No. 753,080. PATENTED FEB. 23, 1904.

D. DE LANCEY & H. M. SMITH.

METER SEAL.

APPLICATION FILED OCT. 21, 1903.

NO MODEL.

Fig. 1.

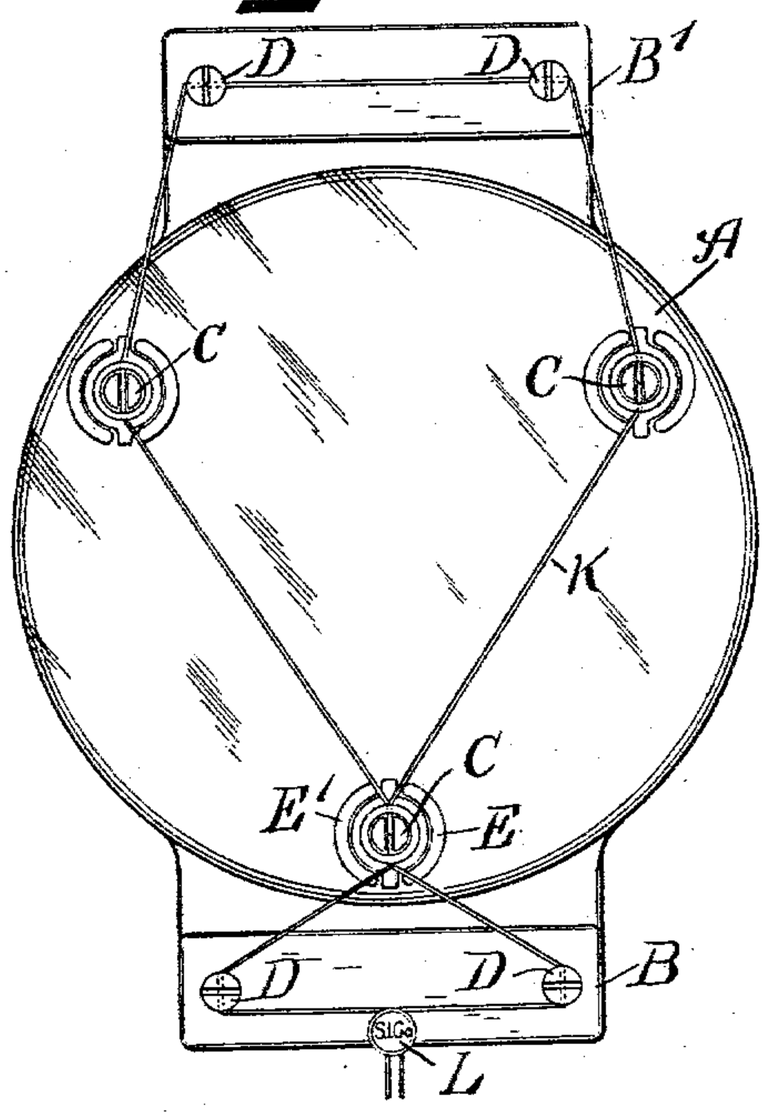



Fig. 2.

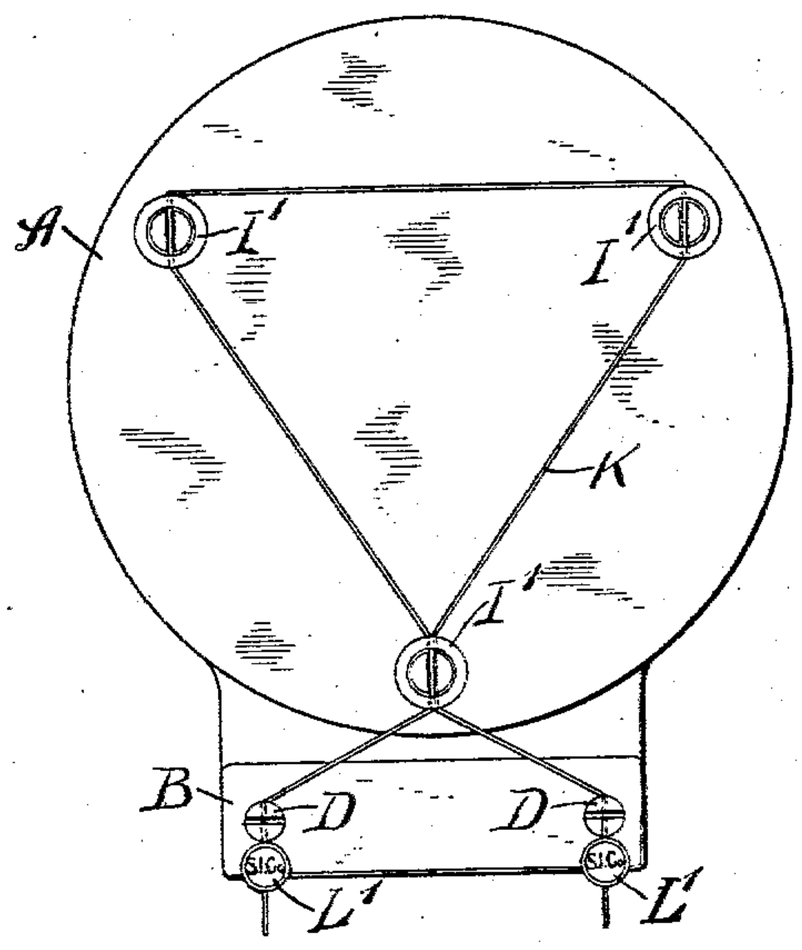
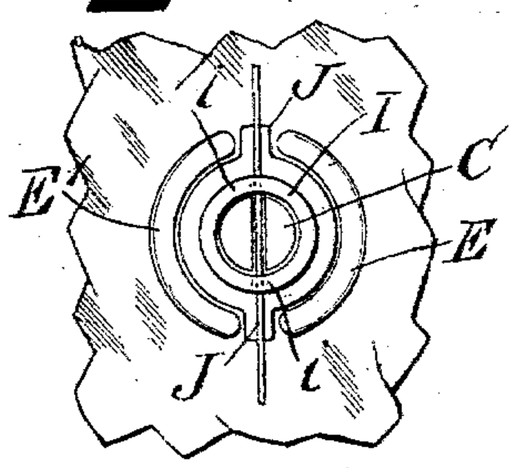



Fig. 3.



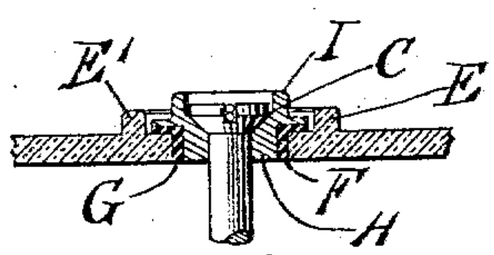
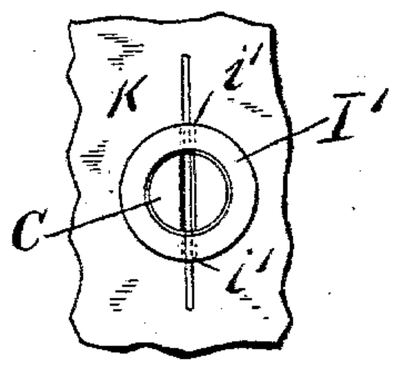




Fig. 3.a.

Fig. 4.



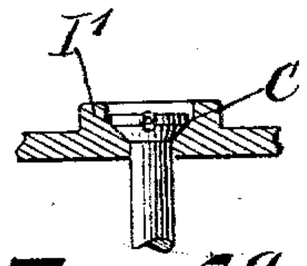
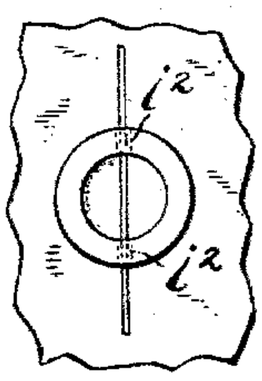




Fig. 4.a.

Fig. 5.



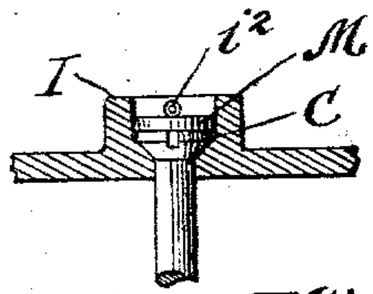
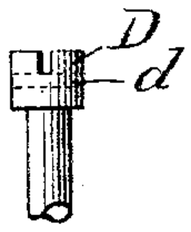




Fig. 5.a.

Fig. 6.




Witnesses
Geo. Y. Rasmussen
A. L. Gillespie

Inventors
Darragh de Lancey.
Herbert M. Smith
By their Attorney
R. Cruickshank

No. 753,080. Patented February 23, 1904.

# UNITED STATES PATENT OFFICE.

DARRAGH DE LANCEY AND HERBERT M. SMITH, OF GREAT BARRINGTON, MASSACHUSETTS, ASSIGNORS TO THE STANLEY INSTRUMENT COMPANY, OF GREAT BARRINGTON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

## METER-SEAL.

SPECIFICATION forming part of Letters Patent No. 753,080, dated February 23, 1904.

Application filed October 21, 1903. Serial No. 177,882. (No model.)

*To all whom it may concern:*

Be it known that we, DARRAGH DE LANCEY and HERBERT M. SMITH, citizens of the United States, residing at Great Barrington, Berkshire county, Massachusetts, have invented certain new and useful Improvements in Meter-Seals, of which the following is a full, clear, and exact description.

Our invention relates to meter-seals, and has for its object to provide a means for sealing a plurality of screws or fastening devices in the meter-case by means of a single securing device.

The following is a description of our invention, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation of a meter-case having its fasteners sealed by a securing device embodying our invention. Fig. 2 is a modification of the same. Figs. 3 and 3ª are respectively plan and sectional views of one of the meter-fasteners of Fig. 1 secured by our improved means. Figs. 4 and 4ª are plan and sectional views of one of the fastening devices of Fig. 2 secured by our improved means. Figs. 5 and 5ª are plan and sectional views of a modification of what is shown in Figs. 4 and 4ª. Fig. 6 is a side elevation of one of the forms of screw used in securing parts of the meter-case.

Referring more particularly to the drawings, A represents a round cover of a meter-case.

B B′ represent the covers of terminal boxes on the meter-case.

C C C represent the screws for holding the cover A in position.

D D represent screws for holding the covers of the terminal boxes in position.

In the form of device shown in Figs. 1, 3, and 3ª the cover A consists of a main portion provided with semicircular projections E E′, surrounding holes F and having rubber gaskets G fitting within each hole, and metal inserts H, each provided with a circular projection I and fitting within the gaskets G. Each insert H has radial projections J J, which fit into the recess between the ends of the semicircular projections E E′. The retaining-screws C pass through central openings in the inserts H and engage with convenient portions inside the case. The circular projection I is provided with diametrically opposite holes *i*, which are in line with the radial projections J J and when any one of the screws C is in the proper position are also in line with the slot in its head. The screws D, which secure the plates B B′, are provided with holes *d*, preferably at right angles to the slots in their heads. When the screws C and D have been screwed in place, the wire K is threaded through the holes *d* of each of the screws D and the holes *i* of each boss I, being passed in a reverse direction a second time through the holes of the lower boss I, as shown in Figs. 1 and 2. The ends of the wire K are then secured so that they cannot be withdrawn, this being done, preferably, by a single lead seal L, stamped with some identifying mark. This construction is specially useful when the main portion of the cover A is made of glass or other non-metallic material.

When the main part of the cover A is made of metal, the holes can have circular bosses I′ formed directly about them either by casting or stamping, as shown in Figs. 2, 4, and 4ª, each boss being provided with holes *i i*, through which the wire K may be threaded so as to pass through the slot in the screw C. The ends of the wire K may also be secured by separate seals L′ L′, as shown in Fig. 2.

In Fig. 5 the construction is similar to that in Figs. 2, 4, and 4ª, with the exception that above the screw C a lead washer or seal M is placed, the circular projection I² being made correspondingly higher than that of I′, so as to permit the holes *i*² to be above the seal M.

The means described above provide a very simple and efficient manner of securing the screws of a meter-case and, as will be seen, are adapted for use with both glass and metal parts, the projections of the cover through which the wire is passed in the former case being on a metallic insert. The sealing can

be done by a single wire and by a single lead seal, if desired, and the means employed makes it impossible for the screw to be turned without breaking the wire.

We claim—

1. In a meter the combination of a cover, a plurality of fastening-screws therefor, and a single wire engaging with the heads of said screws and preventing the turning of any one of the said screws and means for securing the ends of said wire.

2. In a meter the combination of a meter-cover, screws for securing the same, projections on said meter-cover adjacent to said screws, holes in said projections and a wire passing through said projections and engaging with the heads of said screws and having its ends secured.

3. In a meter the combination of a cover, screws for securing said cover, the heads of the screws embraced by projections upon said meter-case, a single wire passing through holes in said projections and also through the slots of said screws and means for securing the ends of said wire.

4. In a meter the combination of a cover, screws for securing said cover, said screws being provided with passages in their heads and a single wire passing through the said passages in a plurality of said screws and means for securing the ends of said wire.

5. In a meter the combination of a cover consisting of a fragile non-metallic portion having a plurality of holes therein, projections formed in said non-metallic cover about said holes and inserts inserted in said holes and prevented from turning by said projections, said inserts having projections, screws passed through said inserts and secured to said meter-case and a wire passing through holes in the projections on said inserts and means for securing the ends of said wire.

6. In a meter in combination a plurality of covers, a plurality of screws for fastening said covers and having passages in their heads and a wire extending through said passages for securing said screws and means for securing the end of said wire.

Signed at Great Barrington, Massachusetts, this 19th day of October, 1903.

DARRAGH DE LANCEY.
HERBERT M. SMITH.

Witnesses:
JOHN J. WELSH,
GEORGE T. FRENCH.