

No. 668,119.

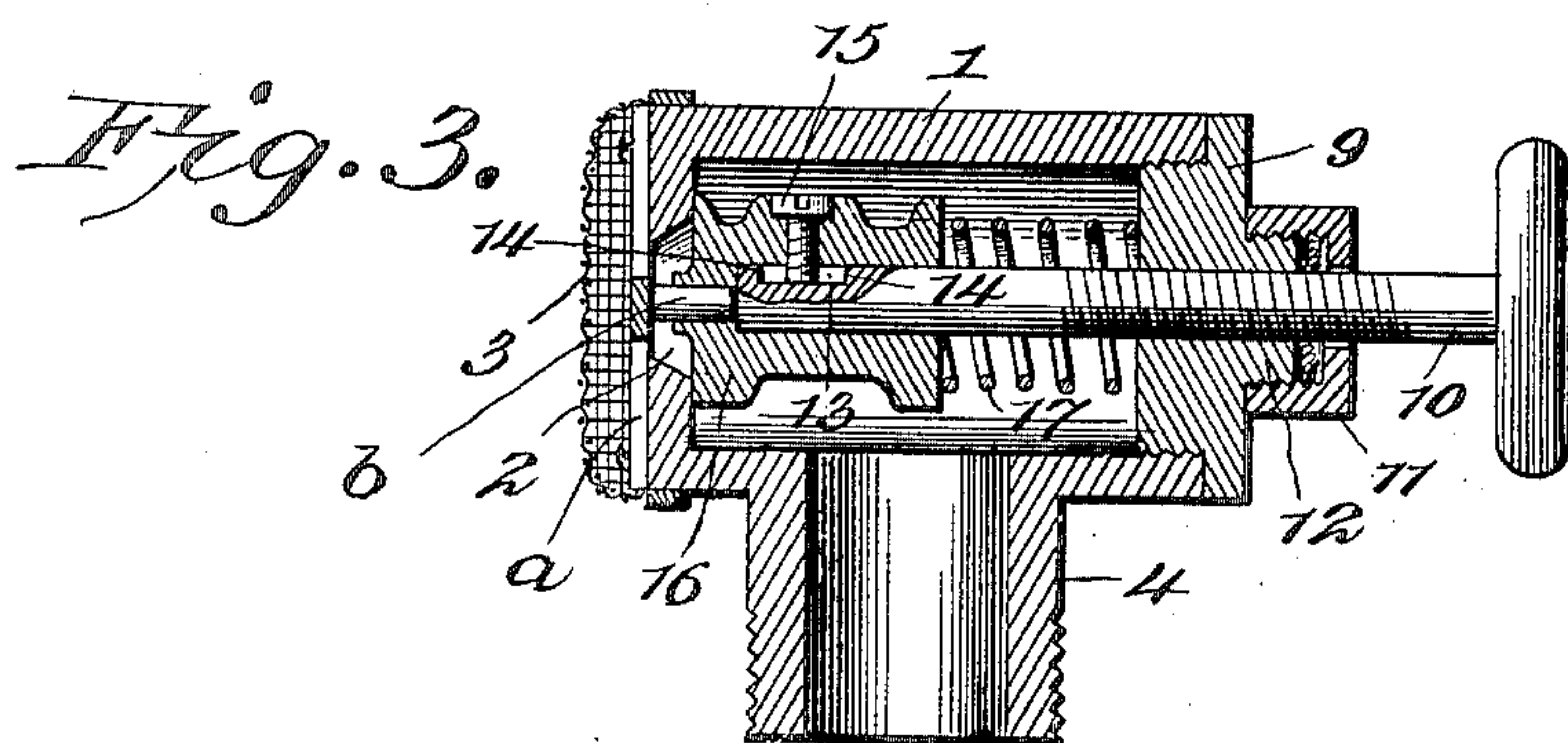
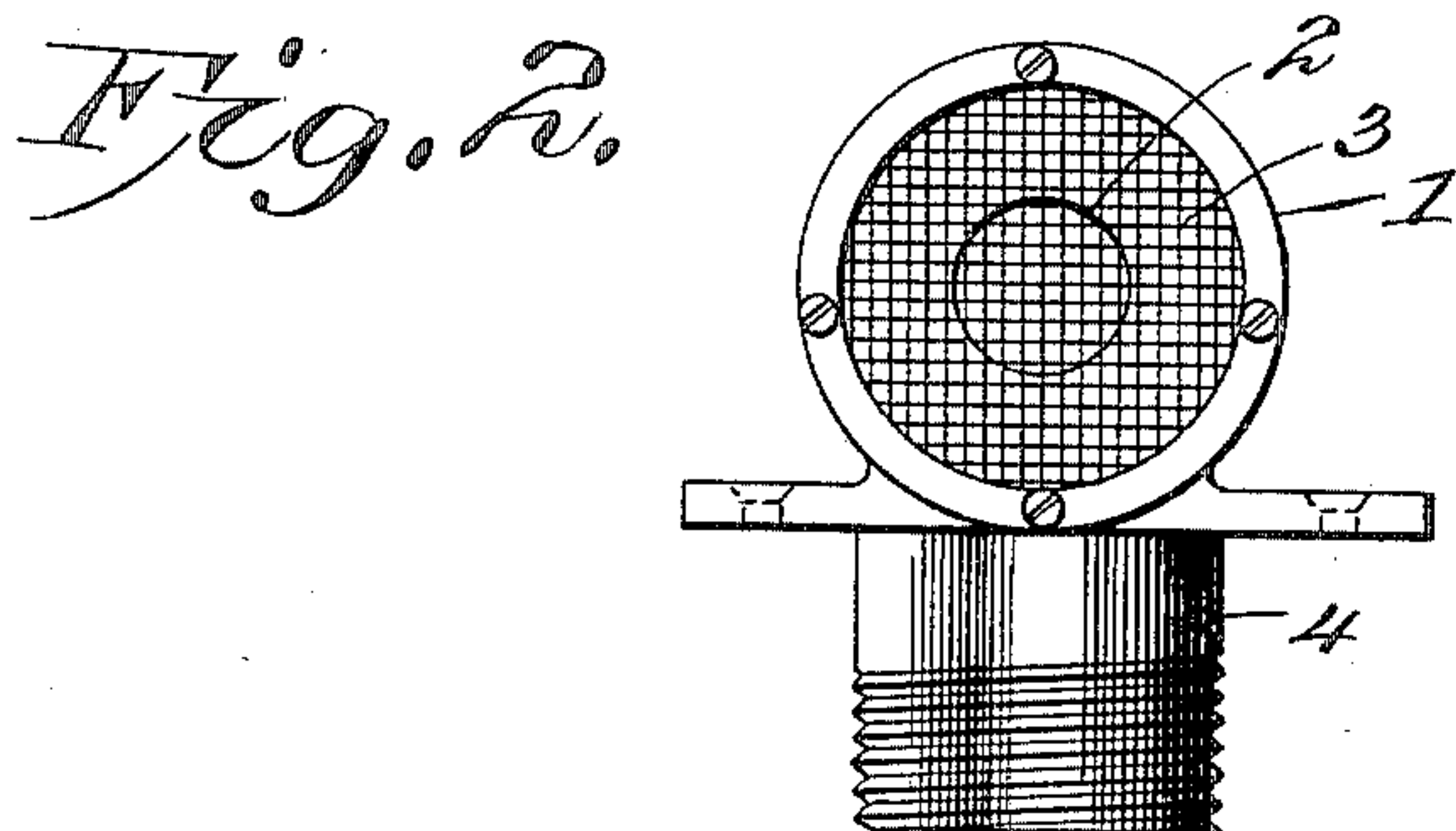
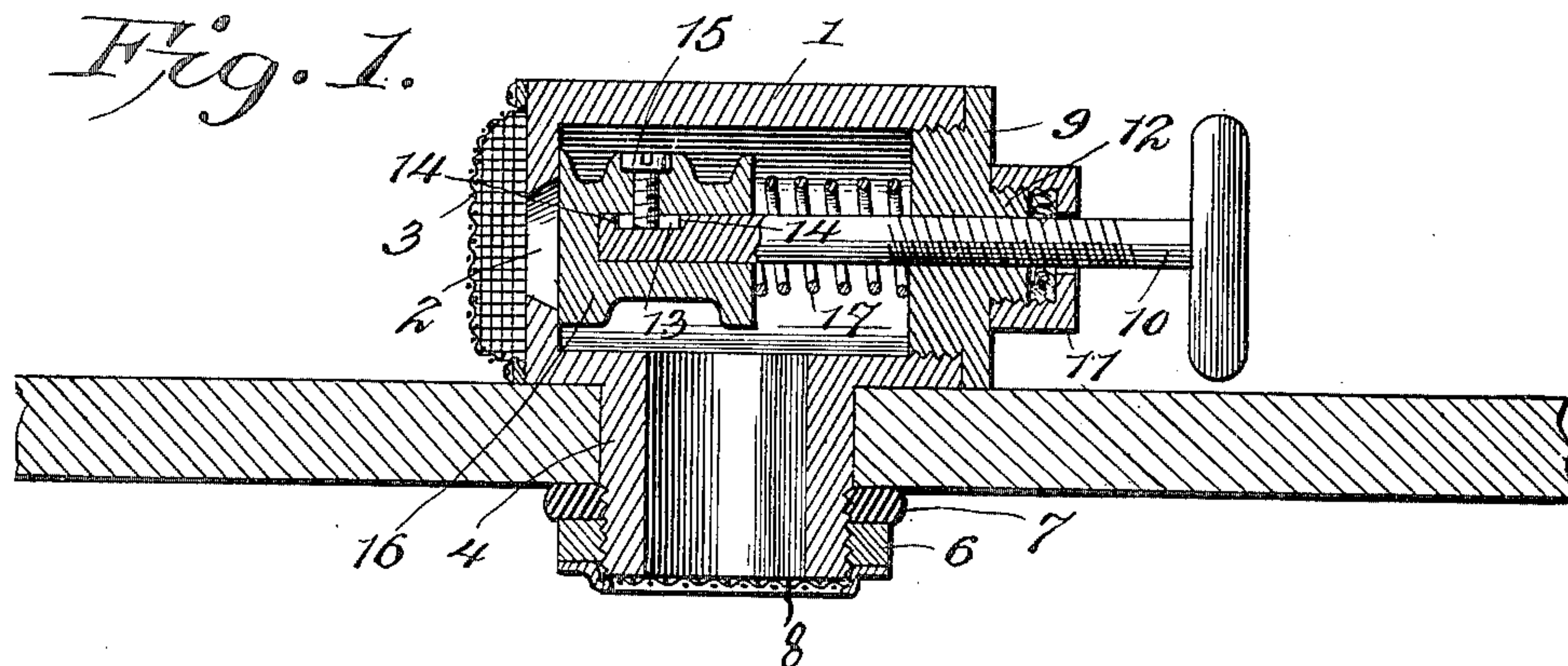
Patented Feb. 12, 1901.

J. J. PAFF.

DRAINING DEVICE FOR LIFE BOATS.

(Application filed June 26, 1900.)

(No Model.)



Witnesses
Edgar, M. Lyons.
C. E. Webb.

John J. Paff Inventor
by Hans Sappeman
Attorney

UNITED STATES PATENT OFFICE.

JOHN J. PAFF, OF BALTIMORE, MARYLAND.

DRAINING DEVICE FOR LIFE-BOATS.

SPECIFICATION forming part of Letters Patent No. 668,119, dated February 12, 1901.

Application filed June 26, 1900. Serial No. 21,609. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. PAFF, a citizen of the United States of America, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Draining Devices for Life-Boats, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to life-boats, and particularly to means for draining water from such boats.

The object of the invention is to provide a novel form of valve which is automatically closed or in which the valve proper is seated by the pressure of air in the valve-casing, said pressure existing so long as the boat is riding on the water.

20 Furthermore, the object of the invention is to provide novel means for attaching the valve-casing to the bottom of the boat in such position as to permit the water to drain therefrom when the valve is open.

25 Furthermore, the object of the invention is to provide means for holding the valve open or closed, so that the valve may be operated only through the manipulation of the valve-stem, if desired.

30 With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and specifically claimed.

35 In describing the invention in detail reference will be had to the accompanying drawings, forming part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

40 Figure 1 is a central sectional view of a portion of a life-boat with the invention applied. Fig. 2 is a view in elevation of the valve detached. Fig. 3 is a longitudinal sectional view showing a slightly-modified construction.

45 In the drawings, 1 indicates the valve-casing, having an end opening 2, covered by a strainer 3 in order to prevent clogging of the valve. The valve-casing has a depending annular flange 4, which extends through the bottom of the boat and which is secured therein by the ring-nut 6. A gasket 7 is interposed between the nut and the bottom of the boat to effect a water-tight joint. The opening

formed by the annular flange communicates with the interior of the valve-casing and is guarded by a strainer 8. The valve-casing is provided with a head 9, having a central aperture in which the valve-stem 10 is threaded. A suitable stuffing-box 11 is secured in any desired manner on the nipple 12 of the head. The upper surface of the valve-stem is slotted, as indicated at 13, near the inner end, the said slot having shoulders 14 at each end, against which a screw 15 of the valve 16 abuts. Said valve 16 is slidable on the stem, and the screw and shoulders serve to limit the movement of the valve. A spring 17 encircles the valve-stem and engages the end of the valve and the head of the valve-casing. The spring serves to hold the valve normally seated when the valve-stem is screwed in. In addition to the spring-pressure I utilize the air-pressure in the valve-casing when the boat is launched for retaining the valve securely in place, the pressure within the valve-casing depending on the weight of the boat and its occupants.

As shown in Fig. 3, the strainer 3 is provided with a spider *a*, converging centrally of the opening of the valve-casing. A stud *b* on the spider projects into the opening of the valve-casing and acts as a guide for the valve, since the end of the valve is recessed to receive the stud. This arrangement prevents binding of the valve on the valve-stem as it slides thereon.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a draining device for life-boats, a valve-casing in communication with the sea through the boat's bottom, a valve-stem threaded in the head of the valve and having a slot near its inner end, a valve having a movement longitudinally on the valve-stem, a screw through the valve traveling in the slot whereby the valve's movement is limited, a spring encircling the valve-stem and engaging its head and means for guiding the valve.

2. In a draining device for life-boats, a valve-casing in communication with the sea through the boat's bottom, a valve-stem threaded in the head of the valve and having a slot near its inner end, a valve having a movement longitudinally on the valve-stem, a

screw through the valve traveling in the slot
whereby the valve's movement is limited, a
spring encircling the valve-stem and engag-
ing the valve and its head and a spider having
5 an inwardly-protruding stud, the valve hav-
ing a recessed end to receive the stud substan-
tially as described.

In testimony whereof I affix my signature
in the presence of two witnesses.

JOHN J. PAFF.

Witnesses:

GEO. R. JARMAN,
WILLIAM E. SCHUL.