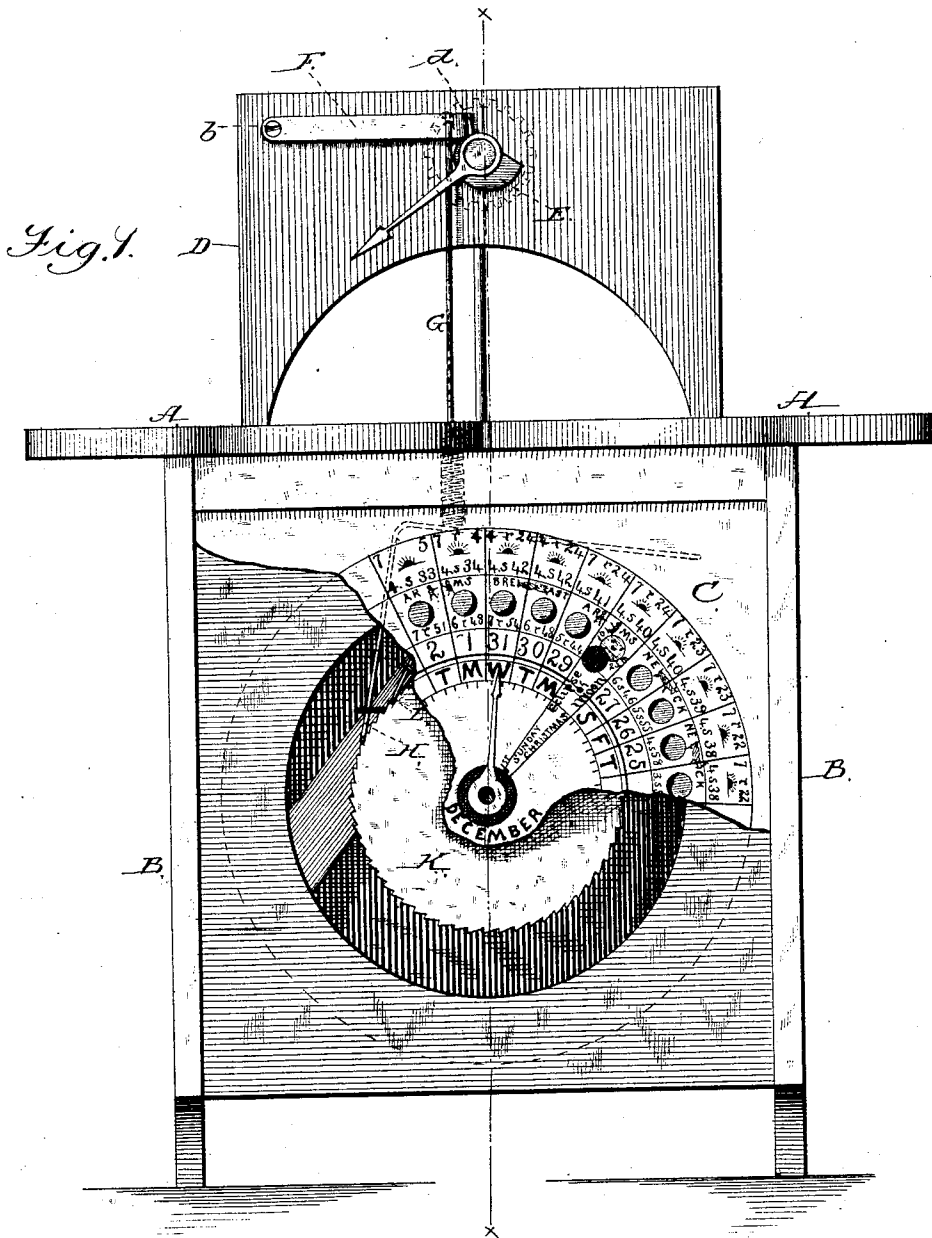


W. H. STEWART.
Calendar-Clock.

No. 225,888.

Patented Mar. 23, 1880.



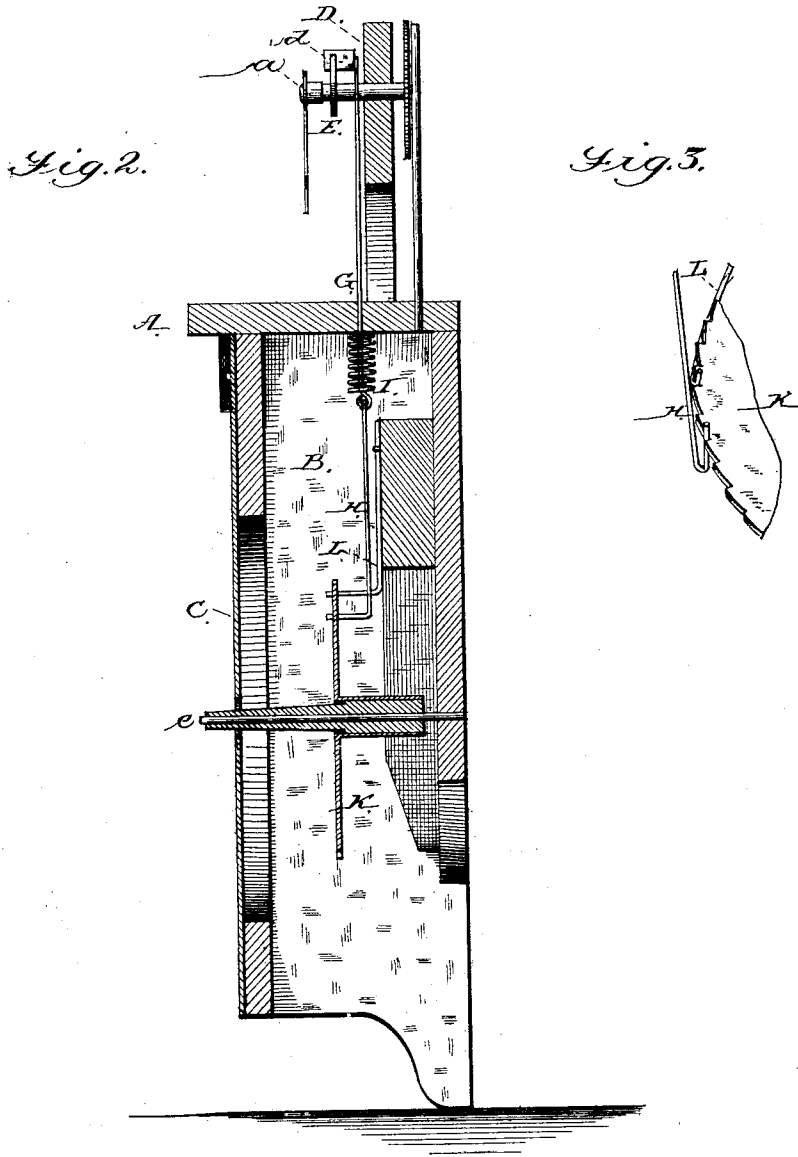
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Wm. H. Stewart
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UNITED STATES PATENT OFFICE.

WILLIAM H. STEWART, OF BOONVILLE, MISSOURI, ASSIGNOR OF ONE-HALF
OF HIS RIGHT TO J. B. PRICE.

CALENDAR-CLOCK.

SPECIFICATION forming part of Letters Patent No. 225,888, dated March 23, 1880.

Application filed January 3, 1880.

To all whom it may concern:

Be it known that I, WILLIAM H. STEWART, of Boonville, in the county of Cooper and State of Missouri, have invented a new and Improved Clock-Calendar; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

10 Figure 1 is a front elevation, showing the manner in which my calendar is attached to any ordinary clock. Fig. 2 is a vertical sectional view on the line *xx* of Fig. 1. Fig. 3 is a detail perspective of part of the ratchet-wheel and pawls.

15 The object of my invention is to provide a calendar attachment adapted to be applied to any clock; and my invention consists in a casing made as a bracket or shelf to support a clock, said casing containing a toothed wheel operated by a spring-pawl attached to a wire which passes through the shelf up into the clock-casing, and has its end fastened to the loose end of a lever pivoted to the clock-casing and provided on its loose end with a shoulder which rests on a cam placed upon the spindle of the hour-hand. From the toothed wheel beneath the shelf projects a shaft bearing a pointer, to indicate on the face of the bracket, by properly-disposed figures and signs, the day of the month, the phases of the moon, &c.

20 In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

25 In the said drawings, A represents a shelf provided with the side supports, B B, and an indicating-face, C, on which are characters indicating the day of the month, phases of the moon, &c. Resting on shelf A is the representation of or a dummy clock-work frame, D, from which projects the hour-hand spindle *a*. On this spindle, next to the frame D, is a cam, 30 E, which can be made with a sleeve to be

easily applied to the spindle of any clock in a very few minutes. Against the frame-work I pivot at *b* a lever, F, which is provided with a shoulder, *d*, which bears against the cam E, and at each revolution of the spindle of the 50 hour-hand the cam raises the loose end of lever F, and after it passes the highest point of the cam the lever suddenly drops. A wire, G, passes from the loose end of the lever through shelf A and has its end attached to a spring-pawl, H, which is raised by the lever until it passes the highest point of the cam and then is thrown forward or downward by a coiled spring, I, its end striking a tooth in a toothed wheel, K, which revolves on a spindle, *e*, said 60 spindle projecting through the indicating-face and bearing a pointer or hand, which changes position every time the wheel K is fed forward one tooth. A detent, L, bears against the wheel K, so as to prevent the wheel from reversing its motion when lever F is rising.

The indicating-face I make in removable sheets, each sheet representing a separate month, and at the end of such month to be removed, and at the end of each year a new 70 block or set of twelve months properly marked is placed around spindle *e*.

It is evident my invention can be easily and economically attached to any clock already made and a practical calendar-clock thereby 75 made.

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

A clock-supporting shelf provided with a 80 casing to contain an indicating-wheel, in combination with a clock, D, a removable and changeable indicating-face, and mechanism to operate an indicating-hand from the clock, substantially as set forth.

WILLIAM H. STEWART.

Witnesses:

WM. S. MYERS,

W. SPEED STEPHENS.