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J. ZVETINA.
THAWING ATTACHMENT FOR GAS PIPES.
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Fig. 1.

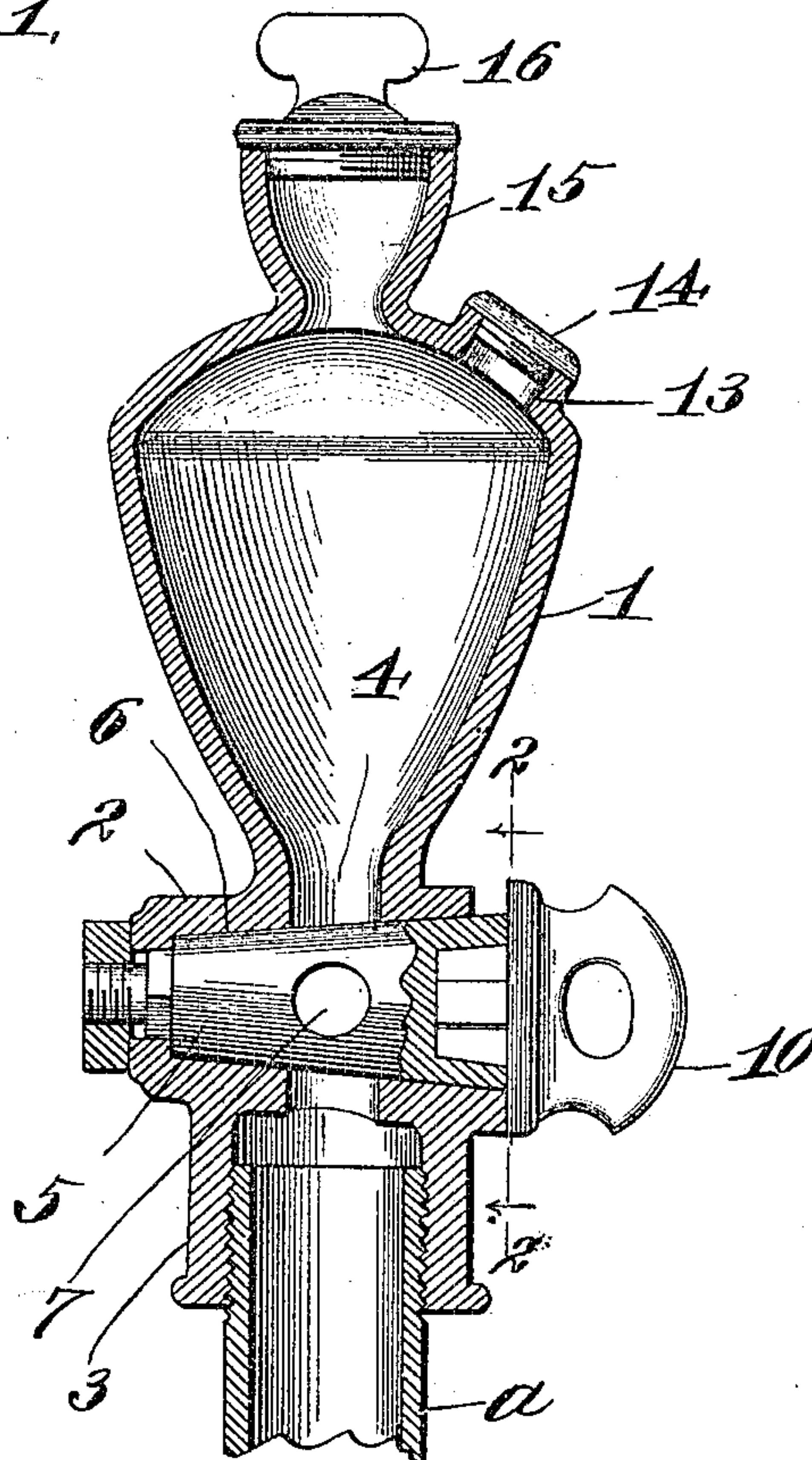
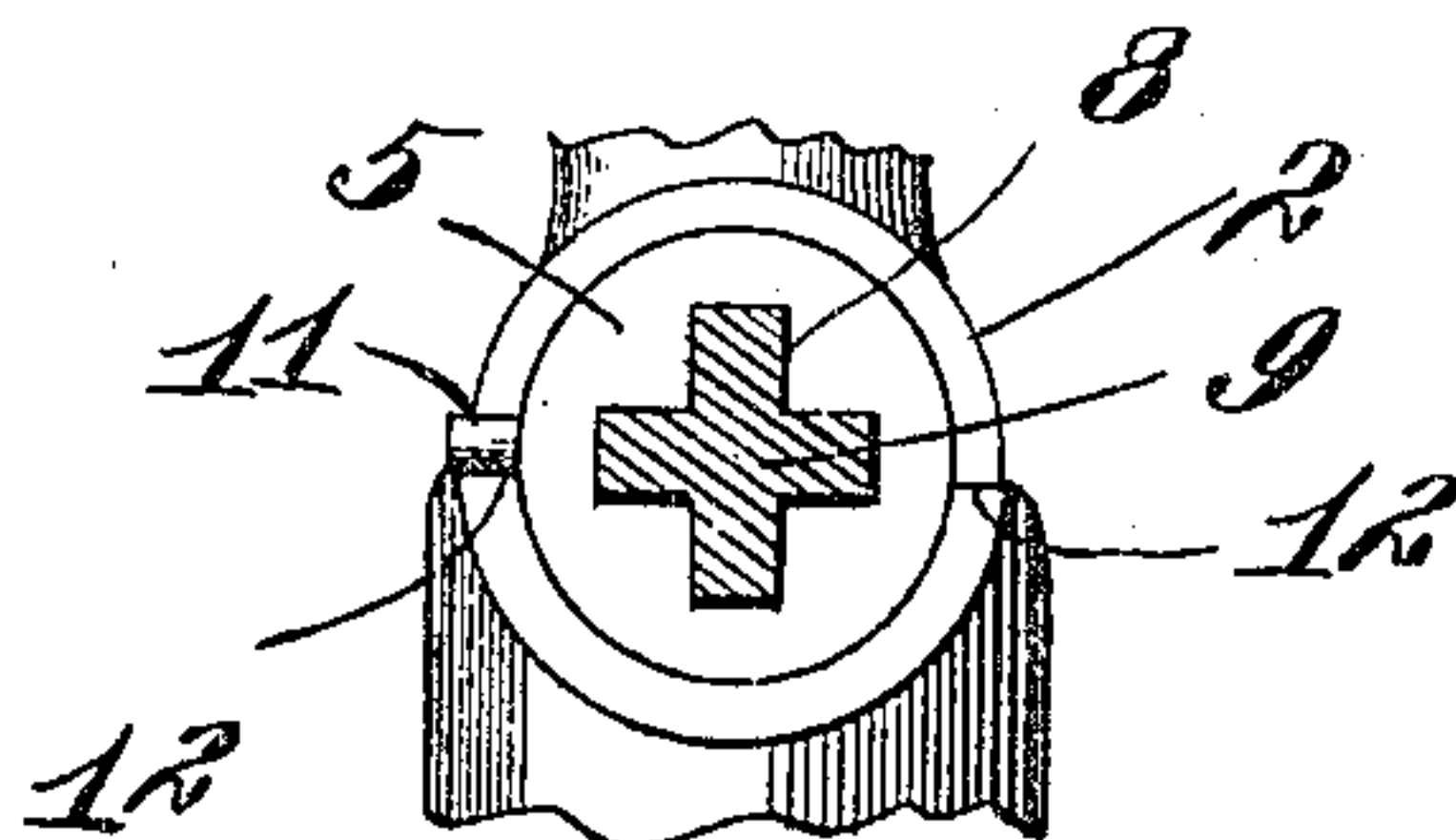


Fig. 2.



Witnesses,

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THAWING ATTACHMENT FOR GAS-PIPES.

No. 831,695.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN ZVETINA, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Thawing Attachments for Gas-Pipes, of which the following is a specification.

The object of this invention is the production of an improved device for facilitating the introduction of alcohol into gas-pipes to melt ice that has formed in said pipes.

In the accompanying drawings, Figure 1 is a vertical central section through a device embodying the features of my invention. Fig. 2 is a fragmental sectional view on dotted line 2 2 of Fig. 1.

In the production of a device of the character mentioned I provide a cup 1 of substantially ovate form having at its lower and smaller end a valve-casing 2 and a screw-threaded socket 3, formed integral with the cup, by means of which socket said cup may be attached to a gas-pipe *a* at any convenient or suitable point in the system. A duct 4 connects the interior of the cup with said socket. This duct is opened and closed by means of a tapered valve-plug 5, seated within a correspondingly-tapered chamber 6 in the valve-casing 2. The valve-plug 5 has an opening 7 extending therethrough adapted to register with the duct 4. In one end of the valve-plug 5 is formed a recess 8 of any desirable non-circular form to receive a correspondingly-shaped projection 9, formed on the end of a key 10 for turning the valve-plug. A pin 11, fixed in said valve-plug and adapted to engage either of two shoulders 12, formed upon one end of the valve-casing 2, limits the movements of said valve-plug.

Alcohol may be introduced into the cup 1 through an opening 13 in the upper end of said cup, said opening being normally closed by means of a screw-plug 14. Upon establishing communication between the cup 1

and the pipe *a* by turning the valve-plug 5 the alcohol will pass into said pipe and thence into other parts of the system. If for any reason the alcohol should not pass freely into the pipe *a*, air-pressure may be applied in any convenient way to the contents of the cup 1 through the nipple 15, formed integral with the cup, which nipple is ordinarily closed by the screw-cap 16.

The embodiment herein shown of my invention may be modified in various ways without departing from the spirit and scope of the invention, wherefore I desire to have it understood that I do not wish to limit myself to the precise details herein set forth.

I claim as my invention—

1. In a thawing attachment for gas-pipes, in combination, a cup for containing the thawing liquid, said cup having a securing-socket formed integral therewith; a valve for controlling the outlet from said cup, said cup having a filling-opening in its upper portion; a plug for closing said filling-opening; a nipple in the upper portion of said cup for applying air-pressure to the interior of said cup; and means for closing said nipple.

2. In a thawing attachment for gas-pipes, in combination, a cup for containing the thawing liquid, said cup having a valve-casing and a securing-socket formed integral therewith, said cup having a filling-opening in its upper portion; a rotatable valve member in said valve-casing for controlling the outlet from said cup; a projection on said valve member adapted to engage a shoulder on said valve-casing for limiting the rotation of said valve member; a screw-plug for closing the filling-opening in said cup; a nipple in the upper portion of said cup for applying air-pressure to the interior of said cup; and a screw-cap for closing said nipple.

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Witnesses:

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