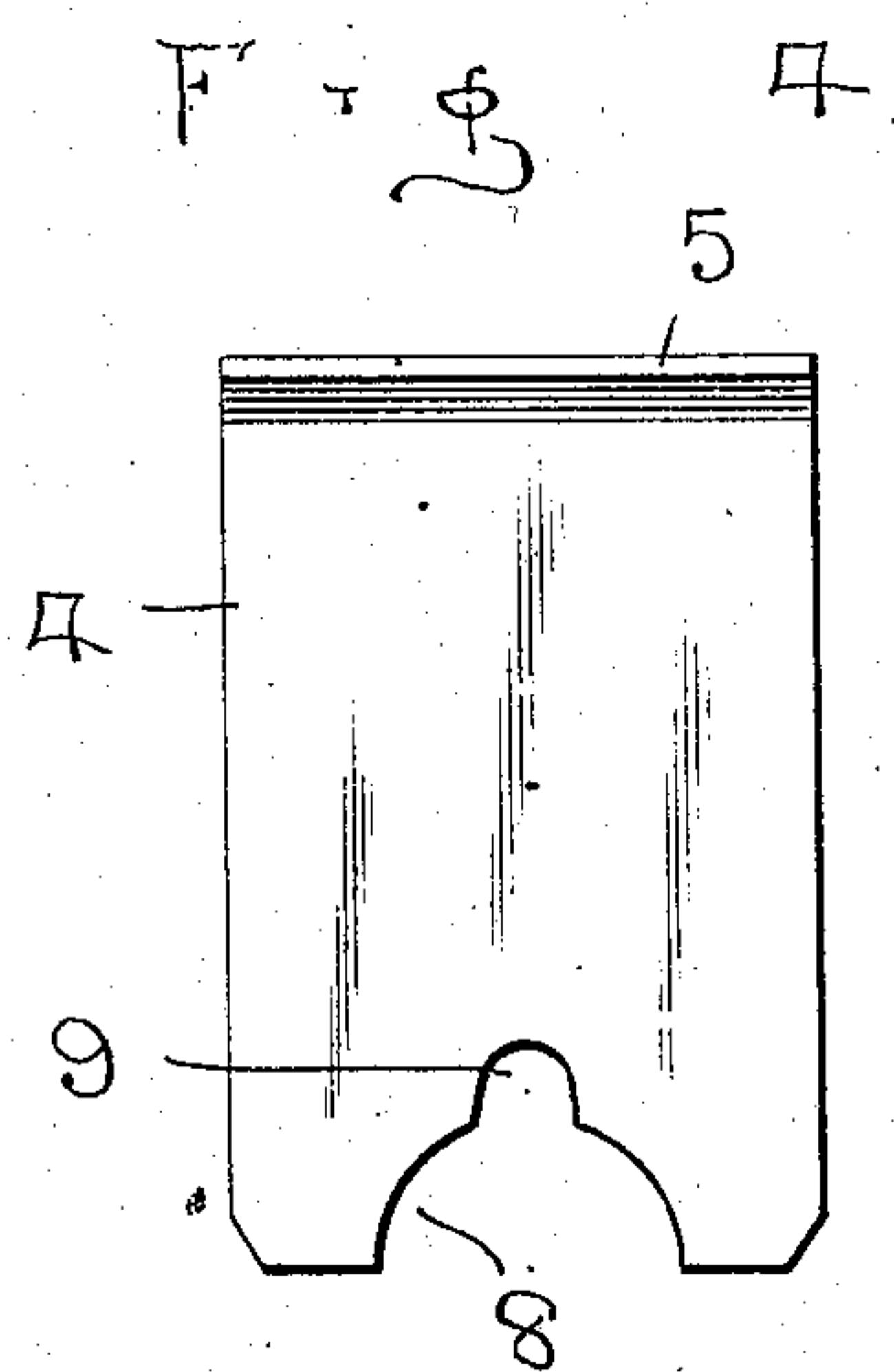
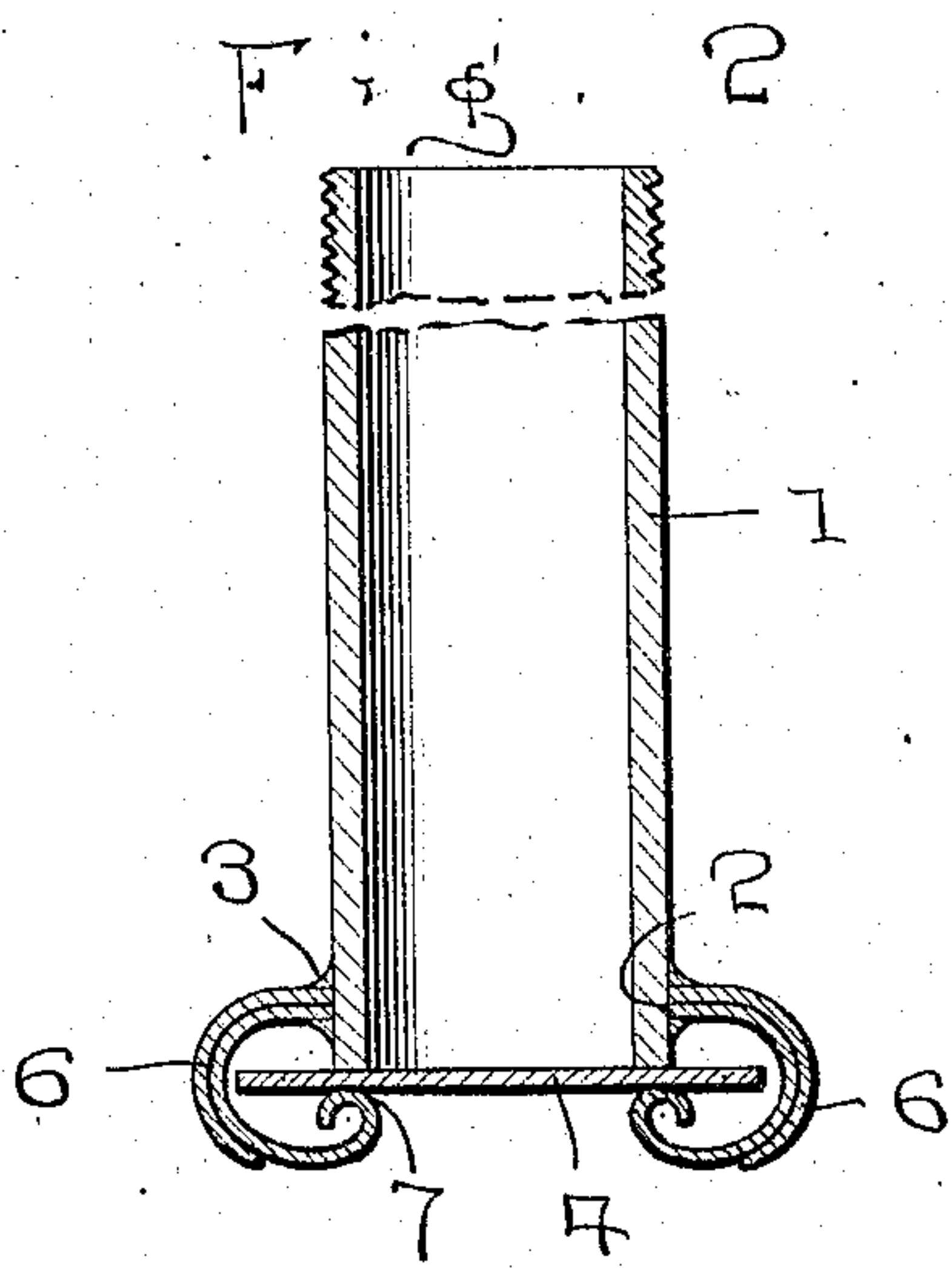
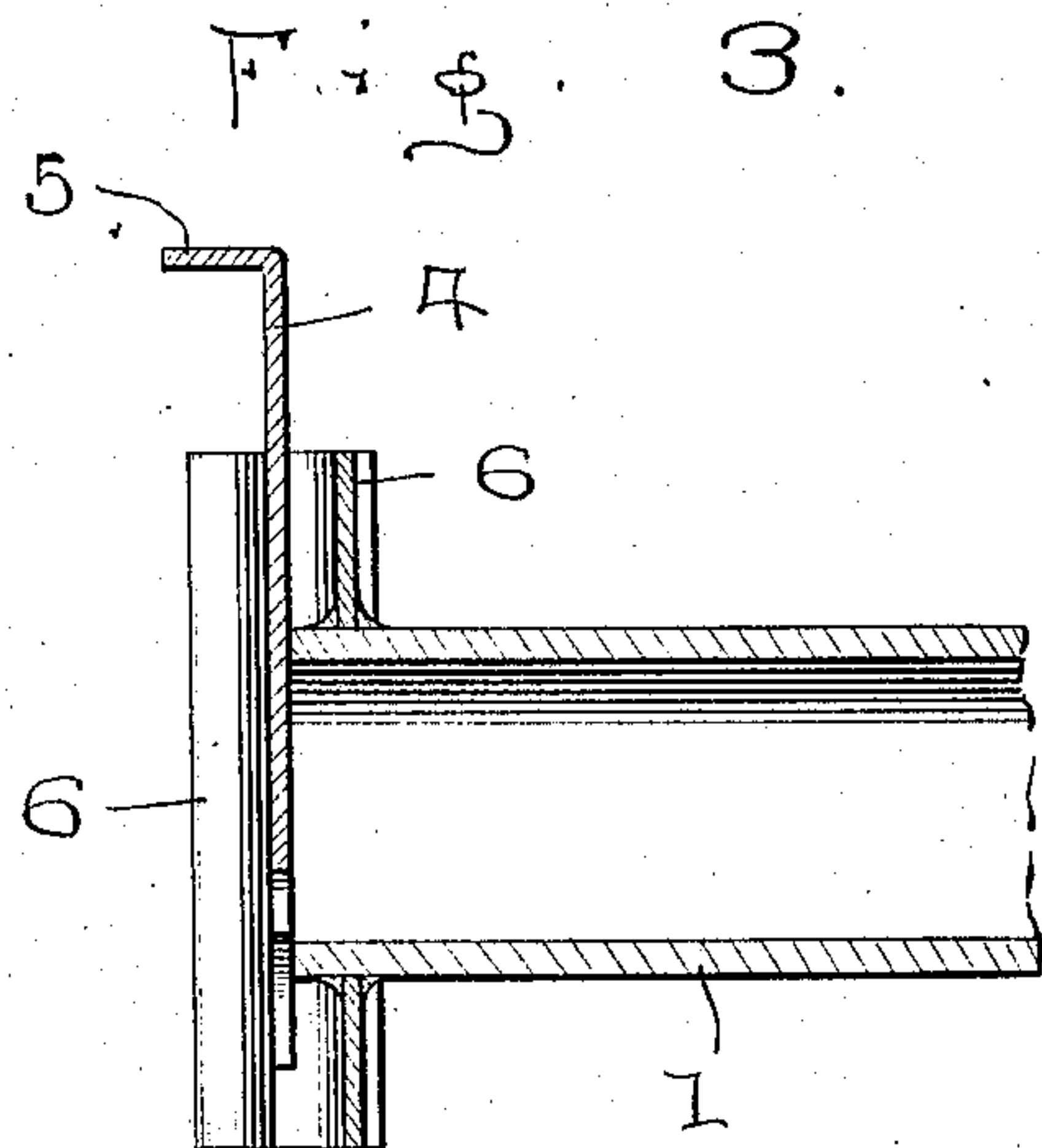
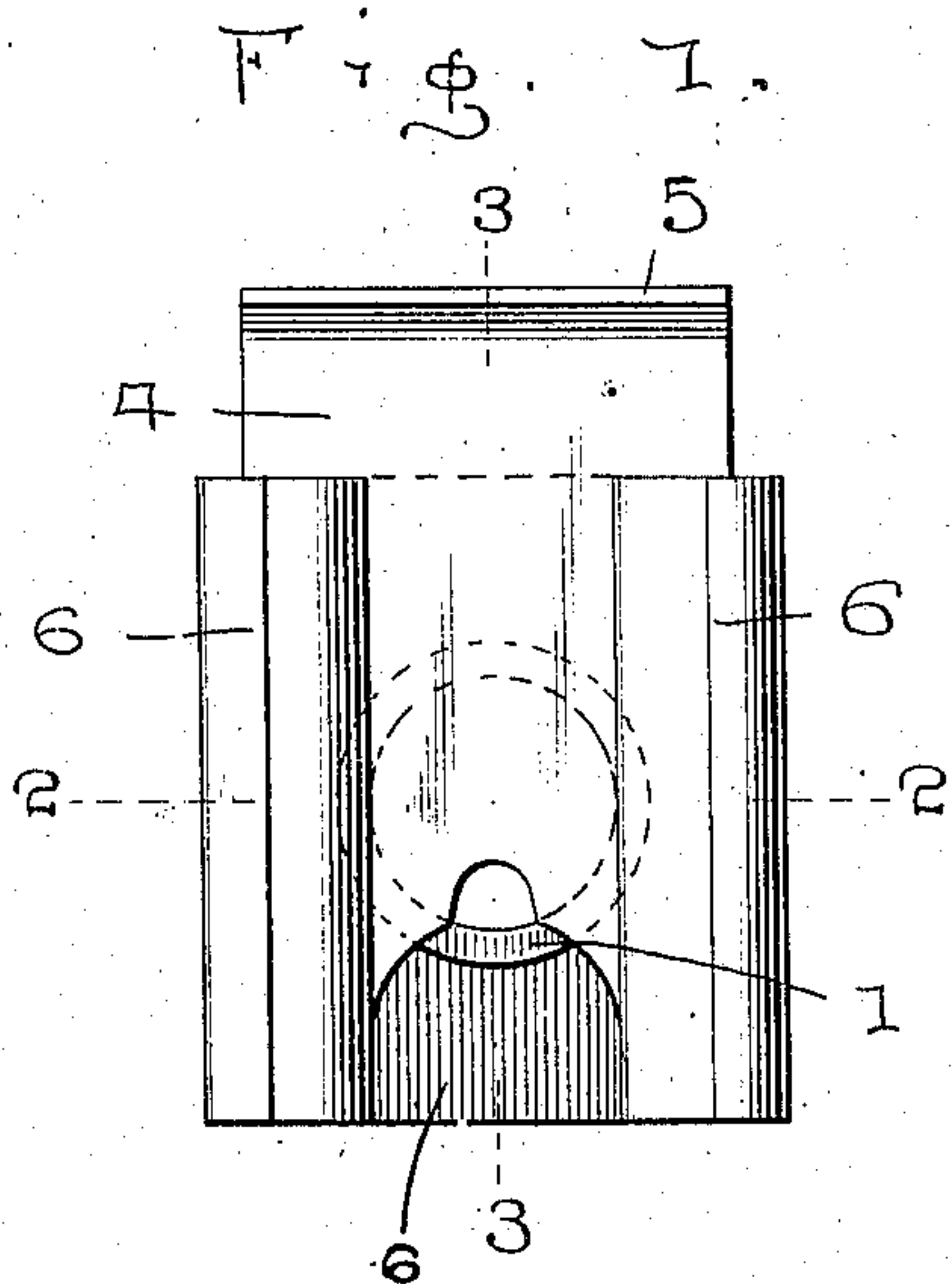


H. S. MUNSON.  
 FLUME GATE.  
 APPLICATION FILED SEPT. 15, 1908.

907,851.

Patented Dec. 29, 1908.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HOMER SPAFFORD MUNSON, OF REDLANDS, CALIFORNIA.

## FLUME-GATE.

No. 907,851.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed September 15, 1908. Serial No. 453,174.

*To all whom it may concern:*

Be it known that I, HOMER SPAFFORD MUNSON, a citizen of the United States, residing at Redlands, in the county of San Bernardino and State of California, have invented certain new and useful Improvements in Flume-Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in flume gates and it is an object of the invention to provide a novel device of this character which can be quickly applied in operative position.

It is also an object of the invention to provide a novel device of this character wherein the gate holder will effectually hold the gate or slide against the ends of the flume.

It is also an object of the invention to provide a novel device of this character which will be simple in construction, efficient and advantageous in practice and comparatively inexpensive to manufacture.

It is also an object of the invention to provide a novel device of this character wherein the tube of the gate is threaded, making it easy to attach or detach from the flume or irrigating device.

With the above and other objects in view, the invention consists of the details of construction and in the novel arrangement and combination of parts to be hereinafter more particularly referred to.

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

Figure 1 is a view in front elevation of the invention. Fig. 2 is a view on the line 2—2, Fig. 1. Fig. 3 is a view on the line 3—3, Fig. 1. Fig. 4 is a view in elevation of the gate detached.

In the drawings, 1 denotes a cylindrical tube, which has one of its ends threaded and its opposite end portion projecting through a

central opening 2 formed in the gate holder, said gate holder being held to the tube 1 by solder or other retaining means as indicated at 3. In the gate holder slides the gate 4, this gate 4 consisting of a flat plate, the upper edge of which being bent at right angles thereto to form operating means 5 and the gate or slide 4 is resiliently held against the ends of the tube 1 by the cylindrical springs 6 which are formed on the longitudinal edges of the gate holder. In order that the springs may properly perform their functions the edge portions are bent back upon themselves so that the cylindrical springs will be formed of two plies of metal. This arrangement also affords a rounded surface 7 to contact with the gate 4. Attention is directed to the fact that the lower edge of the gate 4 is provided with a main semicircular recess 8 which has formed centrally of its edge a second recess 9 approximately U-shaped. By this arrangement various discharges from the tube 1 may be obtained without the necessity of undue movement of the gate 4, as it is believed to be obvious.

I claim:—

1. In combination with a flume, a gate holder secured thereto, said gate holder having its edge portions bent upon themselves to form cylindrical springs of a multiplicity of plies and a gate movable with relation to the end of the flume, and having a semi-circular recess in its lower edge and a second recess in the edge of the semi-circular recess, said gate being contacted with by the cylindrical spring.

2. In combination with a flume, a gate holder and a gate movable within the holder, said gate having a semi-circular recess formed in one of its edges, said gate having a second recess formed in the edge of the semi-circular recess.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HOMER SPAFFORD MUNSON.

Witnesses:

ALBERT MILLER,  
J. EDWARD TISCHER.