L. De Masure,
Button.

No. 27,114 — Patented Feb. 14, 1860.

Fig I

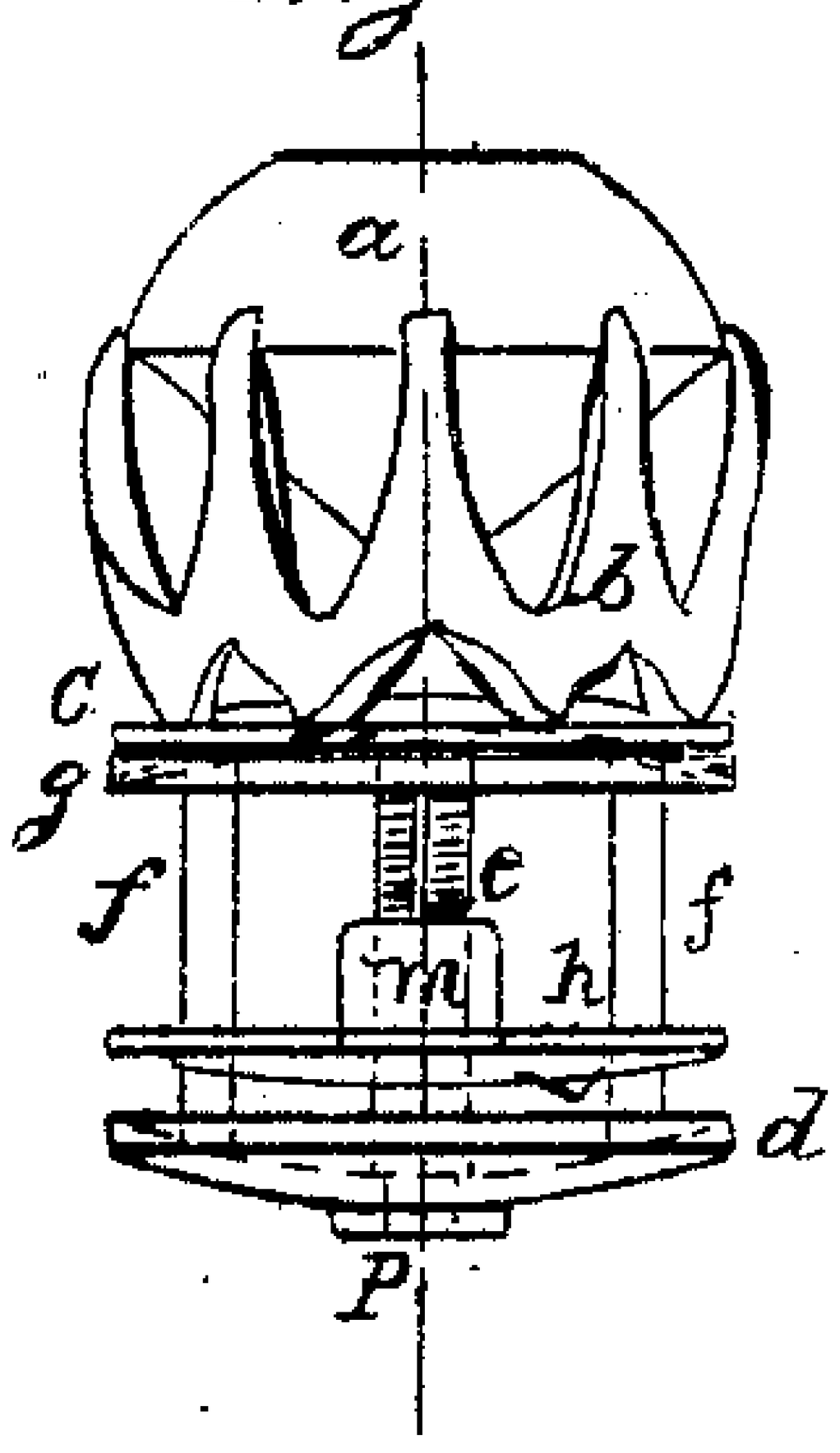


Fig II

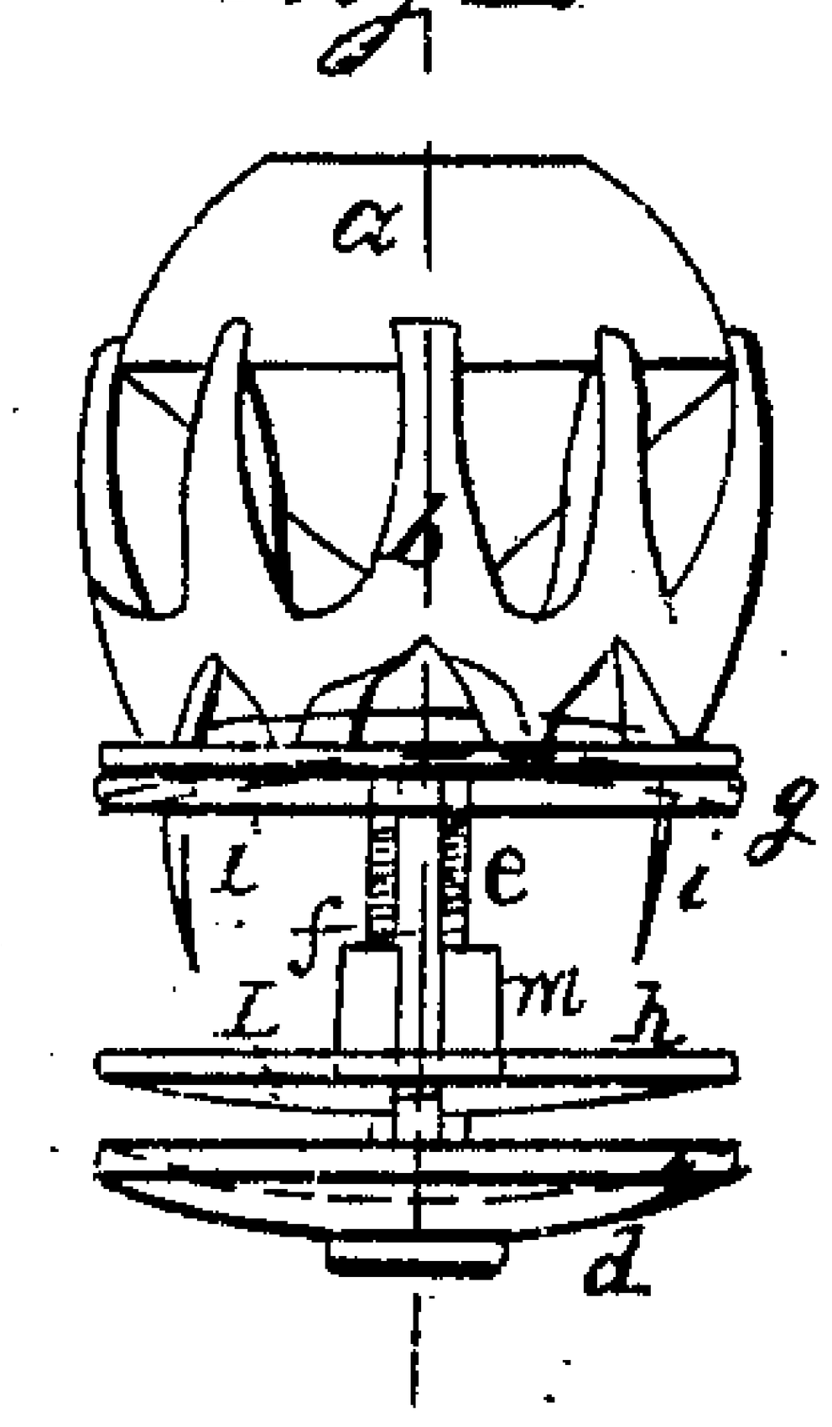


Fig III

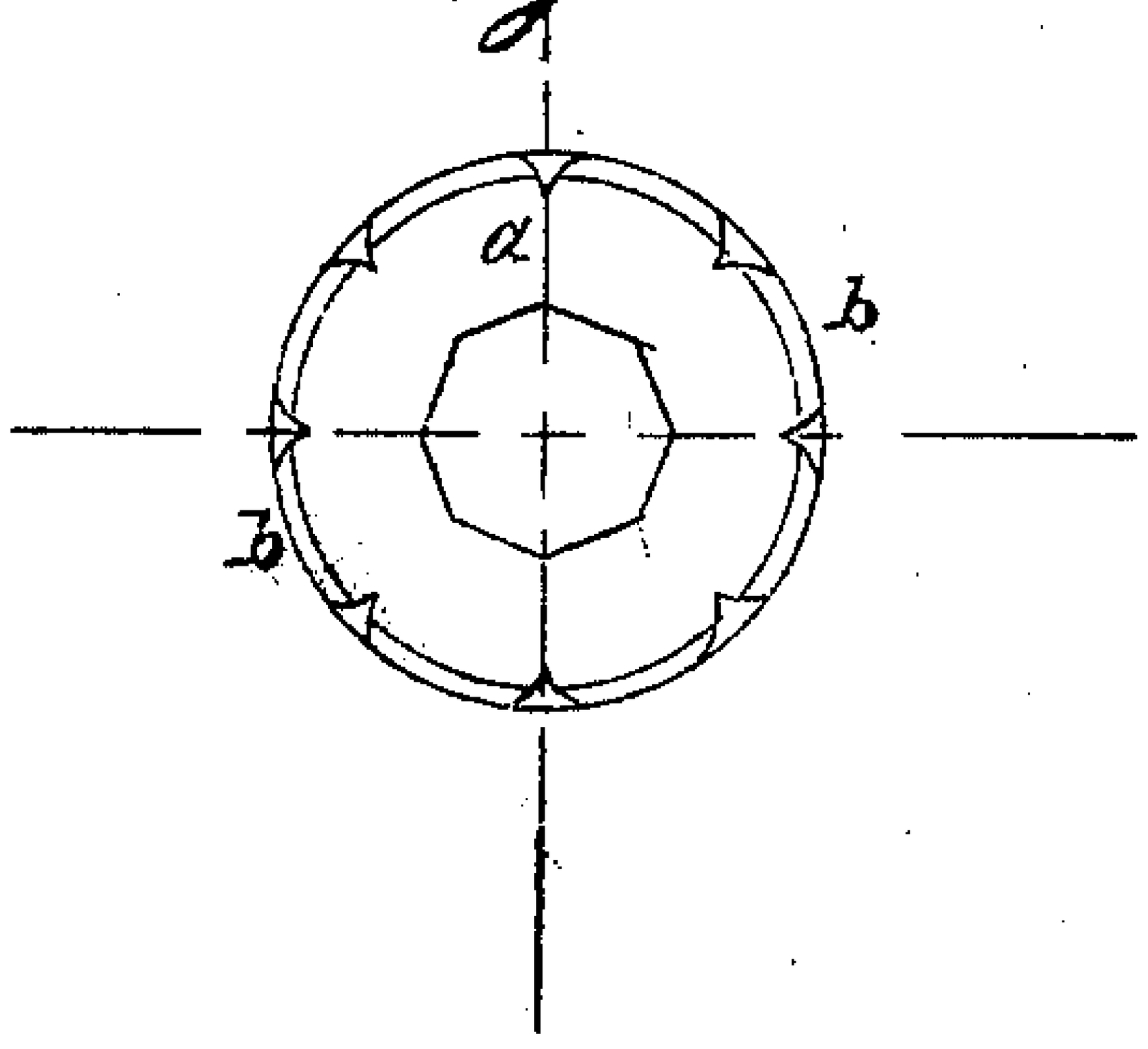


Fig IV

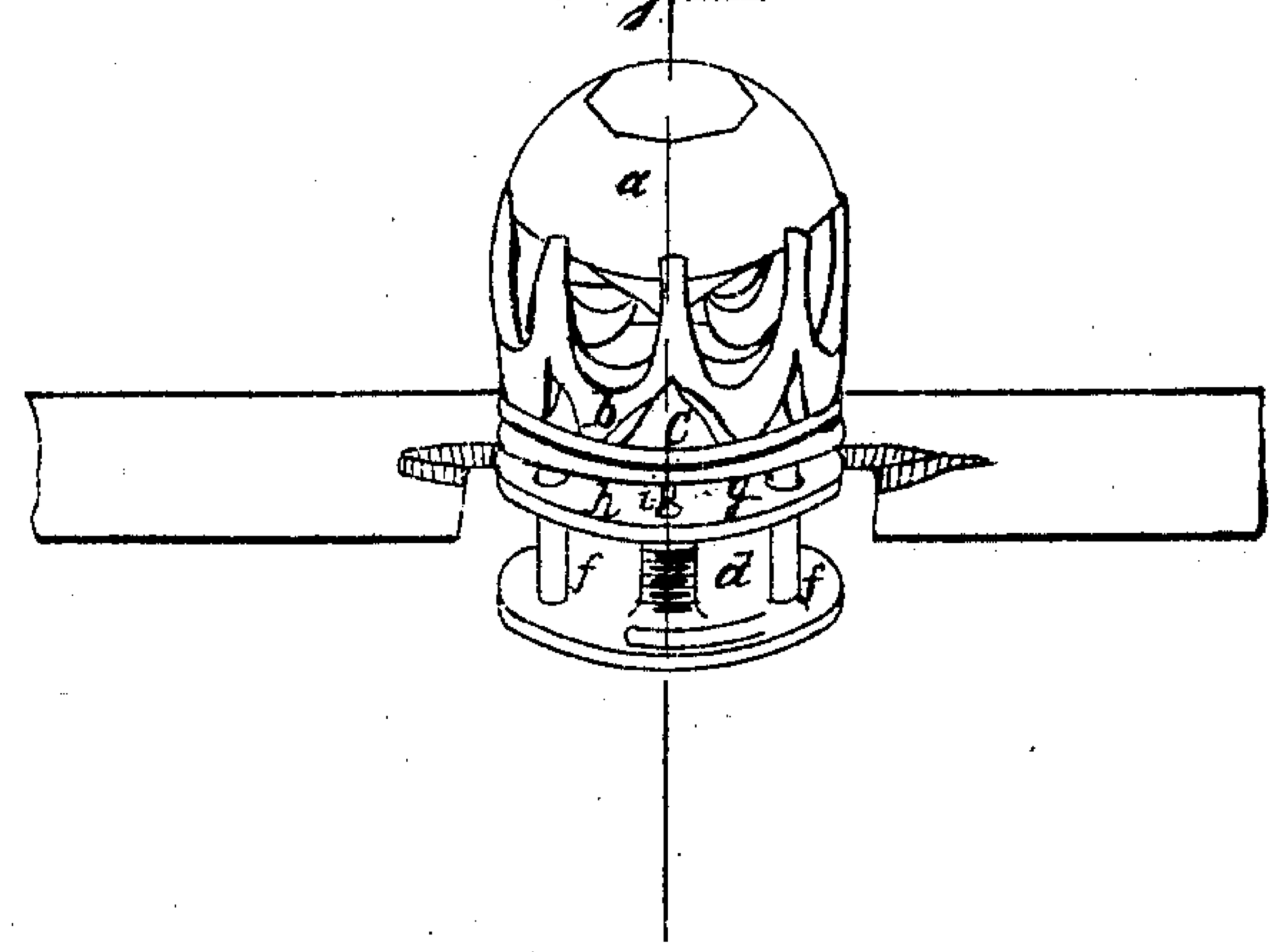


Fig V

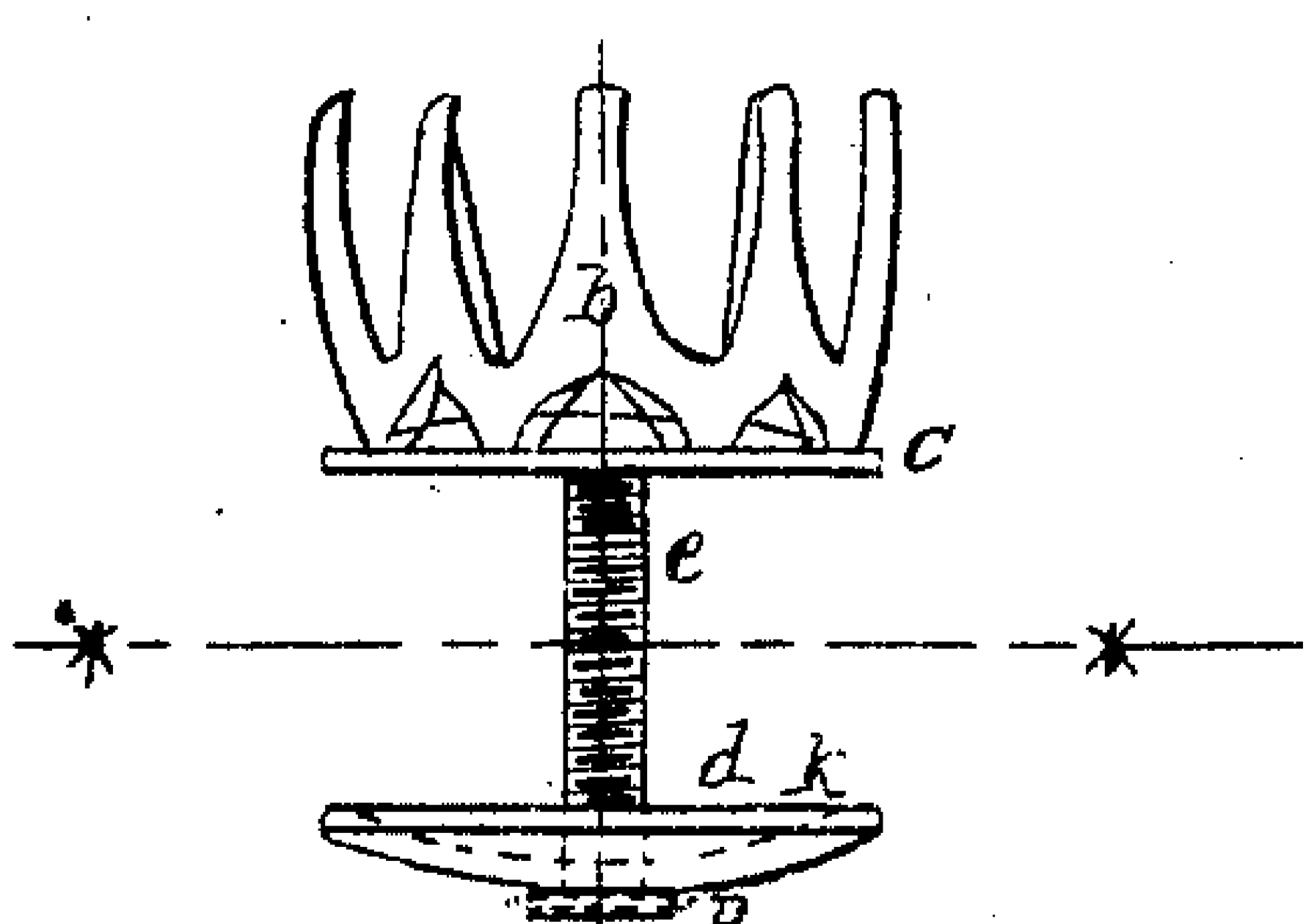


Fig VI

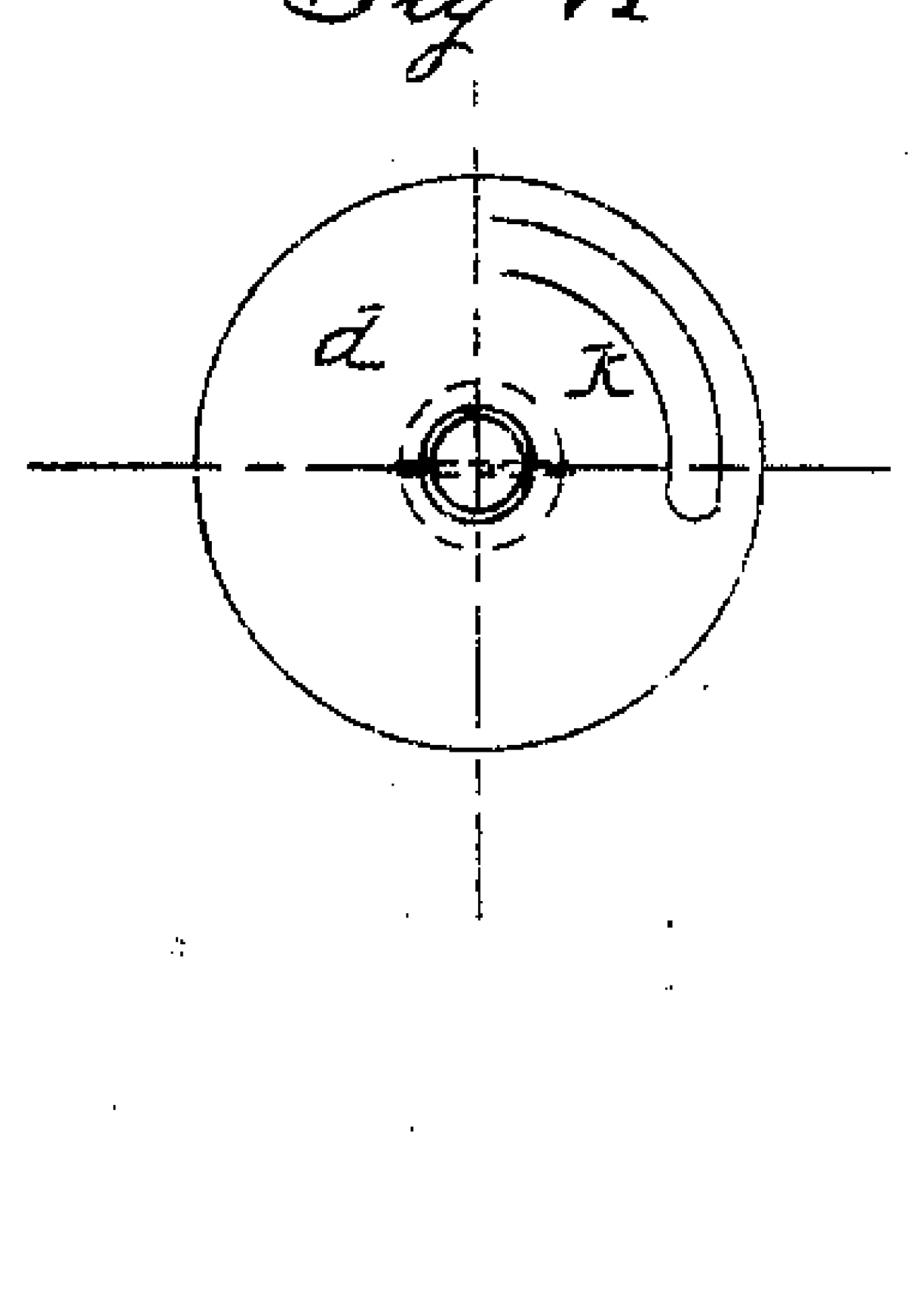


Fig VII

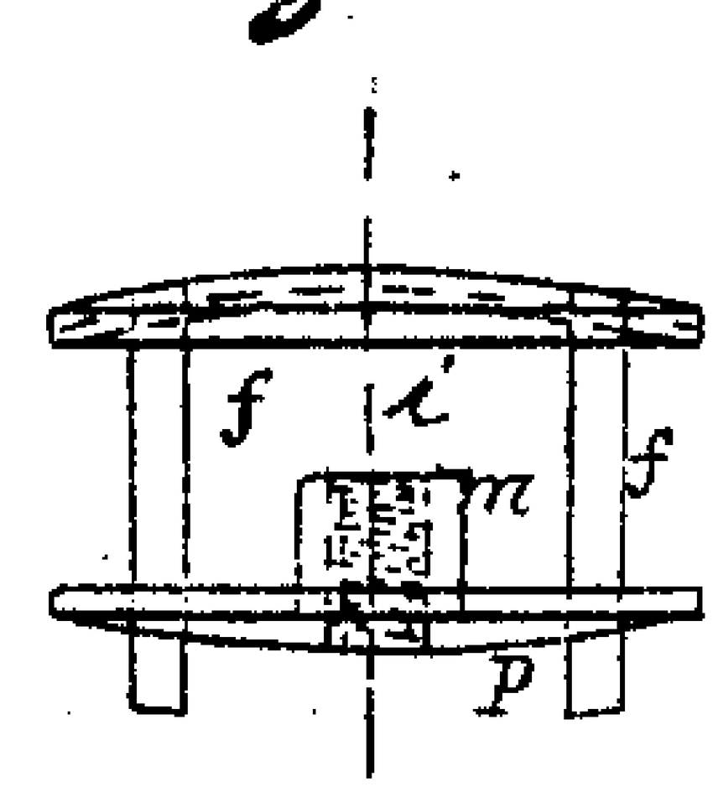


Fig VIII

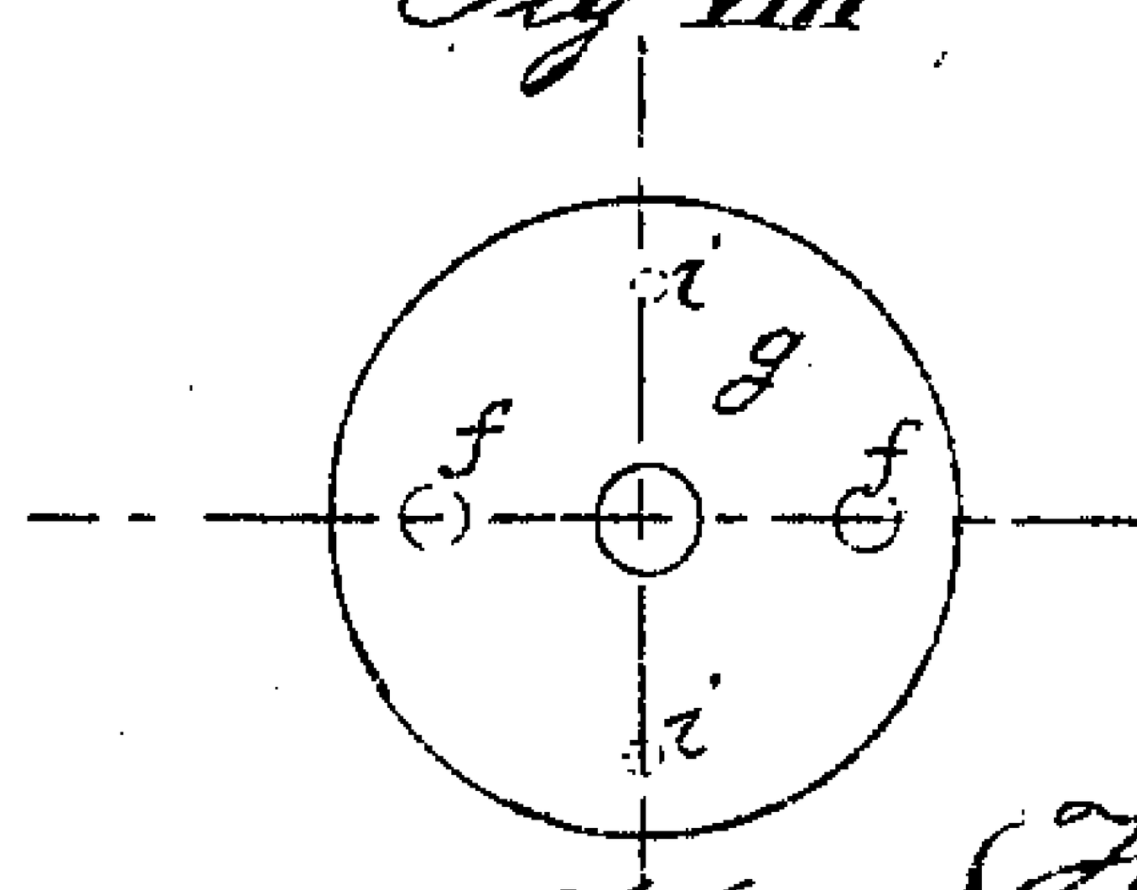


Fig IX

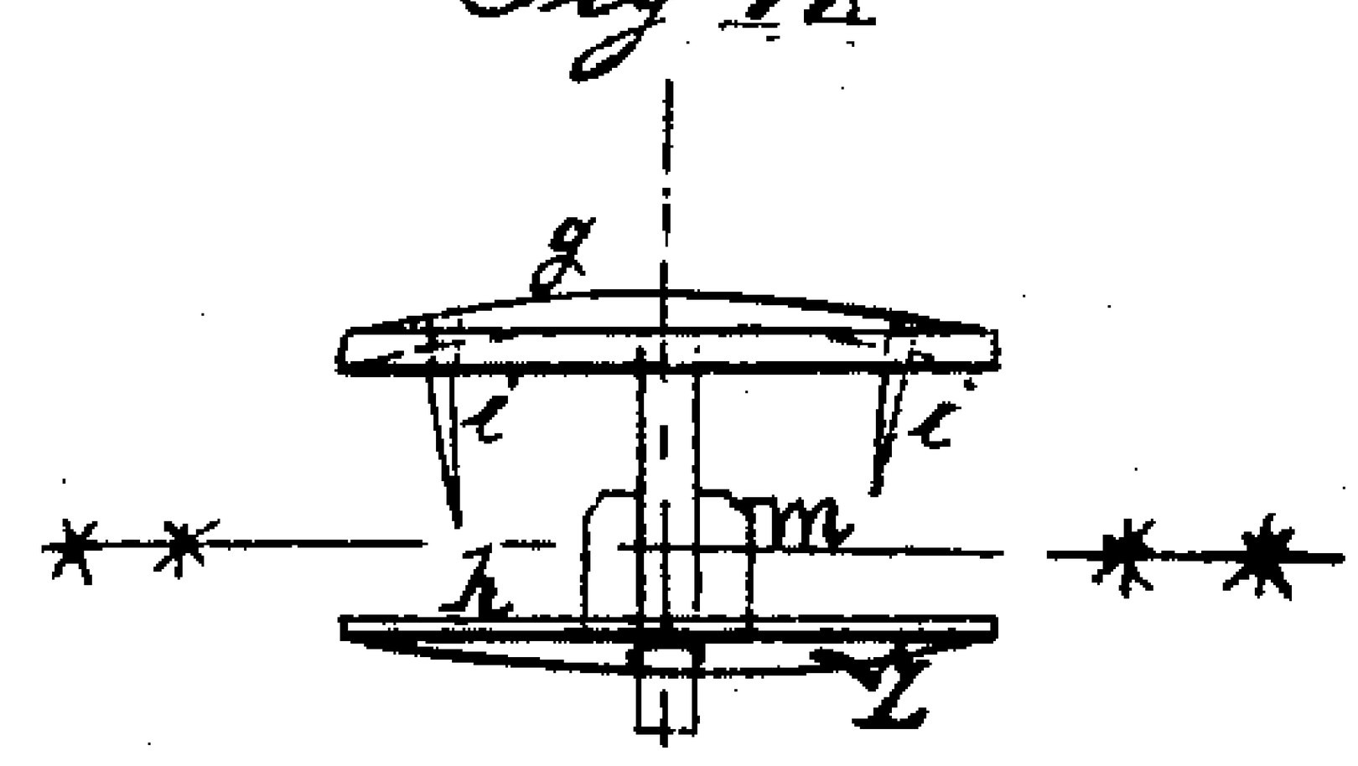
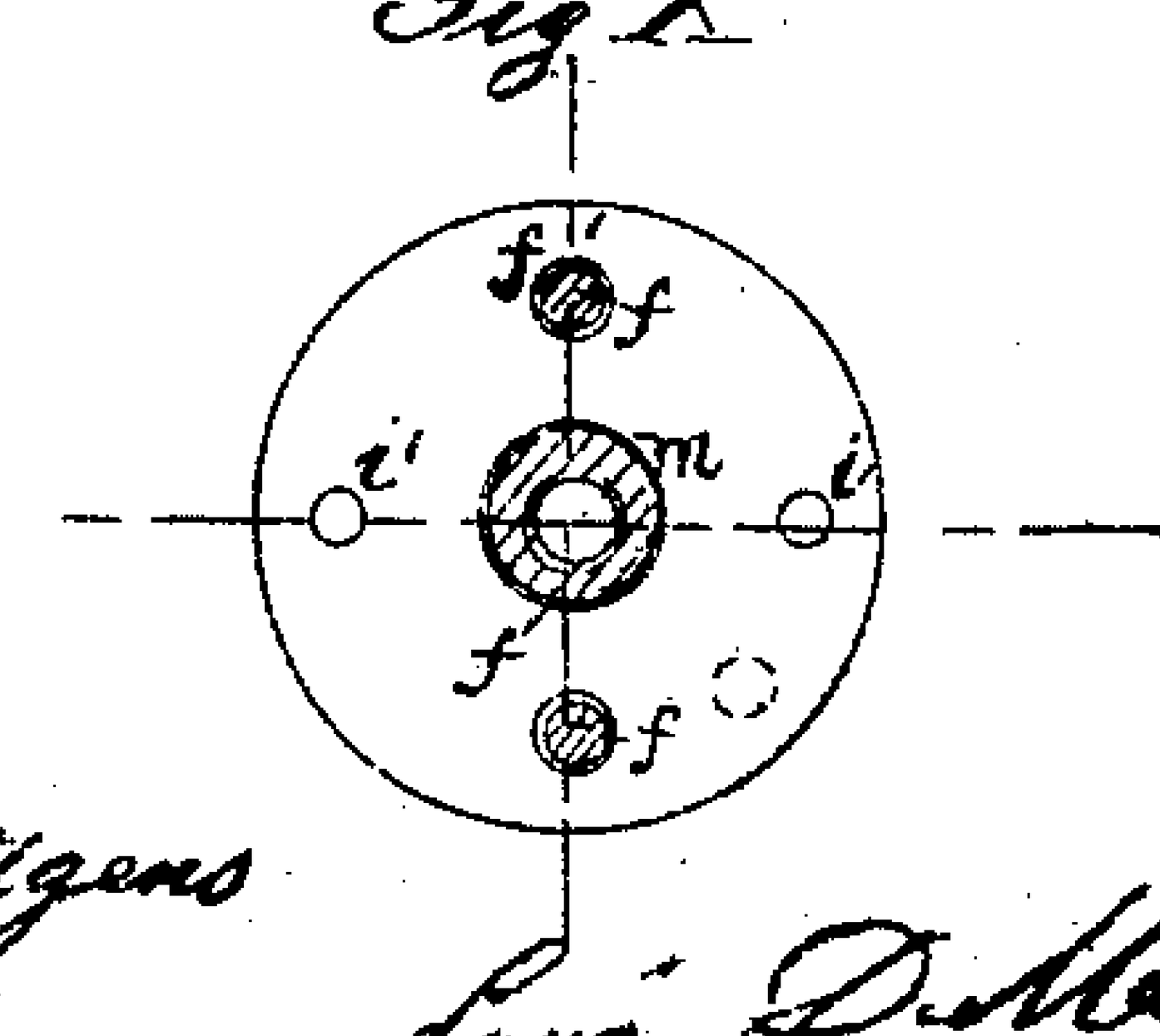


Fig X



Witness { H. A. Luttgens
John McKiernan

Louis De Masure

UNITED STATES PATENT OFFICE.

LOUIS DE MASURE, OF NEW YORK, N. Y.

SAFETY-STUD.

Specification of Letters Patent No. 27,114, dated February 14, 1860.

To all whom it may concern:

Be it known that I, LOUIS DE MASURE, of New York, in the county and State of New York, have invented a new and Improved Safety-Stud—One Not Liable to Loosen After Being Secured to its Place; and I do 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, in which—

Figures I and II are elevations of the stud; Fig. III is a plan and Fig. IV a perspective view of the same, as secured to a buttonhole which latter is shown in section; Figs. V, VII and IX are elevations and Figs. VI, VIII and X are plans of the different parts of the stud drawn in detail Fig. VI being a section of Fig. V through a plane represented by a line marked *, and Fig. X a section of Fig. IX through a plane represented by a line marked * *.

Similar letters of reference indicate corresponding parts in each of the several figures. All the figures are drawn after an enlarged scale of four times the natural size.

My invention consists: in adding to the two plates and central stem forming the ordinary stud, a movable plate, which forms a nut at its center, and is fitted to the central stem provided with a thread, and another plate placed below the front or top plate of the stud, which is provided with a central hole, of a bore equal to the outside diameter of the screw stem; this plate has secured to it two circular rods, of a length sufficient to nearly fill the distance between the outside plates, and which pass loosely through holes provided in the movable plate; it has also secured to it two pins, of a length about one-half that of the circular rods, which likewise have opposite to them, and in the movable plate, corresponding holes of sufficient size to enable them to pass through the latter. This movable plate is provided with a projection which forms a stop, when brought up to the end of a groove in the back or bottom plate of the stud.

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

a is the stone or front of a stud, secured by the setting *b*, which latter is secured to a front or top plate *c;* this plate being provided with a screw *e* fitting into a nut *m*, forming the central part of a movable plate *h;* the end of the screw stem *e* is fitted to the central boss of the back or bottom plate *d*, and is secured by the pin *p*. Another plate *g*, provided with a hole of a diameter sufficient to fit loosely upon the screw stem *e*, is placed toward the inside of the front or top plate *c;* it is itself made of two separate plates, of equal size and soldered together, for the purpose of firmly securing two circular rods *f f* and two pins *i i;* in the operation of fitting the blunt ends of the pins *i i* are first pressed into the concave face of one of the plates, and the other being provided with holes to pass the pins *i i* and circular rods *f f*, is soldered to the face of the first; the pins *i i* are about one half the length of the circular rods *f f*, the latter being of a sufficient length, nearly to fill the distance between the outside plates *c* and *d;* the movable plate *c* is provided with four holes, *f′ f′* to receive the circular rods *f f*, and also with holes *i′ i′*, which allow pins *i i* to pass through the plate *c;* the movable plate *c* also has a projection *l* forming a stop when brought up to the end of a groove *k*, provided in the back or bottom plate *d*. All the plates *c*, *g*, *h* and *d* are circular, and convex toward the outside.

Its operation is as follows: The movable plate *h* having been brought up toward the plate *d*, there remains a sufficient space between the plate *h* and the point of pins *i i*, to insert the stud into the buttonhole as usual; this being done, the circular rods *f f* pass through the buttonhole near the corners of the same, holding the plates *g* and *h*, so as to prevent their turning. It now remains to turn the front or top plate *c*, which advances the movable plate *h*, toward the plates *c* and *g;* before the plate *h* is brought up to the cloth the pins *i i* will have penetrated the same, and prevent the stud from changing its position after being once secured by a sufficient turning of the stud.

When it is desired to release the stud from the buttonhole the front or top plate *c* is turned in the opposite direction, until the movable plate *h* is brought up to plate *d*, when the stud may be taken out as usual.

What I claim as my invention and desire to secure by Letters Patent is:

1. The movable plate *h*, which after the stud is placed within the buttonhole, is capable of advancing toward, or receding from,

the front or top plate *c*, guided by the circular rods *f f*, by means of turning or revolving plate *c*.

2. I claim the plate *g*, provided with circular rods *f f*, and fitting loosely upon the screw stem *e*.

3. I claim, securing the pointed pins *i i* into the plate *g*, (a plate separate from the front or top plate *c*), so as to cause them to enter the cloth in the operation of securing the stud to the same.

LOUIS DE MASURE. [L. S.]

Witnesses:
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H. A. LUTTZENS.