

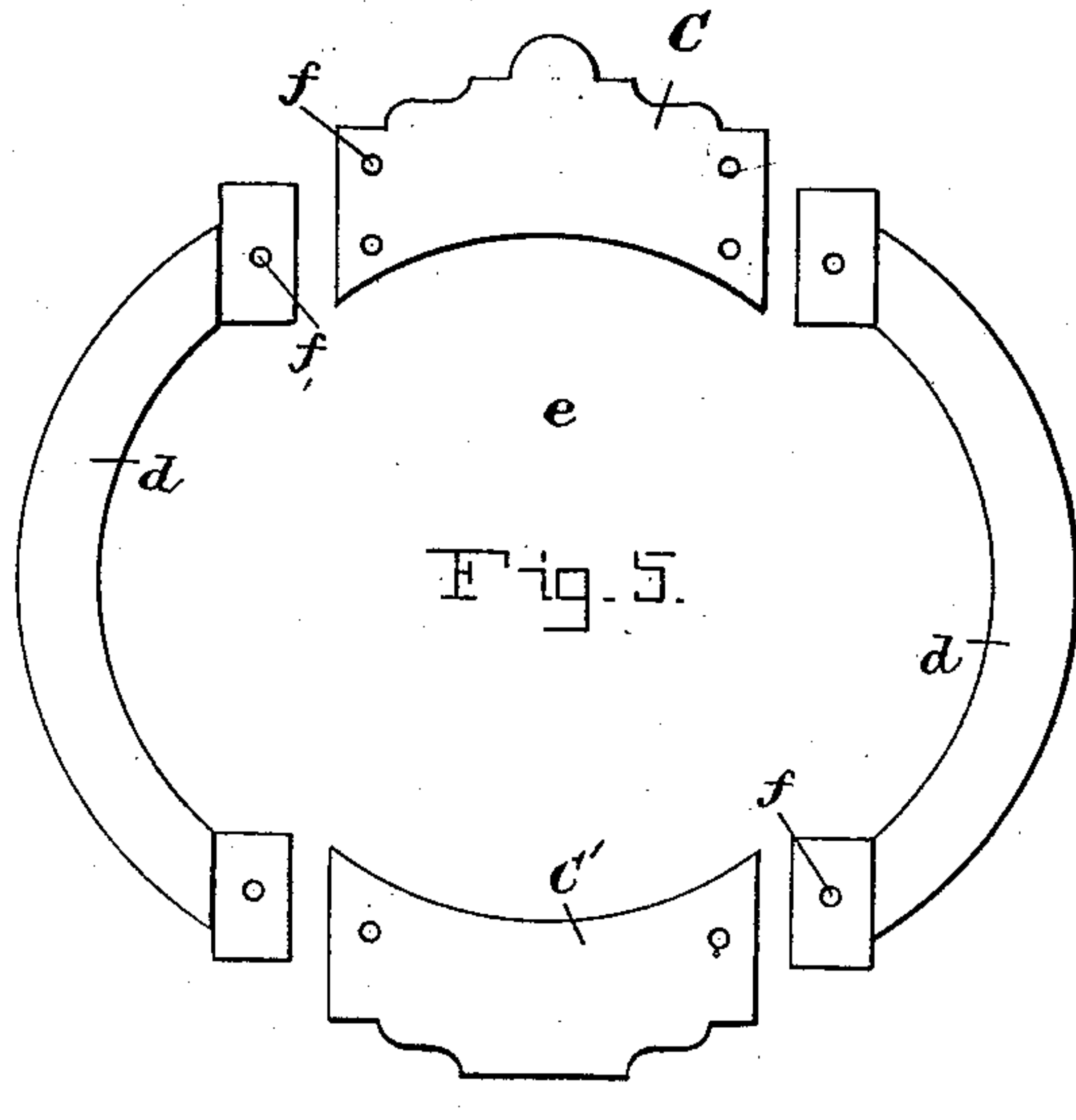
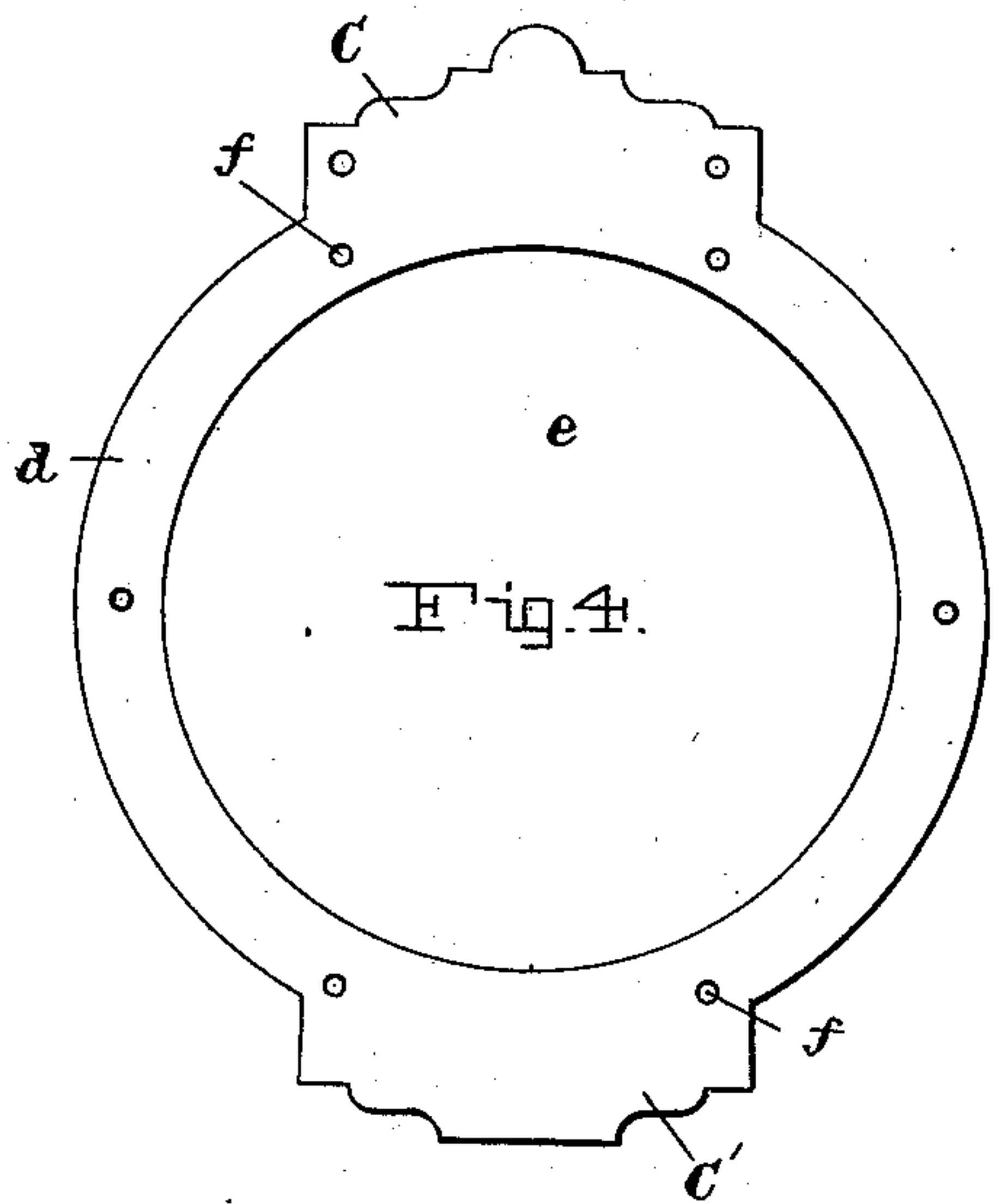
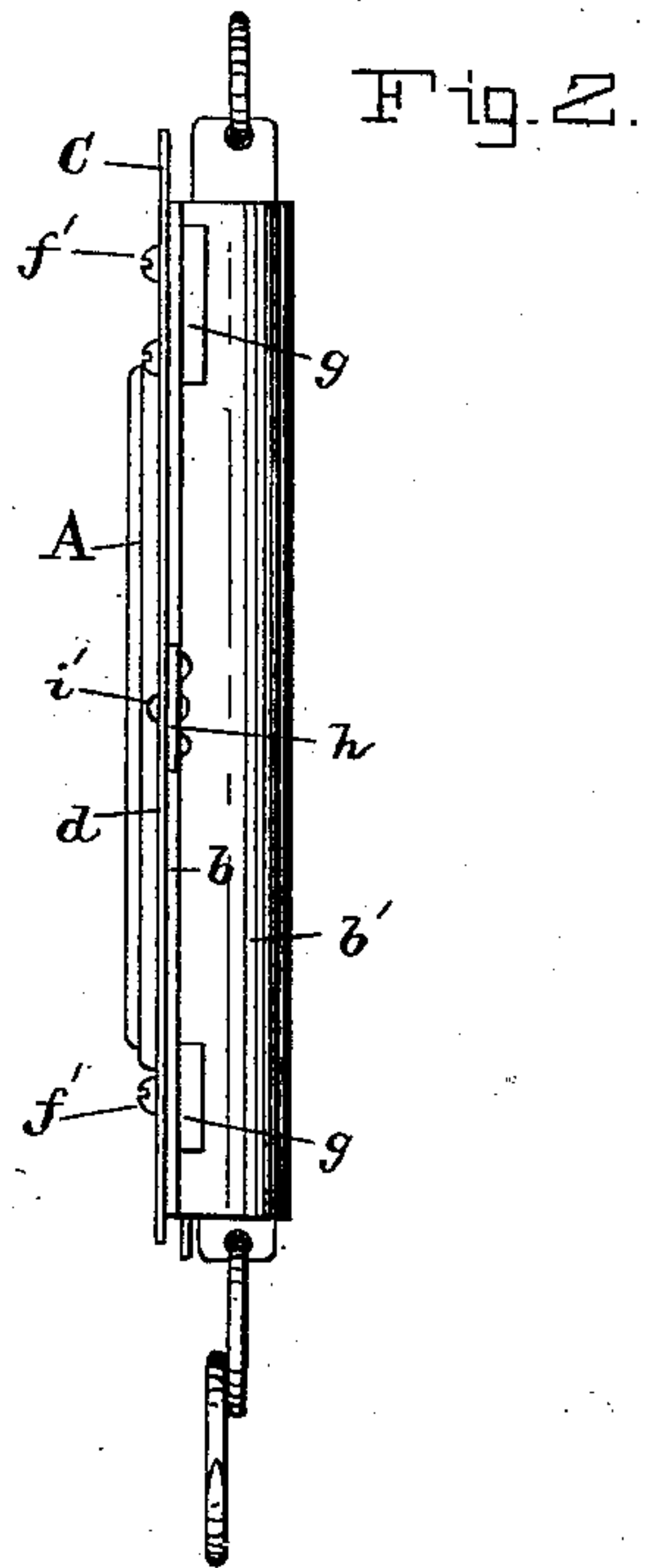
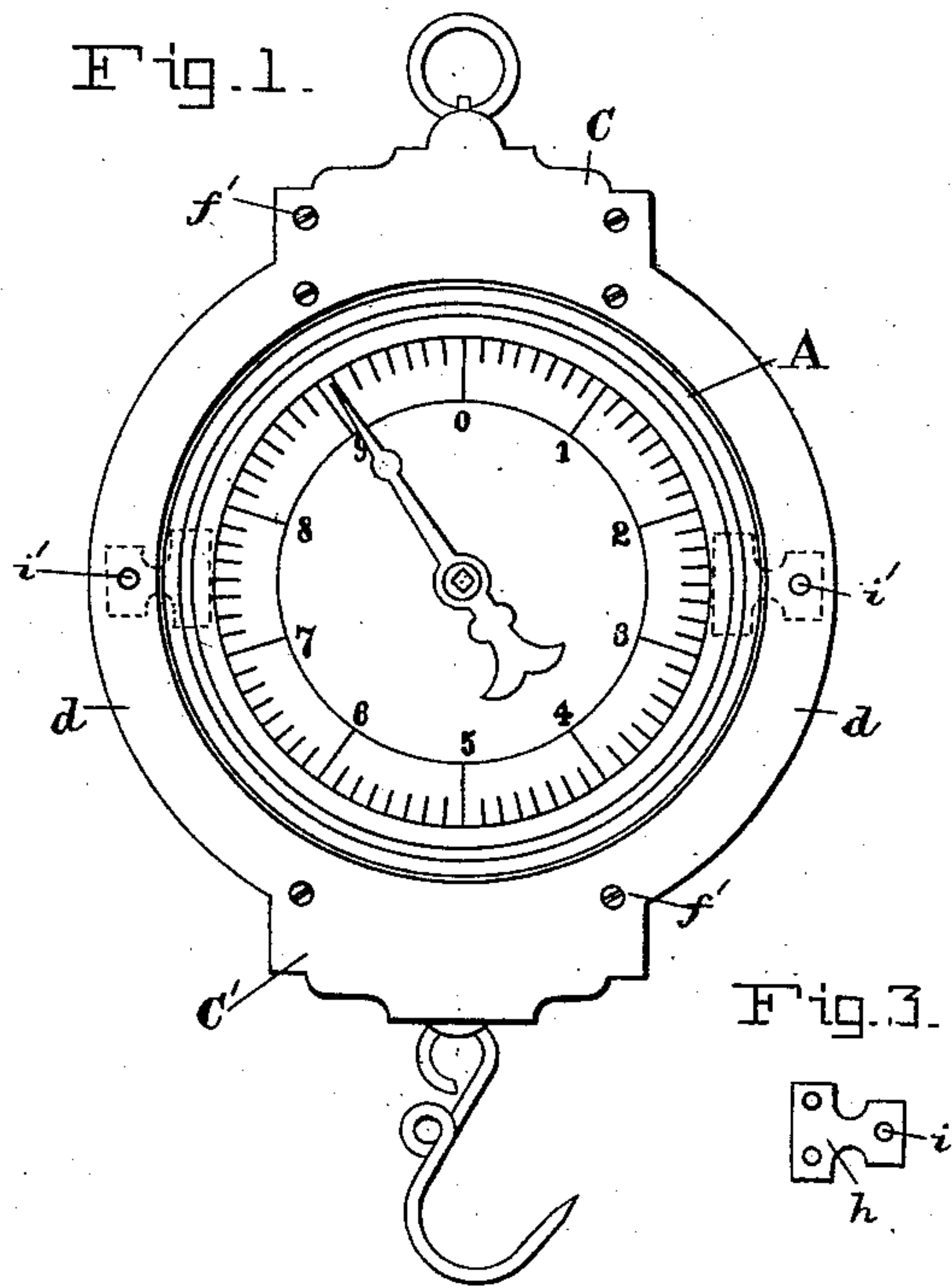
(No Model.)

C. R. MAGUIRE.

SPRING BALANCE SCALE.

No. 366,491.

Patented July 12, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES R. MAGUIRE, OF BALTIMORE, MARYLAND.

SPRING-BALANCE SCALE.

SPECIFICATION forming part of Letters Patent No. 366,491, dated July 12, 1887.

Application filed November 23, 1886. Serial No. 219,657. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. MAGUIRE, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Spring-Balance Scales, of which the following is a specification.

This invention relates to the improvement in the case-fronts of spring-balances, and is illustrated in the accompanying drawings, in which—

Figure 1 is a front view of a spring-scale embodying my improvement. Fig. 2 is a side view of same. Fig. 3 is a view of the side supporting arm. Fig. 4 is a view of the detachable front plate, showing the same in one piece. Fig. 5 is a view of the front plate, showing it made in four pieces.

The object of this invention is to provide an ornamental front plate to entirely surround the dial-case of spring-balance scales. These front plates may be made of any suitable material, and are to be plated or otherwise ornamented, and are so constructed and applied to the scale-cases that they may be attached to an old scale as well as a new one, and when, by use or wear of the scale, the plates become marred or disfigured, they may be removed for replating or reornamentation without in the meantime disabling the scale—that is, without unfitting the scale for use while the said plates are off.

The usual scale parts need not be described.

The dial-case A and the two flanges *b* of the spring-case *b'* are of ordinary construction. The improved detachable front plate is annular or ring-shaped, and entirely surrounds the dial-case A. This plate has two irregular-shaped parts, C C', which are diametrically opposite each other, and two plain semicircular parts, *d*, which connect with the said two irregular-shaped parts. The four parts comprise the annular plate, having a round central opening, *e*, for the dial-case, around which it fits. The plate has holes *f* for the entrance of screws *f'*, whereby it is attached to the two flanges *b* of the case.

To render the attachment secure and durable, a short bar, *g*, is placed at the back in contact with the flanges *b*, and the screws *f'* are passed through the ornamental plate, the flange, and into the said short bar *g*. A side supporting arm, *h*, is secured at the back by rivets to the dial-plate or to the flange *b*, and this arm has a hole, *i*. A screw, *i'*, through the semicircular part *d* enters the said hole, and thereby stays the said part.

This ornamental front plate may be made in one piece, as shown in Fig. 4, or in four pieces, as shown in Fig. 5, to be united. This kind of a plate may be used on scales having a single dial or a double dial.

In some instances a scale may have an ornamental detachable front plate, as described, with but one irregularly-shaped part.

I am aware that it is not new to provide a spring-balance scale with a removable segmental front plate, such being shown in a former patent granted to me, and bearing Serial No. 338,535, and of date March 23, 1886; but in the invention herein is shown a front plate of a different construction, and secured in a manner that the same may be readily detached from the device without a separation of the working parts and indicating parts.

Having described my invention, I claim and desire to secure by Letters Patent of the United States—

In a spring-balance scale, the combination of the dial-case, having flanges *b b*, with a detachable front plate having parts C C', semicircular side parts, *d d*, and opening *e*, as shown, the bars *g*, and the side supporting arms, *h*, having openings *i*, the said front plate being secured to the said flanges *b*, all substantially as described.

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

CHARLES R. MAGUIRE.

Witnesses:

JOHN E. MORRIS,
JNO. T. MADDOX.