

No. 649,287.

Patented May 8, 1900.

H. W. EYSTER.

CLOCK FRAME.

(Application filed Nov. 29, 1899.)

(No Model.)

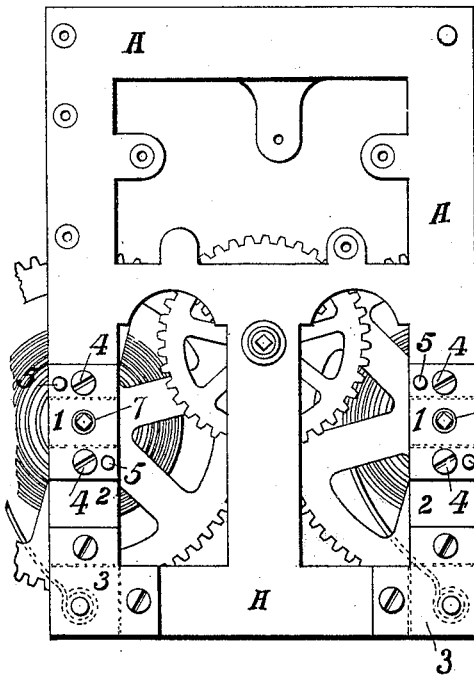


Fig. 1.

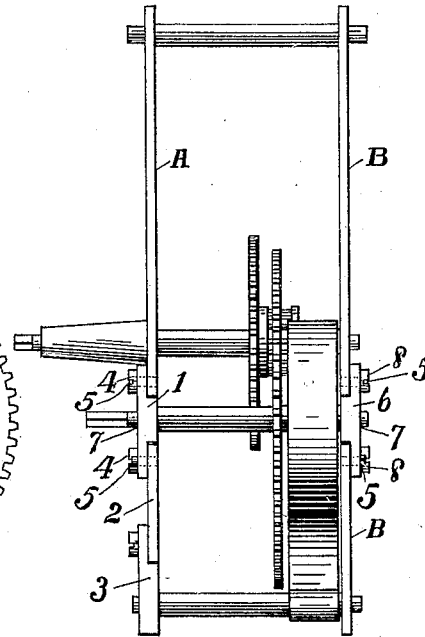


Fig. 2.

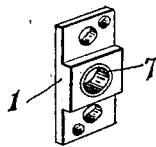


Fig. 3.

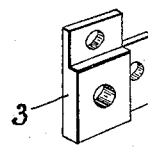


Fig. 4.

WITNESSES

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UNITED STATES PATENT OFFICE.

HALL W. EYSTER, OF EMMITTSBURG, MARYLAND.

CLOCK-FRAME.

SPECIFICATION forming part of Letters Patent No. 649,287, dated May 8, 1900.

Application filed November 29, 1899. Serial No. 738,667. (No model.)

To all whom it may concern:

Be it known that I, HALL W. EYSTER, a citizen of the United States, residing at Emmittsburg, in the county of Frederick and State of Maryland, have invented new and useful Improvements in Clock-Frames, of which the following is a specification.

My invention relates to an improvement in clock-frames.

10 Heretofore attempts have been made to construct clock-frames so that the mainspring-arbors could be removed without dismantling the frame or the mechanism generally known as the "works;" but in all such attempts
15 failure has resulted, from the fact that provision was only made for the lateral removal of the arbor at one end, and in consequence the arbor had to be swung or tilted to get it out, and by so swinging it the large gear-
20 wheel which it always carries interfered with the other gearing and resulted in either the absolute inability to get the arbor out or else great difficulty, if not damage to the wheel itself, as well as the others in its immediate
25 neighborhood.

One object of my invention is to obviate these defects and produce a frame of such construction that the mainspring-arbors can be removed without their being tilted the
30 slightest degree.

Further objects are to provide means for the removal of the spring-arbors and corner-posts together or separately, as required; and a still further object is to provide a simple
35 strong inexpensive frame which will be effectual in the accomplishment of the purposes set forth.

With these objects in view my invention consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view of the frame. Fig. 2 is an edge view, 45 and Figs. 3 and 4 are details.

A and B represent the front and back plates, respectively, of the frame. These are like the corresponding parts of other clock-frames, except that my improvements
50 are added to them. A section of the front plate from a point just above each of the mainspring-arbors is cut out, and in place

of this portion is a detachable sectional plate comprising one of the essential features of my invention. This is made up of two or 55 three separable pieces, and preferably three, (designated by the numerals 1, 2, and 3, respectively, as shown.) These are detachably connected together, so that one piece can be removed without in any wise disturbing the
60 others. For instance, piece 1, which supports the arbor, may be removed without the removal of the other two when only a partial cleaning is necessary or when the spring does not have to be taken from the corner-post. 65 These are connected together by screws or equivalent means 4 4, and to make the connection still stronger and perfectly rigid the pins or dowels 5 5 are employed. As explained, both lower corners are alike. On
70 the rear plate a single removable piece 6 is employed on each side, and on each side of the pieces 1 and 6, through which the arbor passes, bearing 7 projects inwardly flush with the inner face of each plate to form a shoulder 75 for the shouldered part of the arbor, just as it would be if the ordinary solid frame were used.

To remove the arbor alone, the two screws 8 8 on both the front and rear plate are simply unscrewed, and the arbor, with its spring gear-wheel and ratchet and pawl, are taken out laterally in its perpendicular position without the necessity of tilting the arbor the slightest degree, thus avoiding any inter- 85 ference whatsoever with other parts of the mechanism, which is the primary object of my invention.

If the mainspring is to be removed or the works are to have a thorough cleaning, then 90 the spring must be removed from the corner-post, and to do this the entire removable portion is taken off.

It is evident that slight changes might be resorted to in the form and arrangement of 95 the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but, 100

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

The combination with front and rear plates

of a clock-frame, of corner-plate 3, intermediate plate 2, plate 1, said plates secured together and connected to the main frame of the clock, plate 1 having dowels 5, 5, which
5 enter holes in the main frame and intermediate plate 2 to effect a rigid connection between said plates.

In testimony whereof I affix my signature in presence of two witnesses.

HALL W. EYSTER.

Witnesses:

A. Q. ANNAN,
VICTOR E. ROWE.