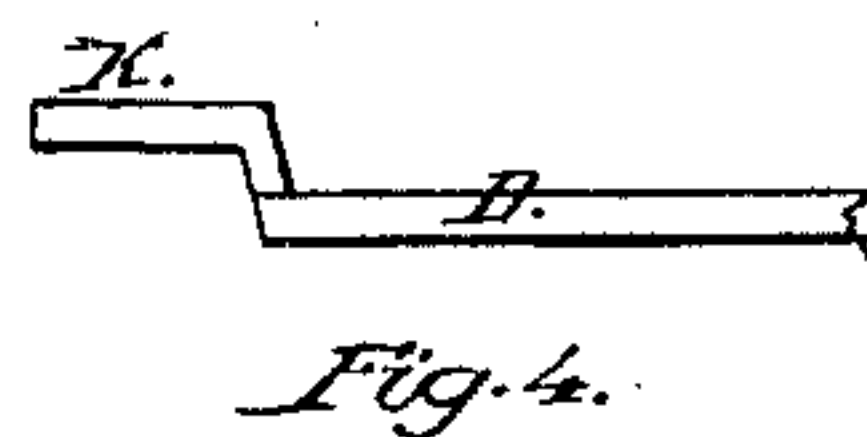
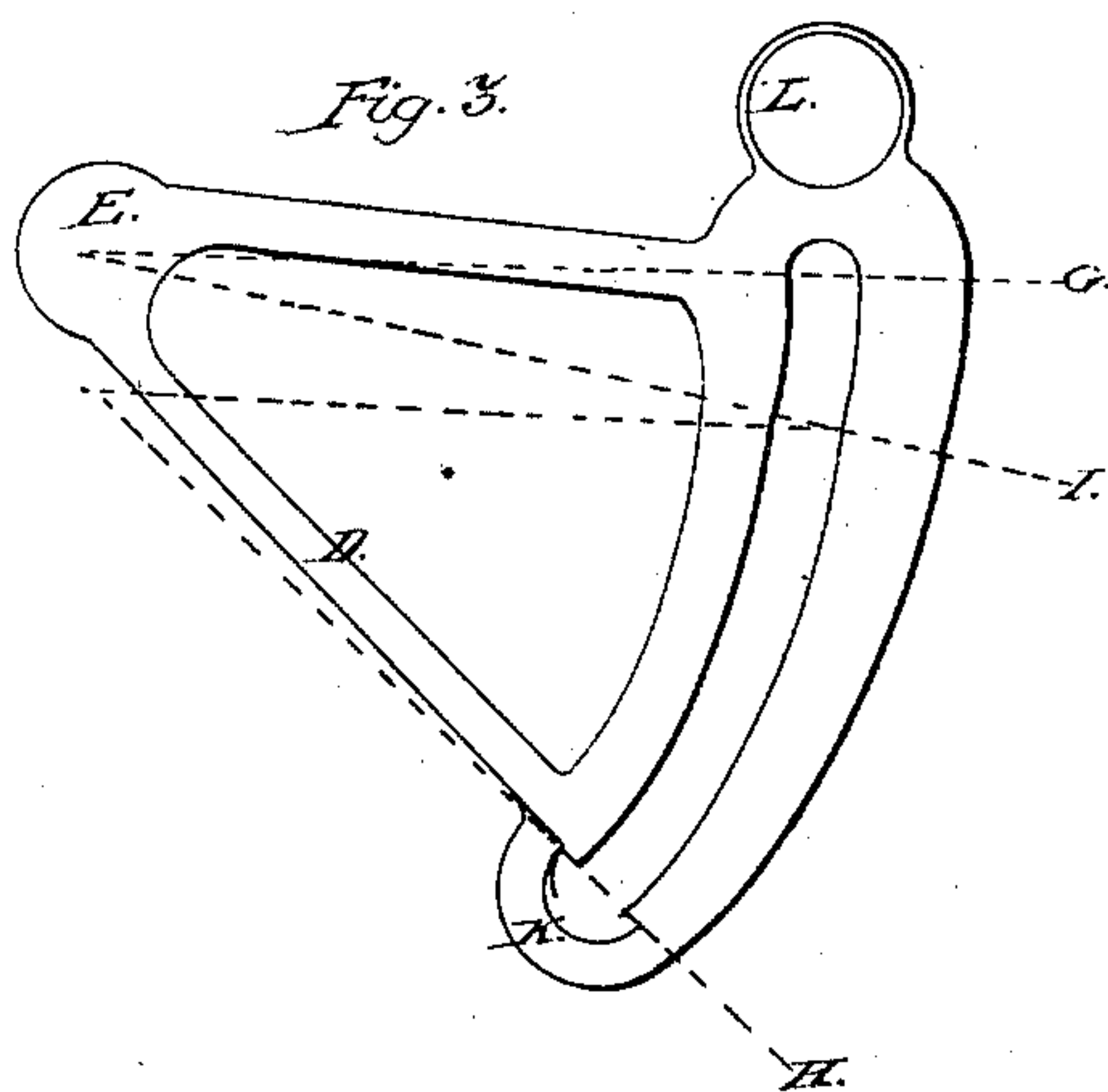
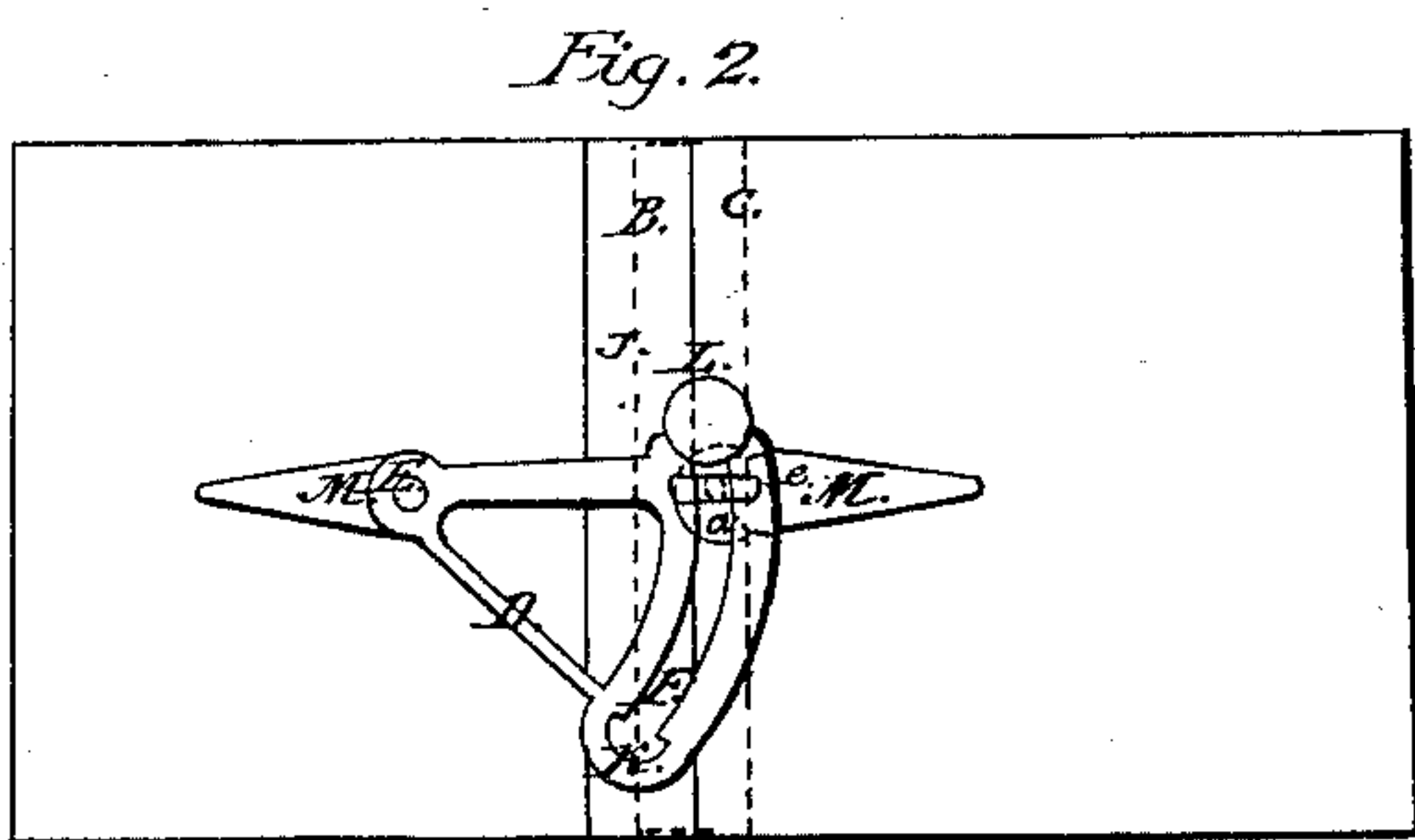
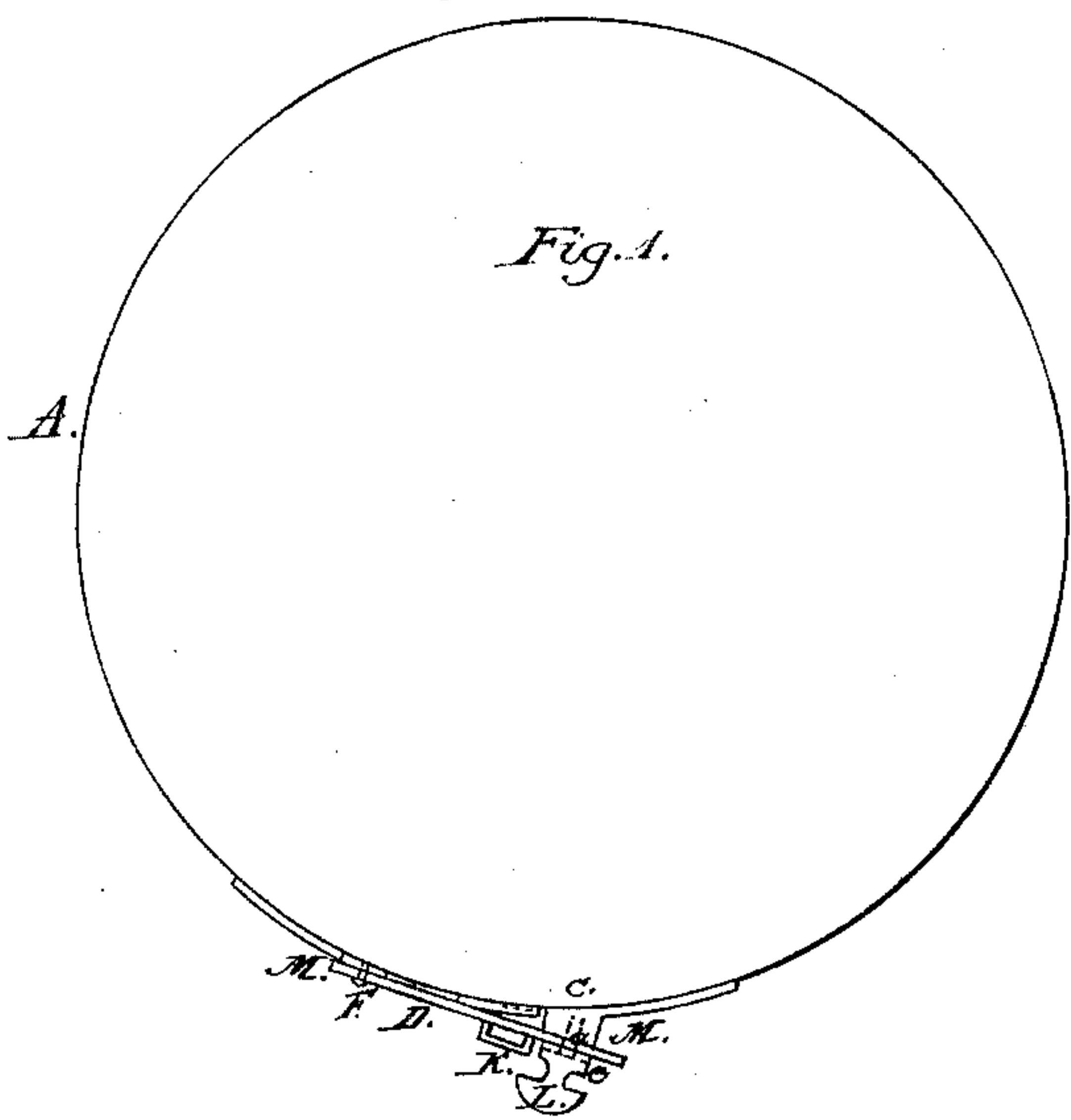


*C. F. S. Wardwell.*

*Cotton Bale Tie.*

*No. 17,536.*

*Patented June 9, 1857.*



*Witnesses:*  
*Daniel Estine*  
*John Aldrich Jr.*

*Inventor:*  
*C. F. S. Wardwell*

# UNITED STATES PATENT OFFICE.

C. P. S. WARDWELL, OF LAKE VILLAGE, NEW HAMPSHIRE.

## IMPROVEMENT IN CHEESE-HOOPS.

Specification forming part of Letters Patent No. 17,536, dated June 9, 1857.

*To all whom it may concern:*

Be it known that I, C. P. S. WARDWELL, of Lake Village, in the county of Belknap and State of New Hampshire, have invented a new and useful Improvement in Cheese-Hoops; and I hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing cheese-hoops that are constructed with an opening in one side, with a fastening that shall firmly close the hoop or force it open whenever desired during the process of pressing a cheese.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 is a top view view of a hoop. Fig. 2 is a front or side view. Fig. 3 is a view of of the hasp or fastener. Fig. 4 is an end view of the same showing the bridge across the slot or entrance thereto.

Similar letters of reference indicate corresponding parts of the several figures.

A is a hoop, made of any suitable material, and is divided at one side, the ends at the separation being allowed to lap a short distance past each other. Dotted lines *c*, Fig. 2, is the inside end, and B the outer end.

J is a strip of metal attached to the hoop near one end, forming a socket into which the other end of the hoop enters. This socket is formed by a piece of sheet metal the thickness of the hoop, being folded together, making two thicknesses about half its width, then bending the ends in the same direction to a right angle, so that both ends and the double edge shall be of a thickness, viz., double the thickness of the metal.

Dotted line B, Fig. 2, is the end of the hasp in the socket. This socket is to steady the ends of the hoops when brought together.

D is the hasp or fastening of peculiar construction. This hasp has a slot, F, which plays or slips round pin *a*, under button *e*, Fig. 2, (shown by circular dotted line,) the hasp being attached to the hoop at E by a pin, on which it swings. Slot F, Fig. 3, from H to I, is eccentric to draw together and force apart the ends of the hoop, or enlarge or diminish the diameter of the hoop, and from I to G the slot is concentric for the purpose of holding the hasp in place when closed, and

without which it would not stay in place during the process of pressing a cheese.

L is a knob by which the hasp is operated. A portion of the hasp at K is raised, as shown by Fig. 4, which is an end view of that part. This raised part forms a semicircular bridge over the entrance to slot F, as shown by K, Figs. 2 and 3, the object of which will be described hereinafter.

*e*, Figs. 1 and 2, is a button on top of pin *a*. This button is oblong and turns on top end of pin *a*. This button is to retain pin *a* in slot F at pleasure. In raising the hasp when the button is set, as shown in Fig. 2, the button will strike the bridge or raised part K of the hasp, but if it is desired to draw the hasp entirely away from pin *a* the button is to be turned at a right angle from the position shown, or so as to be parallel with slot F, when it will pass under the bridge K, and the hasp can be moved or raised entirely away from the pin *a*, and the ends of the hoop moved any required distance apart necessary.

M M, Figs. 1 and 2, are projections attached to the sides of the hoop to furnish flat seats for the hasp to rest on, also to furnish a greater thickness for pins E and *a* than the thickness of the hoop would afford.

The operation of this hoop is as follows: The hasp is to be closed, as in Fig. 2, and a cheese-curd to be put in in the usual manner for pressing and submitted to the pressing process, and when it is desired to remove the cheese from the hoop for the purpose of turning it or its final discharge, raise the hasp by the knob L, which will force the hoop open sufficiently far to allow of its easy removal; or the button *e* may be turned parallel with slot F, which will permit the hasp to be withdrawn entirely from pin *a*, and the hoop can be opened any required distance.

The advantages of this fastening are obvious, it being cheap, effective, and very convenient.

What I claim as my invention is—

The combination of the hasp D, having a bridge or bar, K, at the outer end of its slot, arranged, as described, with the oblong button *e*, the two operating together substantially in the manner and for the purpose specified.

C. P. S. WARDWELL.

Witnesses:

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