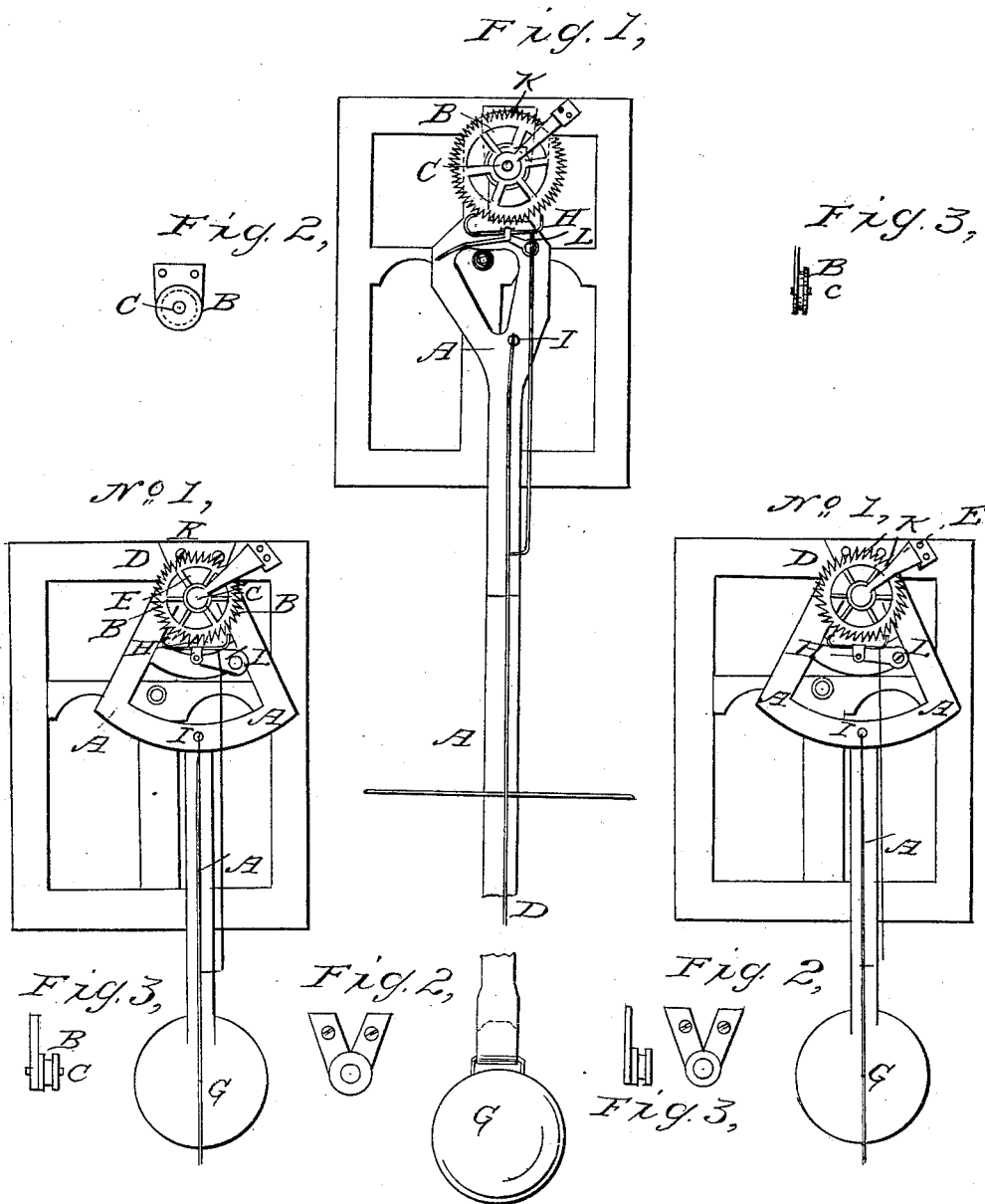


J. S. GREIG.
Clock Pendulum.

No. 5,017.

Patented March 13, 1847.



UNITED STATES PATENT OFFICE.

JNO. S. GREIG, OF WALDEN, NEW YORK.

SELF-ADJUSTING PENDULUM.

Specification of Letters Patent No. 5,017, dated March 13, 1847.

To all whom it may concern:

Be it known that I, JOHN S. GREIG, of Walden, county of Orange, and State of New York, have invented a new and useful

5 Improvement in the Construction of Clocks; and I do hereby declare, that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a front view of the improvement; Fig. 2, a front view of the cylindrical stud, Fig. 3, a side view of the same.

15 This improvement consists of an appendage which constitutes a self adjusting principle, and is calculated to remedy or avoid the difficulty experienced by many, in adjusting, or keeping adjusted the common clock, so as to keep the beat thereof regular. The addition, which constitutes the improvement, consists of a pendulous plate and ball A G, which is suspended from a collar, attached to the front plate of the clock at K, by means of the cylindrical stud B (Fig. 2 and 3). This stud, or collar, which constitutes the bearing of the self-adjusting pendulum, encircles the arbor C of the pallet wheel, but without coming in contact therewith.

25 The stand L which supports the verge H, as also the pin I from which the pendulum rod D is suspended, are attached to the self adjusting plate, which being kept in a ver-

tical position, by means of a ball G at the 35 bottom, the verge is kept constantly adjusted to the teeth of the pallet wheel, whether the clock stands in a perfectly perpendicular position, or is inclined several degrees to the right or left. The pendulum, the stand 40 L, the verge H, together with the necessary springs &c. connected with the escapement, are constructed in the same manner as in ordinary clocks. But instead of being attached to the frame of the clock, they are 45 all attached to the pendulous plate A.

This pendulous plate, together with its ball or weight G, and the cylindrical stud B (Fig. 2 and 3) constitutes the improvement, which I claim as my invention, and 50 desire to secure by Letters Patent.

This plate may be constructed of wood, or any kind of metal, and may be made to assume any fanciful shape, provided it contain the points necessary to the attachment 55 of the parts connected with the escapement and pendulum; and provided the part G be of sufficient weight to preserve the plate in a perpendicular position.

The cylindrical stud may be made of 60 brass, or any other metal, and may be attached to the frame of the clock by screws or otherwise.

JOHN S. GREIG.

Witnesses:

JAMES KIDD,
W. PULTING.