

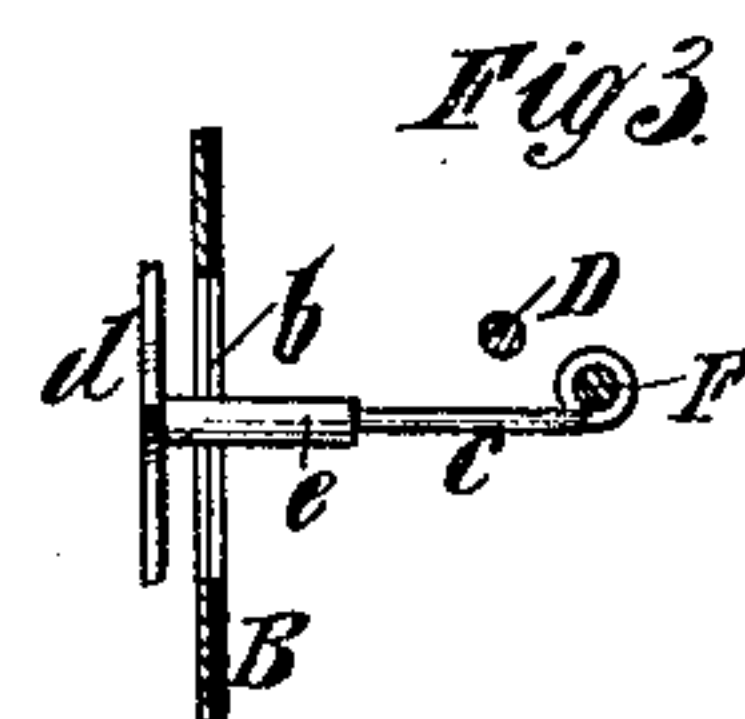
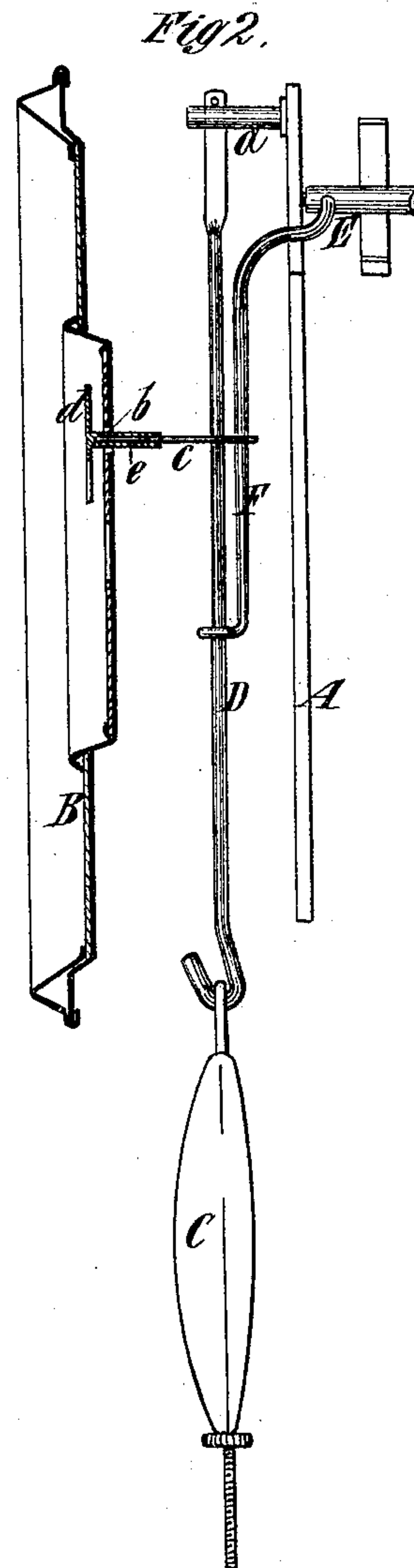
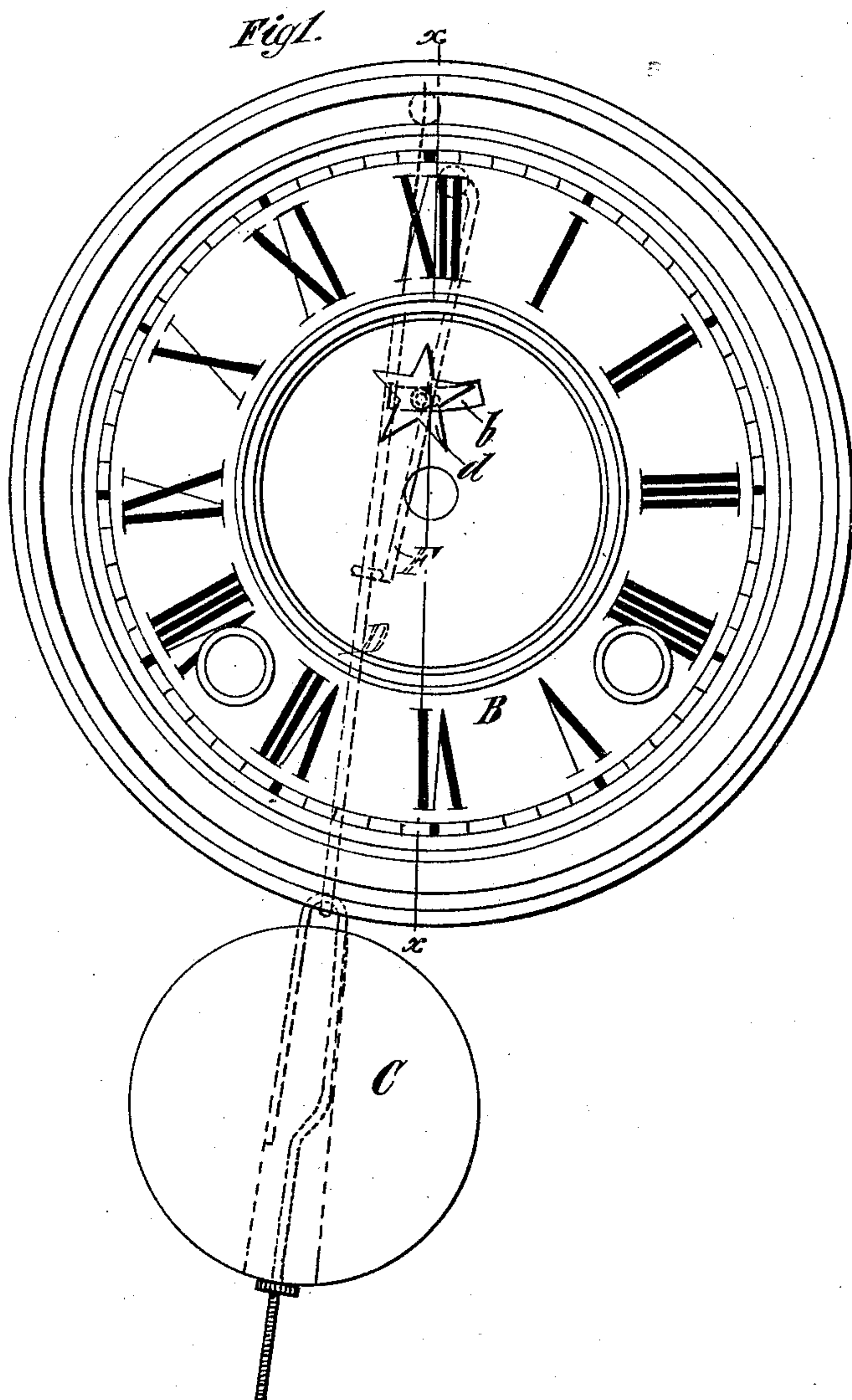
(No Model.)

H. J. DAVIES.

# PENDULUM INDICATOR FOR CLOCKS.

No. 248,716.

Patented Oct. 25, 1881.



Witnesses  
 Geo. H. Hays  
 A. C. Webb

*Inventor*  
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# UNITED STATES PATENT OFFICE.

HENRY J. DAVIES, OF BROOKLYN, NEW YORK.

## PENDULUM-INDICATOR FOR CLOCKS.

SPECIFICATION forming part of Letters Patent No. 248,716, dated October 25, 1881.

Application filed April 14, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY J. DAVIES, of Brooklyn, in the county of Kings and State of New York, have invented a certain new and Improved Pendulum-Indicator for Clocks, of which the following is a specification.

The pendulum-clocks which are most popular at the present time are those in which the pendulum is not visible from the front of the case when the latter is closed. It cannot readily be ascertained, however, whether such a clock is going without opening the case or listening for the beat of the clock; and the object of my invention is to enable one to tell whether such clock is going by simply glancing at the dial.

To this end the invention consists in the combination, in a clock, with the crutch-wire, pendulum-rod, or other part moving or vibrating in unison with the pendulum, and a dial having in it a slot or opening, of a pin or arm attached to said vibrating part and projecting through the slot or opening in the dial, and an indicator attached to said pin or arm in front of the dial and moving with the pendulum, thus enabling a person to readily ascertain whether the clock is going by simply glancing at the dial. The indicator may be attached to said pin or arm, so that it may be readily detached therefrom, thus affording provision for readily substituting for one indicator another of different form.

In the accompanying drawings, Figure 1 represents a front view of a dial and pendulum having my indicator applied thereto. Fig. 2 represents a section on the dotted line *xx*, Fig. 1; and Fig. 3 represents a horizontal section of a portion of the dial, crutch-wire, pendulum-rod, and indicator.

Similar letters of reference designate corresponding parts in all the figures.

A designates a portion of one of the plates of a clock-movement, and B designates the dial. C designates the pendulum-bob, and D the pendulum-rod suspended from the stud *a* in the usual manner. E designates the escapement-lever, and F designates the crutch-wire extending therefrom and serving to vibrate the pendulum-rod and pendulum in the usual way.

Attached to the crutch-wire F, and projecting forward therefrom through a slot or elongated hole, *b*, in the dial B, is a pin or arm, *c*, and at the front end of said pin or arm and in front of the dial is attached an indicator, *d*,

which, as here represented, consists of a star, but which might be made in any form to suit the fancy.

The indicator *d* might be permanently attached to the pin or arm *c* by solder or otherwise; but it may be attached so that it may be readily removed, when desired, and another indicator of different form substituted therefor. In the present example of my invention the indicator has a socket, *e*, projecting from its inner face or back, and adapted to fit over or receive within it the pin or arm *c*. As the crutch-wire F moves back and forth the pin or arm *c* and the indicator *d* move with it, and the slot or opening in the dial should be of sufficient length to prevent the pin or arm *c* from striking at the ends of the slot or opening.

Where the pendulum is adjustable up and down on the pendulum-rod to regulate the clock, the pin or arm *c* might be attached to the pendulum-rod; but where the pendulum-rod is raised or lowered to regulate the clock, if the pin or arm were attached to the pendulum-rod the opening in the dial would necessarily have to be large enough to admit of the pin or arm moving vertically therein.

By my invention I provide in a very simple manner for ascertaining, by glancing at the dial, whether a clock is going.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a clock, the combination, with a part moving or vibrating in unison with the pendulum, and a dial having in it a slot or elongated opening, of a pin or arm attached to said vibrating part and projecting through the slot or opening in the dial, and an indicator attached to said pin or arm in front of the dial, substantially as and for the purpose specified.

2. In a clock, the combination, with a part moving or vibrating in unison with the pendulum, and a dial having in it a slot or opening, of a pin or arm attached to said vibrating part and projecting through the slot or opening in the dial, and an indicator detachably secured to said pin or arm in front of the dial, whereby provision is afforded for readily substituting one indicator for another of different form, substantially as and for the purpose specified.

HENRY J. DAVIES.

Witnesses:

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