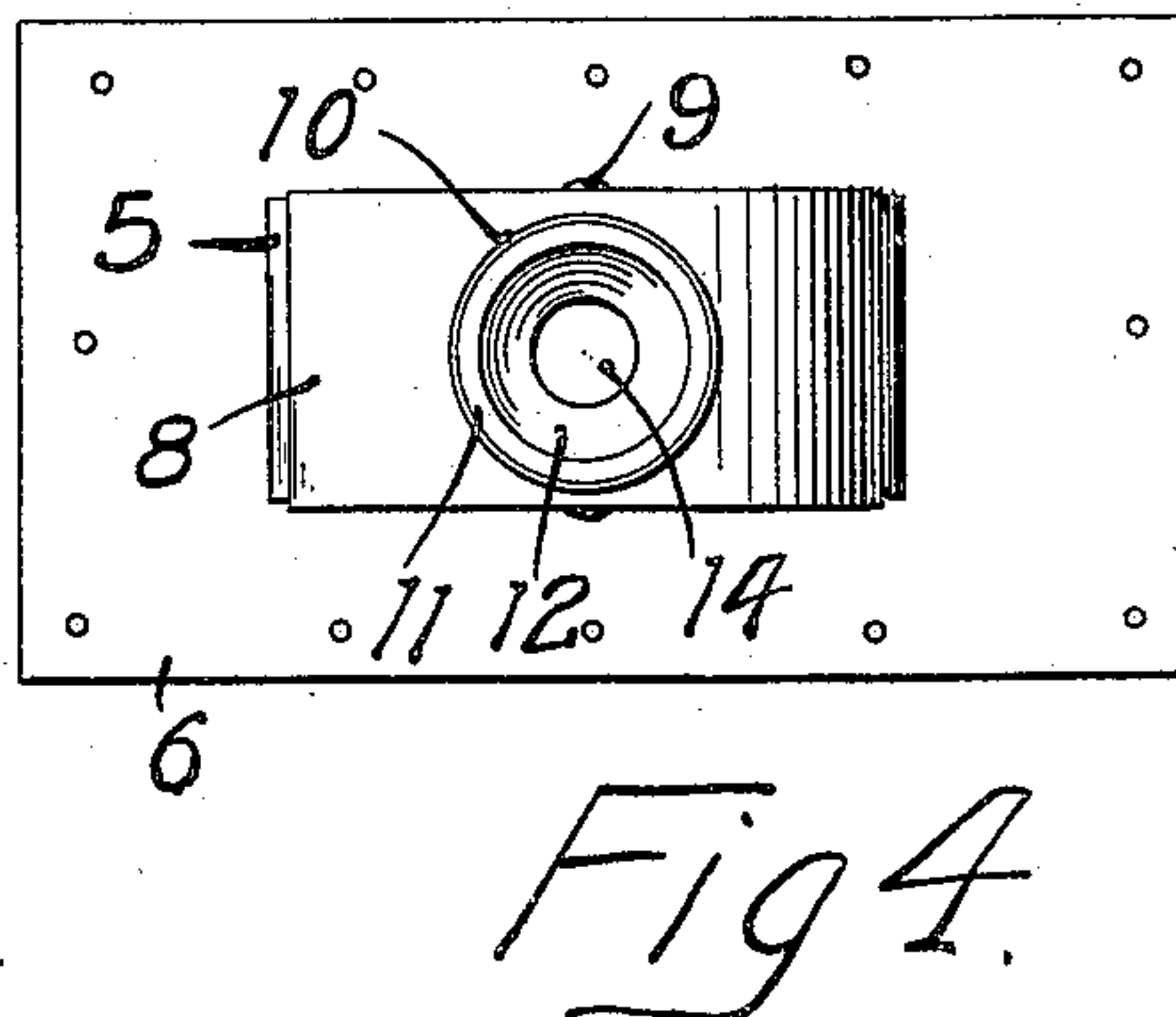
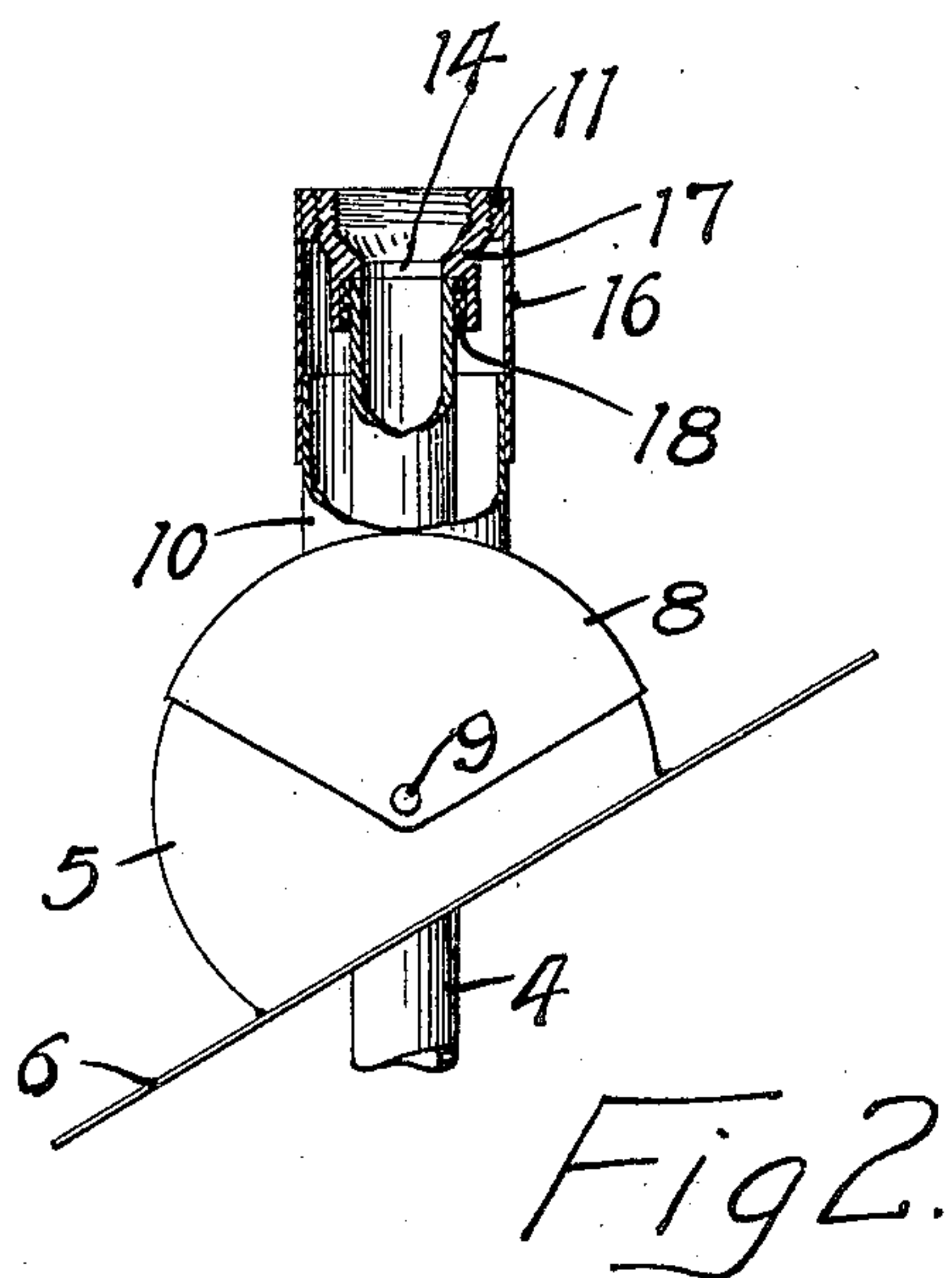
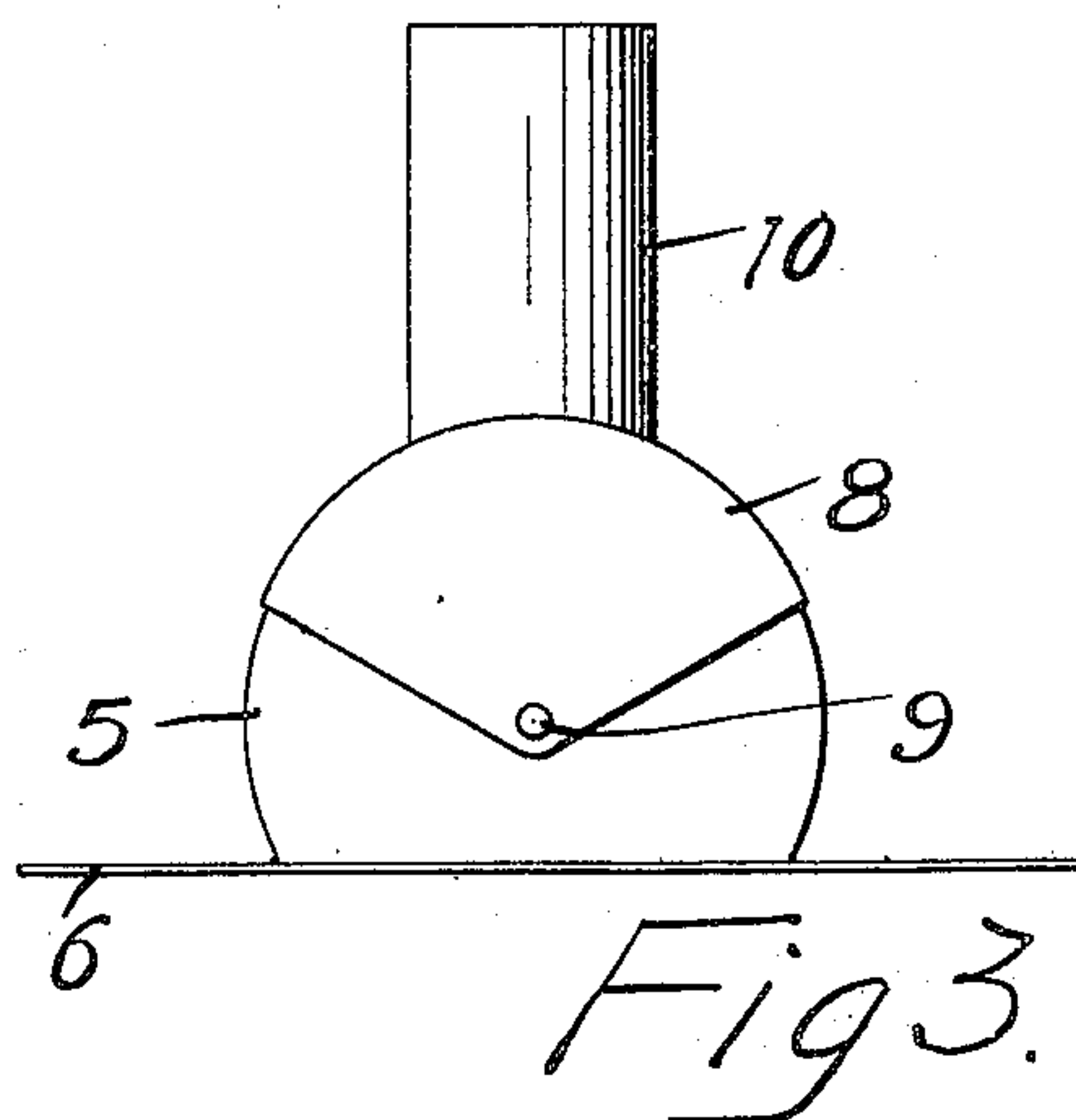
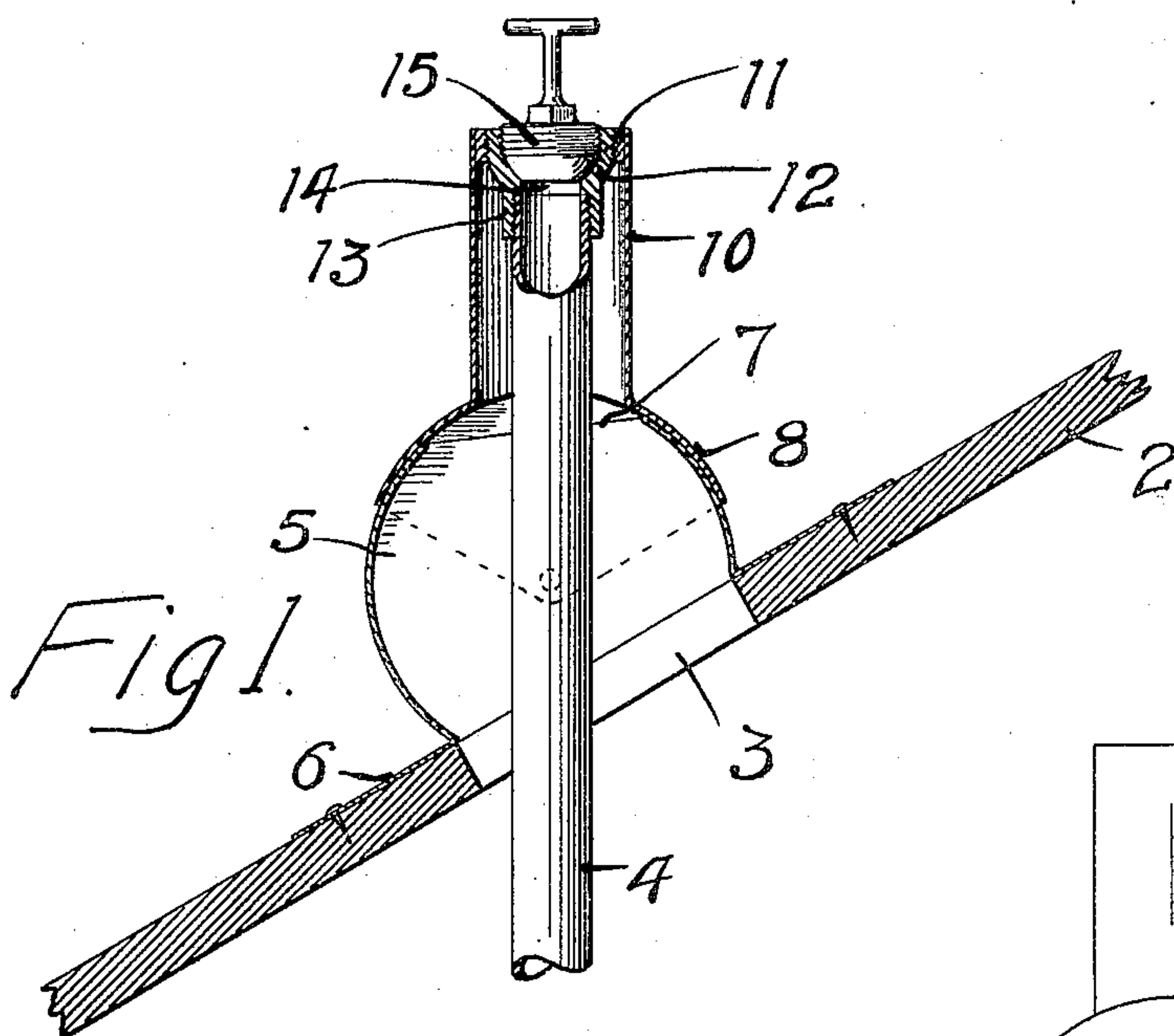


H. P. WALLACE.
WATER CLOSET VENT.
APPLICATION FILED SEPT. 23, 1907.

917,385.

Patented Apr. 6, 1909.



WITNESSES
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UNITED STATES PATENT OFFICE.

HARRY P. WALLACE, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF ONE-HALF TO AUGUSTUS J. ARCHAMBO, OF MINNEAPOLIS, MINNESOTA.

WATER-CLOSET VENT.

No. 917,385.

Specification of Letters Patent.

Patented April 6, 1909.

Application filed September 23, 1907. Serial No. 394,107.

To all whom it may concern:

Be it known that I, HARRY P. WALLACE, a citizen of the United States, and a resident of Minneapolis, county of Hennepin, and State of Minnesota, have invented certain new and useful Improvements in Water-Closet Vents, of which the following is a specification.

The object of my invention is to provide a hood for the upper end of a closet vent pipe, capable of attachment to any pitch of roof and adapted to receive a temporary plug, by means of which the pipe may be sealed during the operation of testing the system.

A further object is to provide a device which will positively prevent the entrance of sewer gas into the house from the vent pipe, and a further object is to dispense with all lead and solder joints, usually employed with devices of this kind.

The invention consists generally in the various constructions and combinations hereinafter described and set forth in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a sectional view illustrating the application of my invention to a roof. Fig. 2 is a detail view partially in section showing the device detached from the roof. Fig. 3 is a side elevation of the device and Fig. 4 is a top view.

In the drawings, 2 represents a roof board having an opening 3 through which the closet vent pipe 4 passes.

5 is a hood, preferably of sheet metal, having flanges 6 for securing it to the roof boards and provided with an opening 7 over which a hood section 8 pivoted at 9 on the side walls of the hood proper is arranged. This hood section is provided with a pipe 10 extending upwardly therefrom and adapted to register with the opening 7 in the hood and is capable of adjustment with the hood section back and forth over the opening 7 to allow it to receive the upper end of the pipe 4 and adapt the device for roofs of different pitch. An internally threaded ring 11 is provided in the upper end of the pipe 10 and a casting 12 is exteriorly threaded and fitted within said ring and has a threaded lower end 13 to receive the threaded upper end of the vent pipe 4. An opening 14 is formed in the casting 12 to register with the pipe 4. This construction allows the mounting of the hood around the upper end of the vent pipe and its connection with the said pipe without the necessity of

making lead joints and fitting the parts together and sealing them, as usually required in work of this kind.

The casting is interiorly threaded at its upper end and to test the system it is only necessary to insert a threaded plug 15 into the end of the casting, when the vent pipe will be sealed and the system may be tested with air pressure.

In Fig. 2, I have shown a modified construction, which consists in providing a hood section having a telescoping upper end 16 that is capable of moving up and down to accommodate itself to the length of the vent pipe and the upper end of the pipe instead of being threaded, is secured to the casting 17 by the lead joint 18. In other respects, the device corresponds to the hood and casting shown in Fig. 1.

This device is composed of but few parts and capable of convenient application to a vent pipe, and will enable the plumber to dispense with all lead and solder joints and at the same time will positively prevent the entrance of sewer gas from the open end of the vent pipe into the house.

I claim as my invention:

1. The combination with a roof and vent pipe projecting therethrough, of a sleeve inclosing said vent pipe and spaced therefrom, a casting fitting within the upper end of said sleeve and having a socket to receive the upper end of said vent pipe, and said casting having an opening therethrough registering with the opening in said vent pipe, and a test plug fitting within the opening in said casting and temporarily sealing the upper end of said vent pipe.

2. The combination with a roof and a vent pipe projecting therethrough, of a sleeve inclosing the upper end of said vent pipe and spaced therefrom, an interiorly threaded ring provided within said sleeve, an exteriorly threaded casting fitting within said ring and having an opening therethrough and a socket to receive the upper end of said vent pipe, and a test plug fitting within the opening in said casting, and temporarily sealing the upper end of said vent pipe for the purpose specified.

3. The combination with a roof and a vent pipe projecting therethrough, of a hood having a section inclosing said vent pipe and spaced therefrom, a sleeve also inclosing said vent pipe and having a telescopic con-

nection with said hood section, and a test plug adapted to be mounted in the upper end of said sleeve and vertically adjustable therewith to adapt the device to vent pipes of different height, substantially as described.

4. The combination with a vent pipe, of a sleeve inclosing the same, a cap for the open end of said sleeve having a hermetically sealed joint with said vent pipe and a test plug removably mounted on said cap and temporarily closing the open end of said vent pipe.

5. The combination with a roof and a vent pipe projecting therethrough, of a sleeve inclosing said vent pipe and having an adjustable connection with said roof, and a test plug adapted to be carried by said sleeve and normally close the open end of said vent pipe and vertically adjustable therewith to adapt the device to vent pipes of different height.

6. The combination, with a roof and a vent pipe, of a jacket, a sleeve mounted on said jacket and inclosing said pipe and extending to the top thereof and spaced therefrom to prevent formation of frost on said pipe, and a cap closing the space between

said pipe and sleeve and having a removable test plug above the open end of said pipe.

7. The combination, with a roof and a vent pipe projecting therethrough, of a jacket, a sleeve mounted on said jacket and arranged to oscillate thereon to adapt it to roofs of different pitch, said sleeve inclosing the upper portion of said pipe and spaced from the walls thereof to prevent formation of frost on said pipe, and a test plug carried by said cap and pipe and temporarily closing the top of said pipe, substantially as described.

8. The combination, with a roof and a vent pipe, of a sleeve inclosing the upper exposed end of said pipe and spaced from the walls thereof, and a cap closing the space between said pipe and sleeve and having a removable test plug above the open end of said pipe, substantially as described.

In witness whereof, I have hereunto set my hand this 14th day of September, 1907.

HARRY P. WALLACE.

Witnesses:

RICHARD PAUL,
J. B. BYINGTON.