

No. 792,713.

PATENTED JUNE 20, 1905.

D. DE LANCEY & H. M. SMITH.

METER BEARING.

APPLICATION FILED OCT. 21, 1903.

Fig. 1.

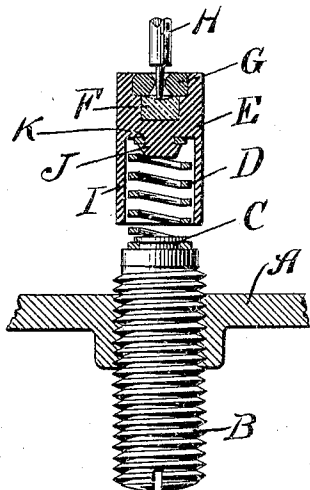


Fig. 2.

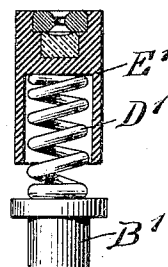


Fig. 3.

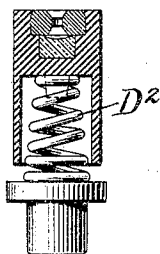
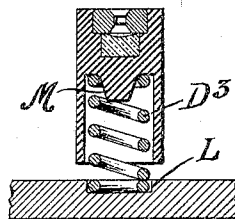


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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

METER-BEARING.

SPECIFICATION forming part of Letters Patent No. 792,713, dated June 20, 1905.

Application filed October 21, 1903. Serial No. 177,881.

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-Bearings, of which the following is a full, clear, and exact description.

Our invention relates to meter-bearings, and has for its object to provide a spring-support for jewels or other bearing-surfaces which shall be simple and efficient in construction and use.

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

Figure 1 is a view, partly in section and partly in elevation, of one form of bearing embodying our invention. Figs. 2, 3, and 4 are modifications of the same.

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

B represents a supporting and adjusting screw having at its upper end an undercut projection C.

D is a spring having its lower end caught under the flange of the projection C.

E is a block forming a carrier for the jewel or other bearing F.

G is a bushing held in place by the edge of the carrier E, which is slightly spun over.

H is the lower end of a meter-shaft, a pin from which passes through the bushing G and bears upon the bearing-surface F.

I is a depending petticoat attached to the carrier E and surrounding the spring D. The carrier E has a projection J, which has an undercut groove K, in which the upper end of the spring D is snapped. The spring D is preferably substantially rectangular in section, so as to provide greater lateral rigidity. The petticoat extending along the convolutions of the spring also acts to counteract any tendency of the carrier to tip, confining it practically to the lower convolution of the spring.

The spring may be made of other forms

than as shown in Fig. 1 and may be secured at its ends by other means. Thus in Fig. 2 we have shown a helical spring D' whose ends are soldered to the carrier E' and support B', respectively, the support in this case being a block which can be inserted and removed from the corresponding recess in the meter-casing. The spring may also be made conical, as shown at D² in Fig. 3, and may have its lower end soldered to the supporting-block and its upper ends simply bearing against a flat surface on the carrier. It is also possible to have both ends of the spring simply rest against flat surfaces, as shown at D³ in Fig. 4, in which the lower end fits in a recess L in the meter-casing, while the upper end surrounds a boss M on the bearing-carrier.

In both of the constructions shown in Figs. 3 and 4 the meter-shaft should always keep the spring somewhat compressed, so as to prevent displacement of the parts which are not secured together.

The constructions shown provide a simple and efficient means for spring-supporting the lower end of the meter-shaft and yet provide all the rigidity necessary.

What we claim is—

1. In a meter-bearing, the combination of a support, a helical spring having its lower end secured to said support, an end-thrust bearing member secured to the upper end of said spring, and a vertical shaft having its end resting on said bearing member, said spring restraining said bearing from lateral movement.

2. In a meter-bearing, the combination of a support, a helical spring having its lower end secured to said support, an end-thrust bearing member secured to the upper end of said spring, and a vertical shaft having its end resting on said bearing member, said spring restraining said bearing from lateral movement, said bearing member having a depending petticoat covering part of said spring and leaving part of said spring exposed.

3. In a meter-bearing, the combination of a support, a helical spring of rectangular cross-

section so as to increase its resistance to bending laterally said helical spring having its lower end secured to said support, a carrier secured to the upper end of said spring, and
5 having a depending petticoat surrounding the upper part of said spring, and leaving the lower part exposed, said petticoat protecting said spring and reinforcing it.

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

DARRAGH DE LANCEY.
HERBERT M. SMITH.

Witnesses:

JOHN J. WELCH,
GEORGE T. FRENCH.