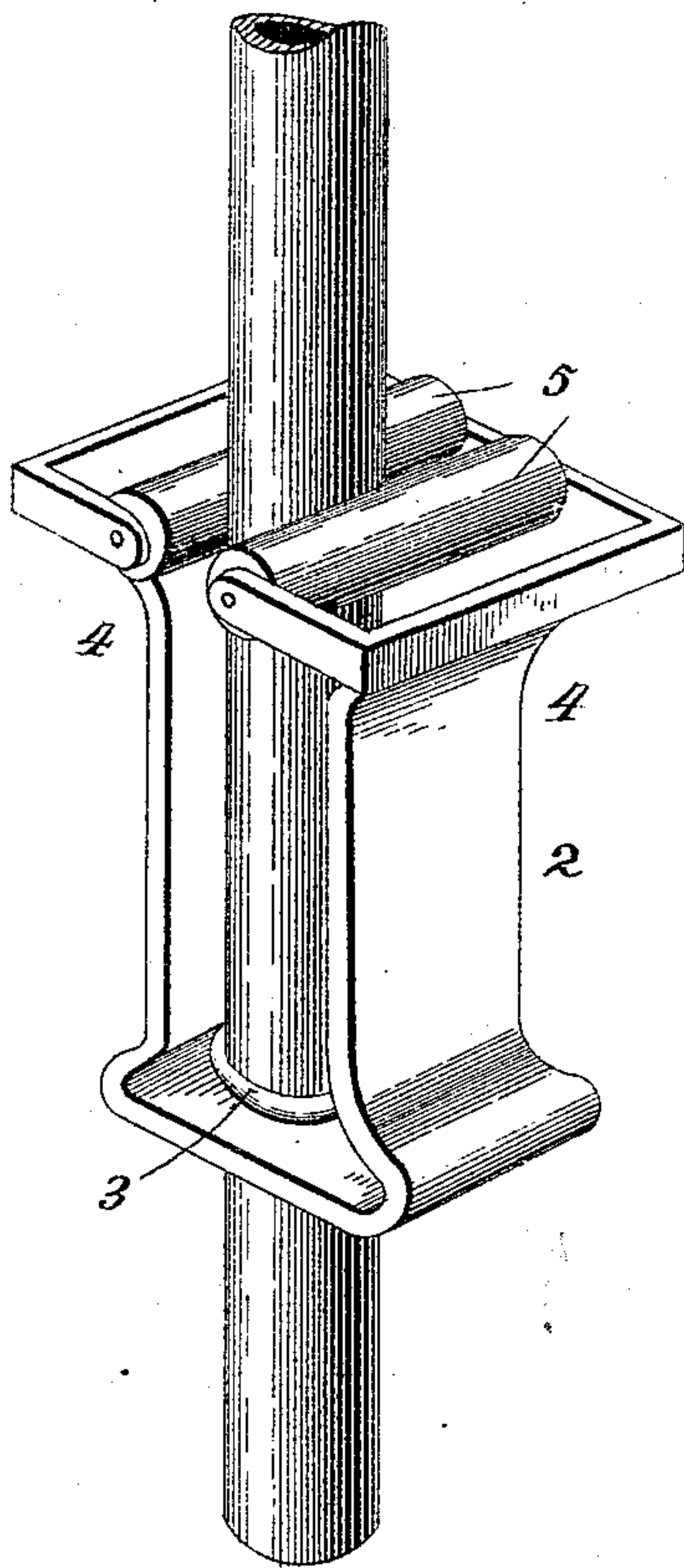


(No Model.)

A. L. DAWSON.
SIPHON STARTER.

No. 538,729.

Patented May 7, 1895.



Witnesses

Thos. L. Gatchel
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UNITED STATES PATENT OFFICE,

ARTEMAS L. DAWSON, OF NEENAH, WISCONSIN.

SIPHON-STARTER.

SPECIFICATION forming part of Letters Patent No. 538,729, dated May 7, 1895.

Application filed June 8, 1894. Serial No. 513,894. (No model.)

To all whom it may concern:

Be it known that I, ARTEMAS L. DAWSON, a citizen of the United States, and a resident of Neenah, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Siphons; 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.

My invention relates to starters for siphons.

The common method of starting a siphon to flowing, whether it be of the rigid, or flexible type, is to submerge the whole siphon so as to completely fill it with the liquid, and then, while holding the exit end tightly closed, either with the hand or in some equivalent manner, draw the siphon into position. In cases in which the liquid is harmless and inoffensive, and the siphon small, the operator often uses his mouth to suck the stream into action, but when the liquid is of injurious or poisonous nature, it is plain that this method of starting the siphon to action cannot be pursued.

It is for the purpose of avoiding the inconveniences above mentioned that the present siphon starter has been provided, and the invention consists, in a device for starting the flow without the necessity of sucking, or immersing and filling the hose, in the ways previously mentioned.

In the drawing, the figure thereof represents a perspective view of a portion of a siphon-tube, showing my improved starter applied thereto.

In using a siphon, made of small flexible rubber hose, it is found that the flow can be started quite successfully by compressing the hose between the fingers of the hand, and while thus held by sliding the fingers along the hose a sufficient vacuum is produced to

start the flow. This process is rather severe on the fingers, however, and to accomplish the same end the device shown applied in the drawing is used, which device may be termed a starter.

1 represents the siphon tube and 2 a flexible frame made of a single piece of flat spring metal having a slot 3 at the center thereof through which the siphon tube 2 passes, and rearwardly projecting substantially parallel arms 4 provided with rollers 5 at their extreme ends. In operation, the sides of the said frame are pressed inward toward the hose or tube, causing the rolls 5, to approach each other and bear firmly on the hose which is between the said rolls, completely collapsing the hose, and effectually closing it at this point. While the hose is thus closed, by moving the frame with its rolls downward along the hose, a partial vacuum will be formed in that part of the hose between the rolls and the liquid. The pressure of the atmosphere will force the liquid into this exhausted part of the hose, and, upon releasing the pressure on the hose, the stream will flow.

Having thus described the invention, what is claimed as new is—

A starter for a siphon consisting of a flexible frame made of a single piece of flat spring metal, having a slot through the center thereof for the passage of the siphon tube, and having rearwardly projecting substantially parallel arms provided with rollers at their extreme ends, substantially as and for the purpose described.

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

ARTEMAS L. DAWSON.

Witnesses:

T. B. BLAIR,

WILLIAM WILLIAMS.