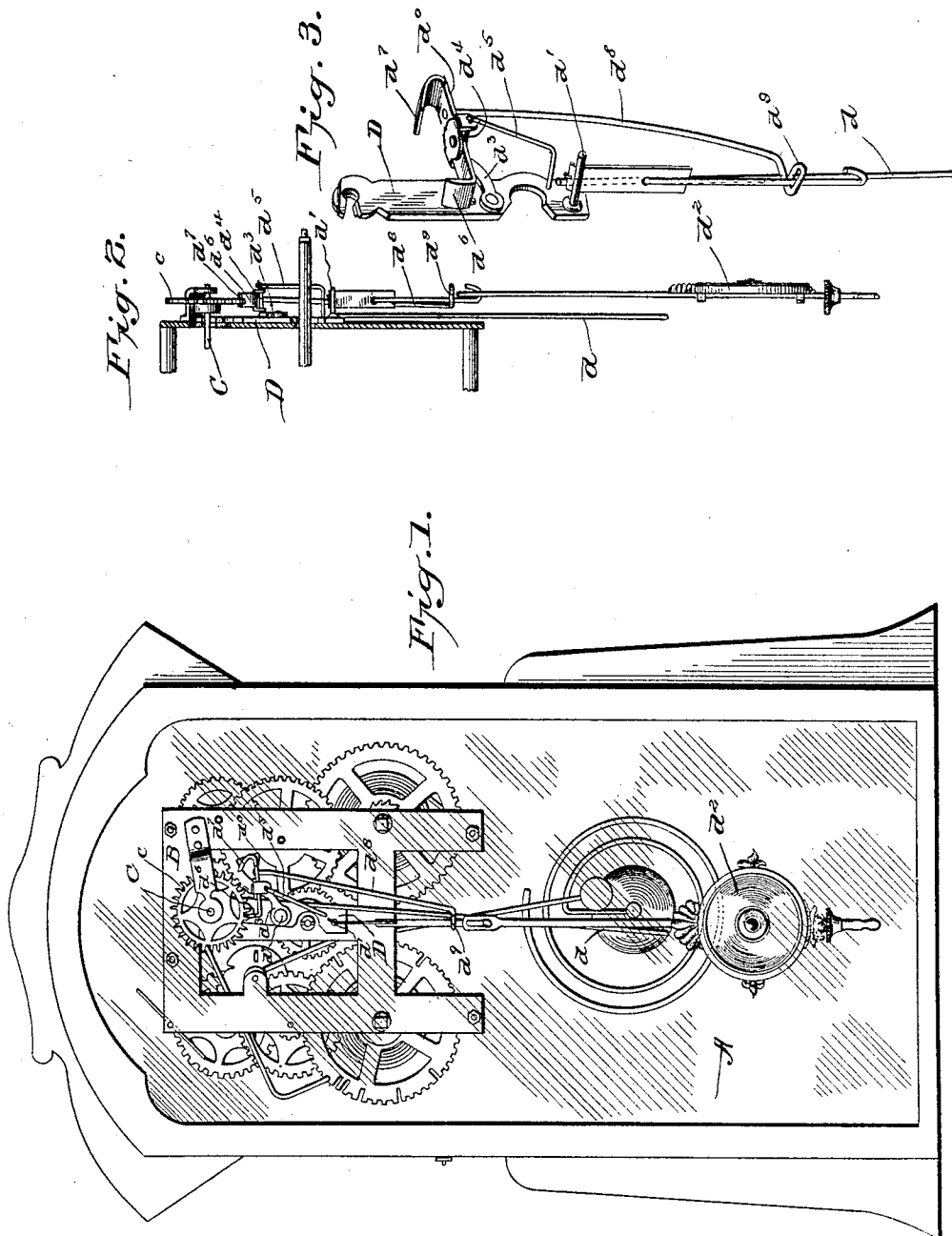


No. 824,537.

PATENTED JUNE 26, 1906.

A. D. GARY.
CLOCK.

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WITNESSES:

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CLOCK.

No. 824,537.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT DAVIS GARY, a citizen of the United States, and a resident of Lavonia, in the county of Franklin and State of Georgia, have invented certain new and useful Improvements in Clocks, of which the following is a specification.

My invention is an improvement in clocks; and it consists in certain novel constructions and combinations of parts hereinafter described and claimed.

Referring to the drawings forming a part hereof, Figure 1 is a front elevation of a clock provided with my improvement. Fig. 2 is a vertical longitudinal section through the escape mechanism, and Fig. 3 is a detail perspective view of the escapement and connected parts.

In the practical application of my invention I provide a clock A, comprising a train B of ordinary construction and having an escapement-shaft C with a pinion *c* secured thereto. A plate D of the form shown in Fig. 3 is pivoted to the escapement-shaft, a rod *d* being rigidly secured to the lower edge of the shaft and depending therefrom. A stud-shaft *d'* is secured to the lower end of the plate, and depending therefrom is a pendulum *d''* of any desired construction. An arm *d'''* is secured to the plate adjacent to the pinion, and upon the end of the arm is a stud-shaft *d''''*, a brace *d'''''* connecting the free end of the stud-shaft with the plate. An anchor *d''''''*, provided with the pallets *d'''''''*, is journaled upon the stud-shaft, an arm *d''''''''* being rigidly secured to the anchor and engaging the pendulum by means of a loop *d'''''''''*.

As will be evident from the description, the entire escapement mechanism is mounted upon the movable support or plate D, and by means thereof the escapement mechanism may be adjusted with respect to the train. The clock may by this means be adjusted to run and keep perfect time regardless of the position of the train, since the escapement mechanism will always be perpendicular. No nice adjustment of the supporting-shelf is necessary for a clock provided with my improvement, the clock being placed upon the shelf or support and the escapement mechanism adjusted to suit the requirements of the support.

It will be evident from the description that

my improvement while simple in construction is yet efficient in operation and is not liable to get out of order, since there is no complicated mechanism. The improvement may be applied to existing clocks, since but slight changes are necessary. The position of the supporting-plate is adjusted by means of the wire *d*, depending therefrom, and the position of the wire is an index to the correct adjustment, the parts being in proper position when the wire is parallel with the stem of the pendulum.

It will be noticed that the bearing in the plate D to fit over the escapement-shaft is an open bearing having a slot extending laterally to the edge of the plate, so that the plate may be readily applied to and removed from the shaft without involving the necessity of removing the escapement-wheel to permit the application of the plate over the end of the shaft. This is convenient in adjusting the improvement to clocks already constructed, as well as repairing clocks embodying the improvement, as it permits the ready removal and application of the pendulum and all other parts connected with or supported by the plate D. It will also be noticed that my improved plate D, carrying the pallet, is pivoted concentrically with the pallet-wheel, so that the adjustment of the plate in the use of the invention effects a swinging of the pallet of the escapement concentric with the circle of the escapement-wheel, as best shown in Fig. 1 of the drawings.

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

The combination with the clock-train having an escapement shaft and wheel, of a plate having a laterally-extending arm, a pallet for engaging the escapement-wheel mounted on the arm, a pendulum mounted to swing upon the plate, a connection between the pallet and the pendulum, said plate being provided with a bearing for engaging the escapement-shaft and a slot leading therefrom to permit removal and attachment of the plate, and a rod secured to the plate and extending therebelow whereby to swing the plate.

ALBERT DAVIS GARY.

Witnesses:

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