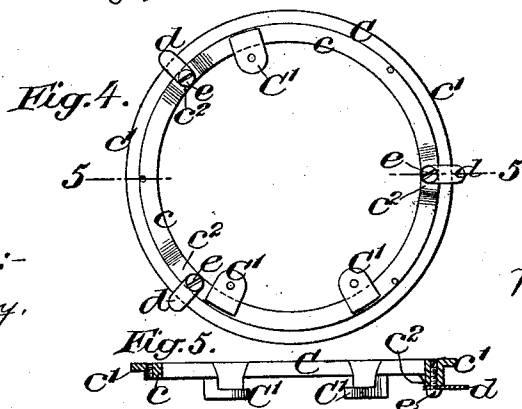
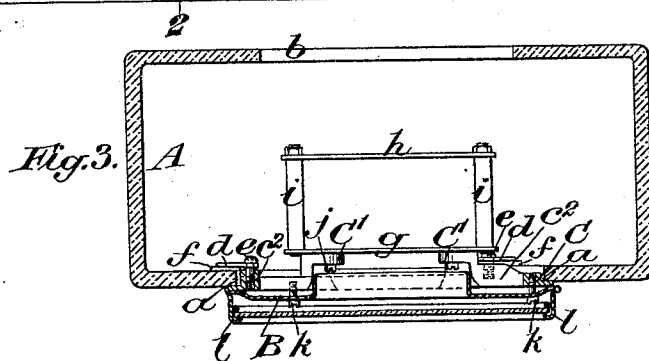
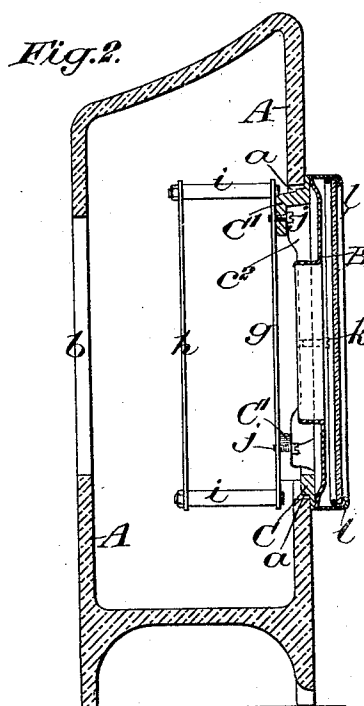
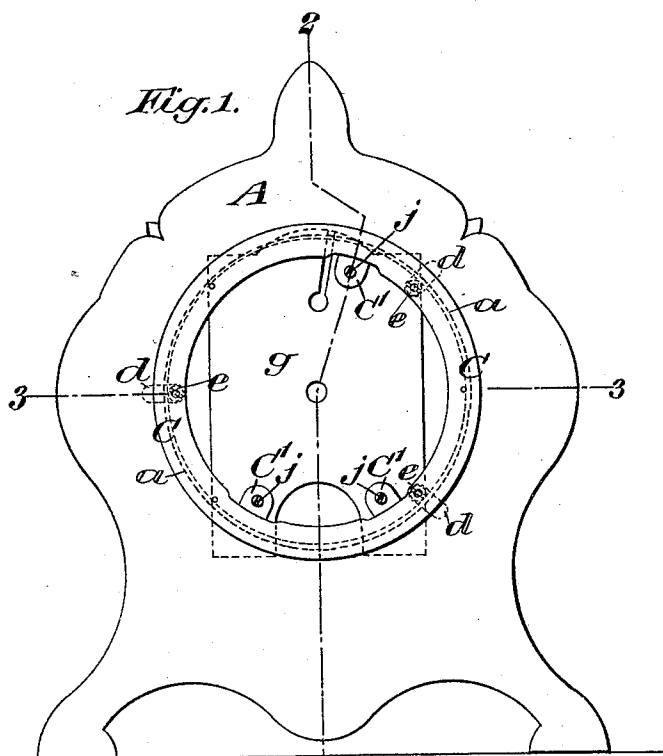


(No Model.)

W. D. DAVIES.
CLOCK CASE.

No. 544,028.

Patented Aug. 6, 1895.



Witnesses:-
George Barry.
R. J. Luard.

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By attorneys*

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UNITED STATES PATENT OFFICE.

WALTER D. DAVIES, OF BROOKLYN, ASSIGNOR TO THE ANSONIA CLOCK COMPANY, OF NEW YORK, N. Y.

CLOCK-CASE.

SPECIFICATION forming part of Letters Patent No. 544,028, dated August 6, 1895.

Application filed April 30, 1895. Serial No. 547,609. (No model.)

To all whom it may concern:

Be it known that I, WALTER D. DAVIES, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Means for Attaching Clock Movements and Dials to Their Cases, of which the following is a specification.

This invention has more especially for its object to provide for the attachment of clock movements and dials to cases of porcelain, which from its nature does not admit of the direct attachment of the movement or dial to it by screws or such fastenings as are employed in cases of metal or wood.

I will first describe the improvement in detail, with reference to the accompanying drawings, and afterward point out its novelty in claims.

Figure 1 represents a front view of a clock-case with the dial omitted, but showing the ring through which the movement and the dial are attached to the case and which constitutes the principal feature of my invention.

Fig. 2 represents a vertical section taken through the case from back to front in the line 2 2 of Fig. 1 and showing both the attachment of the movement and of the dial and sash. Fig. 3 represents a horizontal section in the line 3 3 of Fig. 1. Fig. 4 is a back view of the ring hereinabove mentioned. Fig. 5 represents an axial section of said ring in the line 5 5 of Fig. 4.

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

A is the case, which may be made of one piece and which has in its front an opening *a* of a size somewhat smaller than the dial B, the said opening being for the reception of the metal ring C, which serves for the attachment of the movement and the dial. An opening *b* is also represented in the back of the case, but this latter opening is immaterial to my invention.

The ring C, which may be of cast metal and is stout enough to be tapped for the reception of screws, has its back portion *c*, which enters the opening *a* of the case, of an external circumference somewhat smaller than the said opening in order that it may be to some extent adjustable therein vertically or laterally, and the said ring has in front an externally-

surrounding flange *c'* to lie against the front of the case around the front or margin of the said opening *a*. On the back of the said ring there are brackets *C'*, of which there are three represented, which are set inward or backward, as shown in Figs. 2, 3, and 5, far enough to enter a little way within the interior of the case. These brackets project, as shown in Figs. 1 and 4, within the inner circumference of the said ring. Their purpose is to attach the movement to the ring. There are also on the back of the said ring projections *c''*, of which three are represented, the thickness or depth of which is sufficient to bring them flush or nearly so with the interior of the case, as will be understood by reference to *c''* in Figs. 2 and 3.

The ring C is attached to the case at the margin of the opening *a* therein by means of small flat clamping-buttons *d*, which are attached to the projections *c''* on the back of the ring by means of screws *e* screwing into the ring, the said clamping-buttons being long enough to project beyond the margin of the opening *a* and opposite to or beyond the flange *c'* for the purpose of clamping the ring to the case A at as many points as may be desired around the margin of the opening *a*. In order to prevent injury to the material of which the case is composed, I prefer to place between these clamping-buttons and the case small thin pieces *f* of wood or other yielding material. The ring may then by screwing up the screws *e* be so tightly clamped to the case as to be capable of sustaining and supporting the movement securely within the case by the simple attachment of the movement to the said ring. The movement, of which I have only represented the frame, consisting of front and back plates *g* *h* and posts *i*, is attached to the inwardly-projecting brackets *C'* of the ring by screws *j*, which are inserted through the said brackets and screw into tapped holes in the plate *g*. The dial B is attached to that portion of the ring C which projects beyond the front of the case A by means of screws *k*, as many as may be necessary, passing through holes in the dial and screwing into tapped holes in the said ring. The dial is represented as provided with a sash *l* in the common way. It will be observed that the metal ring C is

clamped around the opening in the case without making holes in the case or providing notches around the said opening, otherwise running the risk of injuring the porcelain or
5 other fragile material of which the case may be composed, and that the said ring has the dial and the movement-frame each attached to it independently of the other and independently of the case and makes a very solid
10 attachment of the movement to the case.

What I claim as my invention is—

1. The combination of a clock case having an opening in its front, a metal ring inserted within said opening and having an external
15 flange overlapping the margin thereof, clamping buttons applied behind said ring and projecting within the case beyond the margin of said opening, screws for attaching said buttons to the back of said ring, a dial in front

of said ring and screws for attaching the dial 20 to said ring independently of the case, substantially as herein set forth.

2. The combination of a clock case having in it an opening, a frame for a clock movement, a ring having an external front flange 25 overlapping the margin of said opening and having provided on its back or inner face brackets which project through said opening into the case, clamping devices for clamping said ring to the case, and screws for attaching 30 said frame to the said brackets independently of the attachment of the ring to the case, substantially as herein described.

WALTER D. DAVIES.

Witnesses:

HERBERT C. SMITH,
ANNIE C. HAAR.