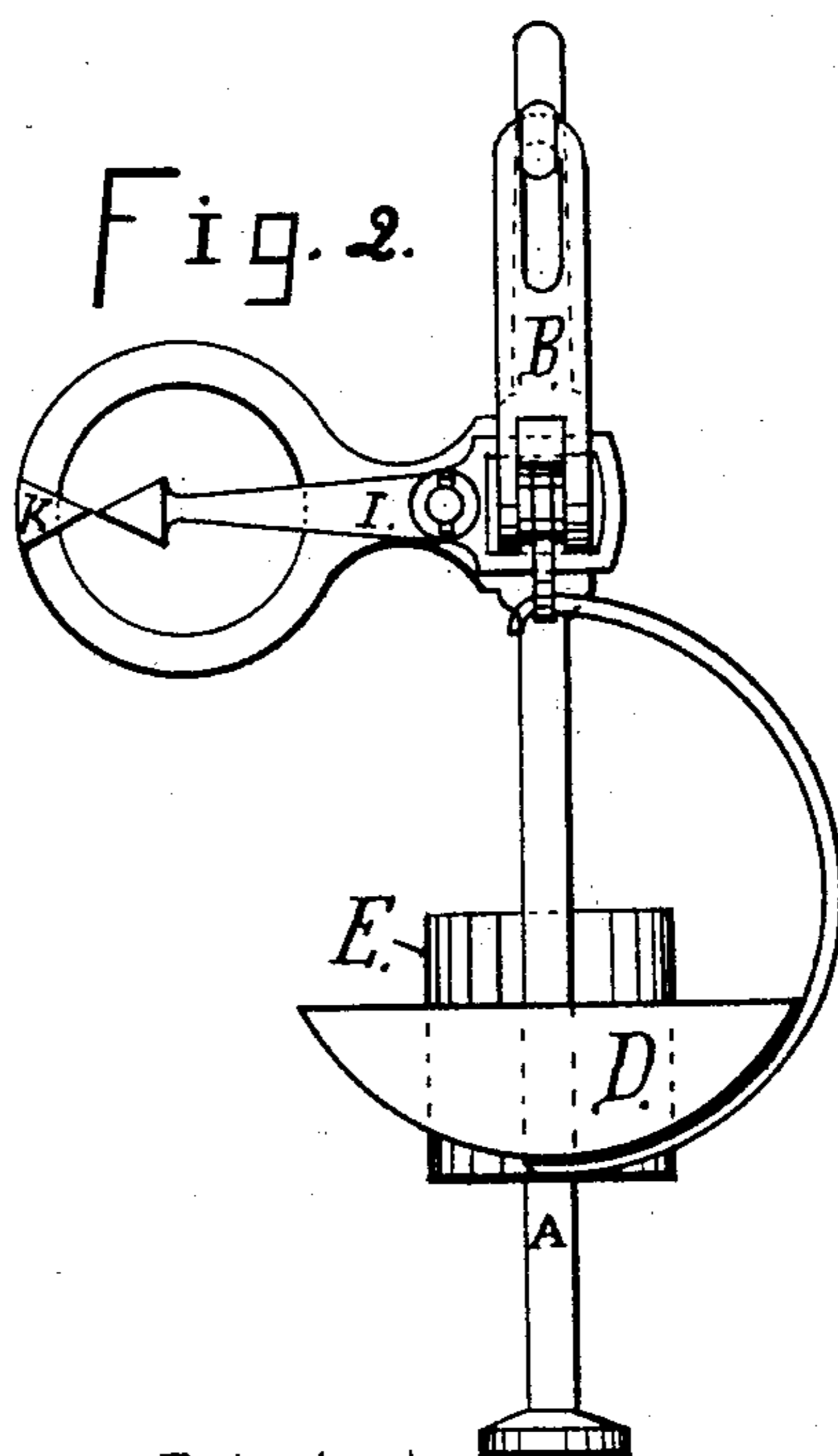
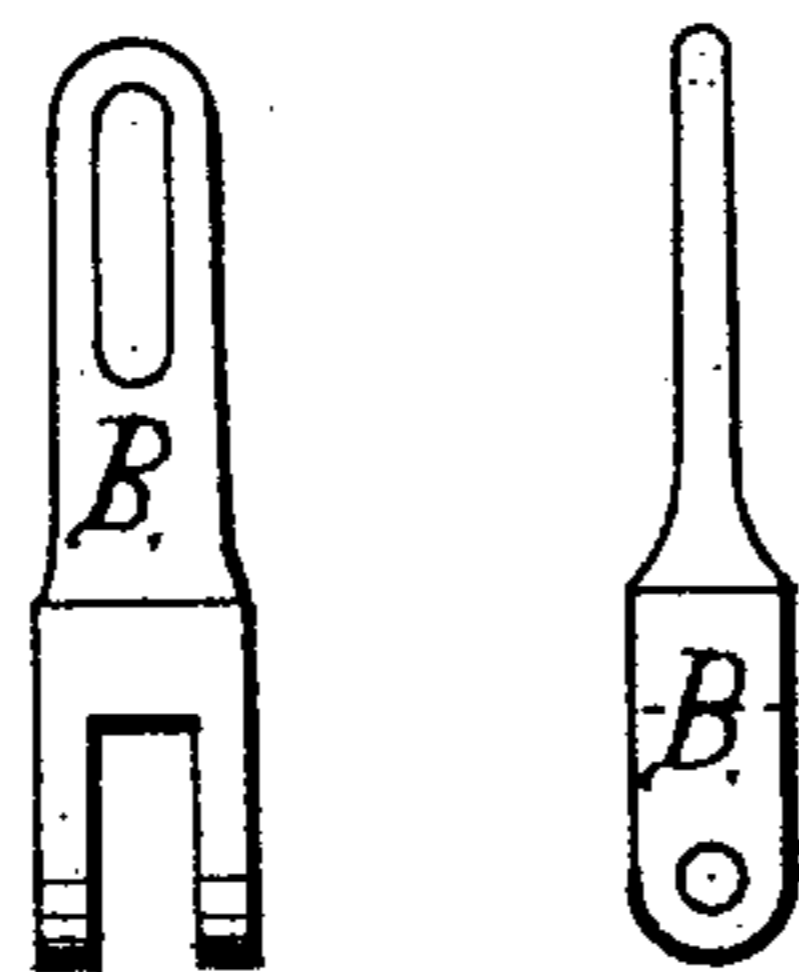
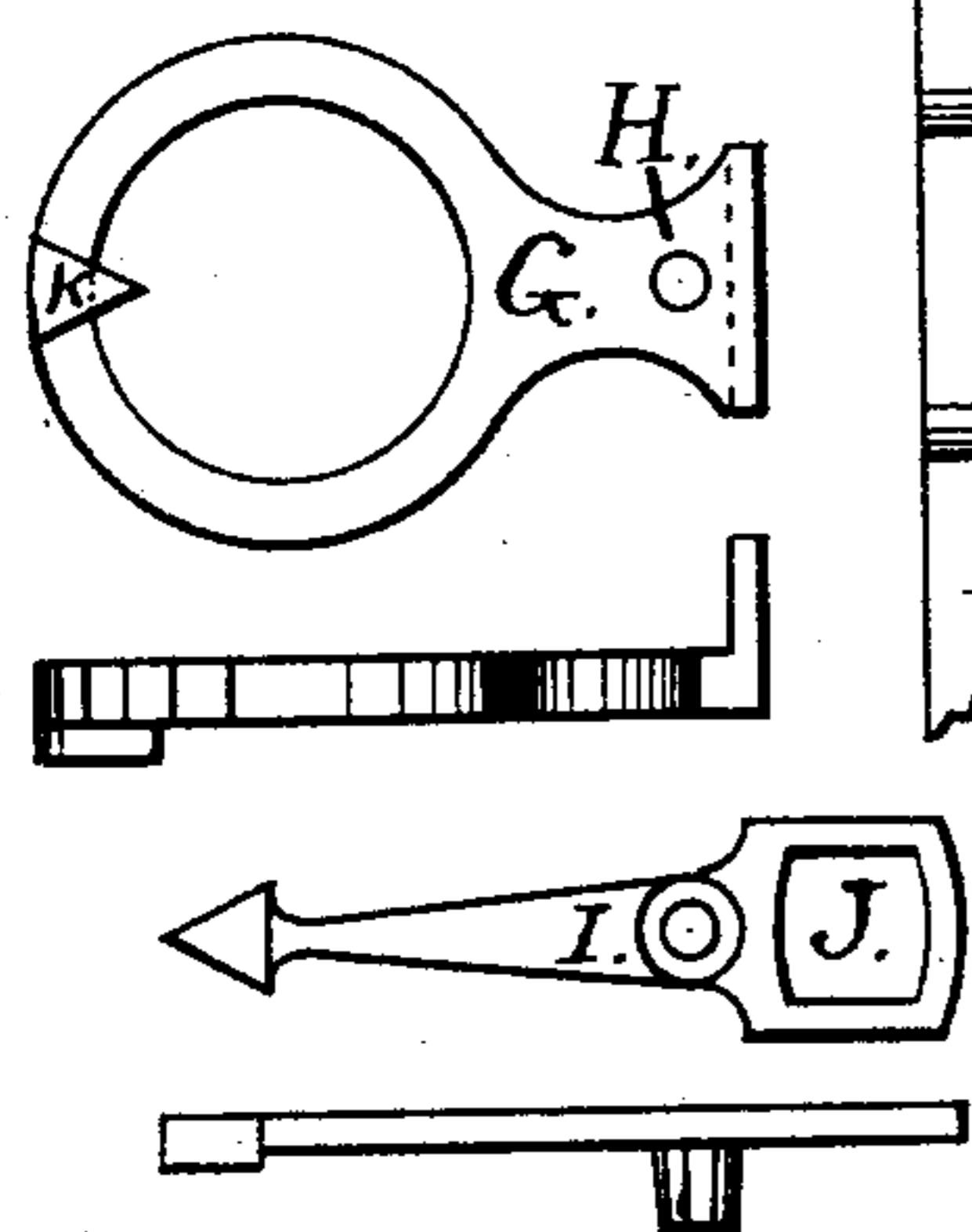
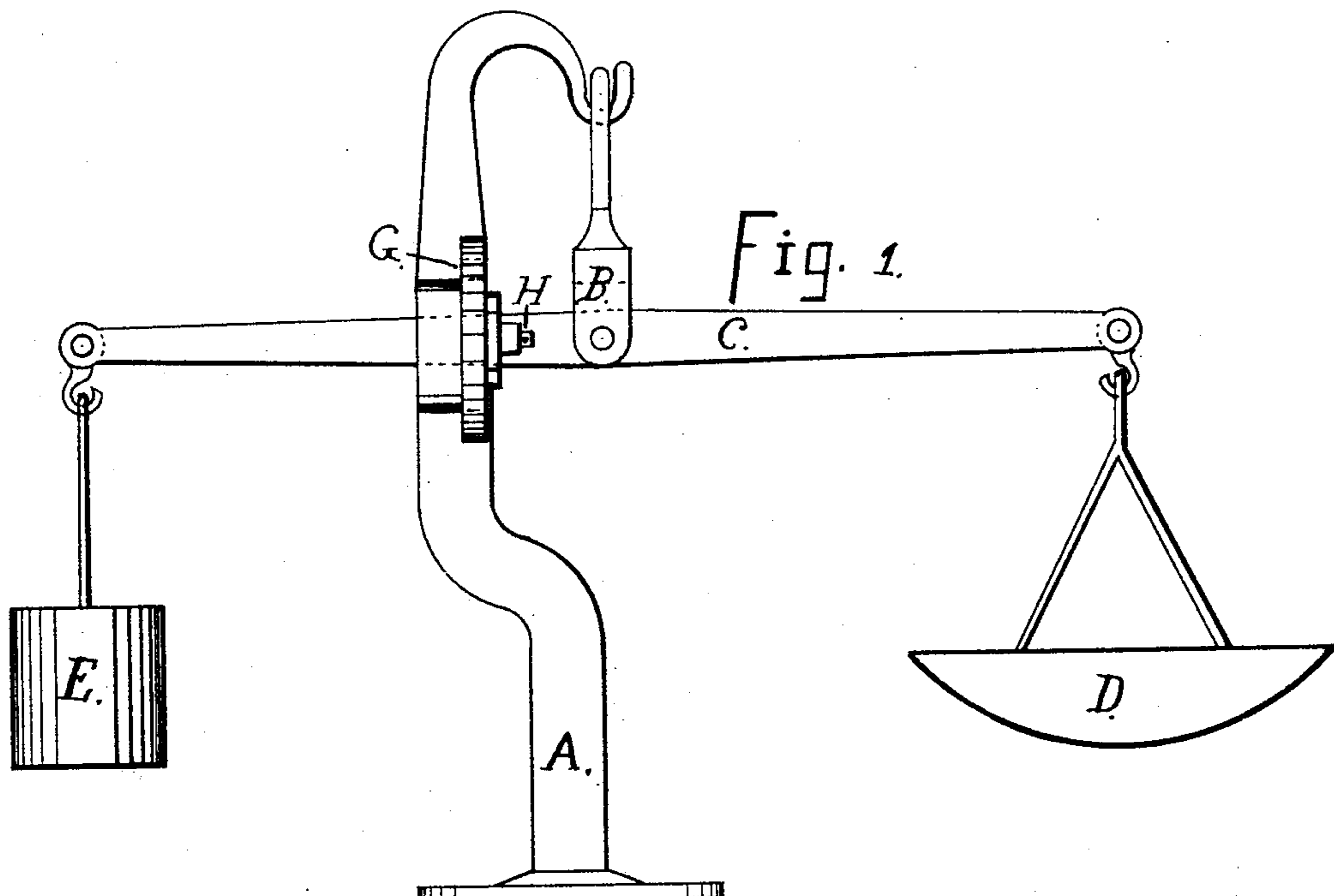


J. CONWAY.
Scale-Beam.

No. 223,217.

Patented Jan. 6, 1880.



WITNESSES.
John H. ...
to Holcroft

INVENTOR.
John Conway

UNITED STATES PATENT OFFICE.

JOHN CONWAY, OF NETHER PROVIDENCE, PENNSYLVANIA.

SCALE-BEAM.

SPECIFICATION forming part of Letters Patent No. 223,217, dated January 6, 1880.

Application filed October 20, 1879.

To all whom it may concern :

Be it known that I, JOHN CONWAY, of Nether Providence, Delaware county, and State of Pennsylvania, have invented a new and useful Improvement in Beam-Scale Balance-Indicators, of which the following is a specification.

The invention relates to indicators for beam-scales that are principally used in woolen and cotton factories in weighting the wool or cotton previous to its being spread on the feed-apron of a spreader or card to produce evenness of lap and yarn.

The object of my improvement is to provide the scale with a balance-pointer having a range of movement that will be sensitive and indicate the least variation of quantities and weight.

The invention consists in the combination and arrangement of an independent indicator or pointer with the supporting-post and scale-beam, as will be hereinafter described, referring to the annexed drawings, in which—

Figure 1 is a side view of a factory beam-scale with my improvement. Fig. 2 is an end view of the same.

The other figures are separate parts, and are indicated by letters.

Similar letters of reference in the drawings indicate like parts.

A is the supporting-post, and is provided with a hook at top, in which is hung the stirrup B. C is the scale-beam; D, the tray for the wool or cotton; E, the weight. These parts are made of metal, and are constructed as is usual for factory-scales.

The post A is constructed with a slot, F, through which slot passes one end of the beam

C. This slot is made sufficiently large to allow the beam to rise and fall about one inch. To the post A, in a line central to the slot F, is fastened the stand G. On this stand is fastened a small stud, H. On this stud is fitted loosely the indicator or pointer I. This pointer is provided with a slot, J, which is made a little wider than the width of the beam at the place it acts, which may be from one to three inches from the center of the beam.

The stand G is provided with a fixed point, K, which point is on a level with the line or center of the beam when perfectly balanced, and the two points or indicators will range, as shown in the drawings, when the weight or load at the two ends of the beam are evenly balanced.

The pointer I may be made of such length as may be desired, but should be not less than five to one—that is, the point end should not be less than five times that of the slotted end, and in fact it may be made ten or fifteen times longer, as may be desired.

The invention is shown and described as adapted for factory purposes; but it is obvious that my improvement may be applied to beam-scales that are used for other purposes.

What I claim is—

The independent pointer I, made separate from the beam C, in combination with stand G, having a point, K, slotted post A, and beam C, as shown, described, and for the purpose specified.

JOHN CONWAY.

Witnesses:

H. HOLCROFT,
JOHN SHINN.