

(No Model.)

C. M. JACOBY.
SPRAY ATTACHMENT FOR BROOMS.

No. 412,092.

Patented Oct. 1, 1889.

Fig. II.

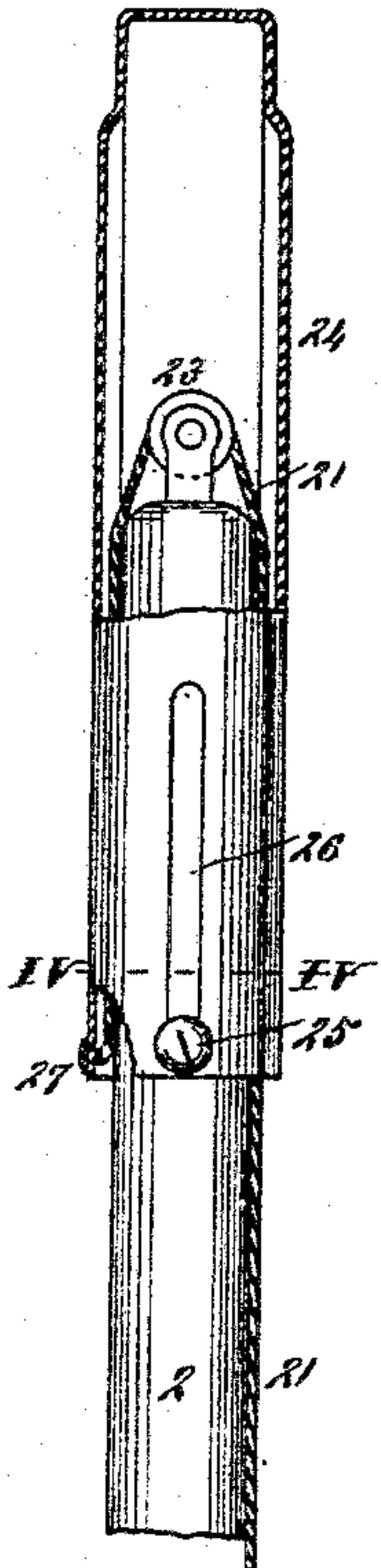


Fig. III.

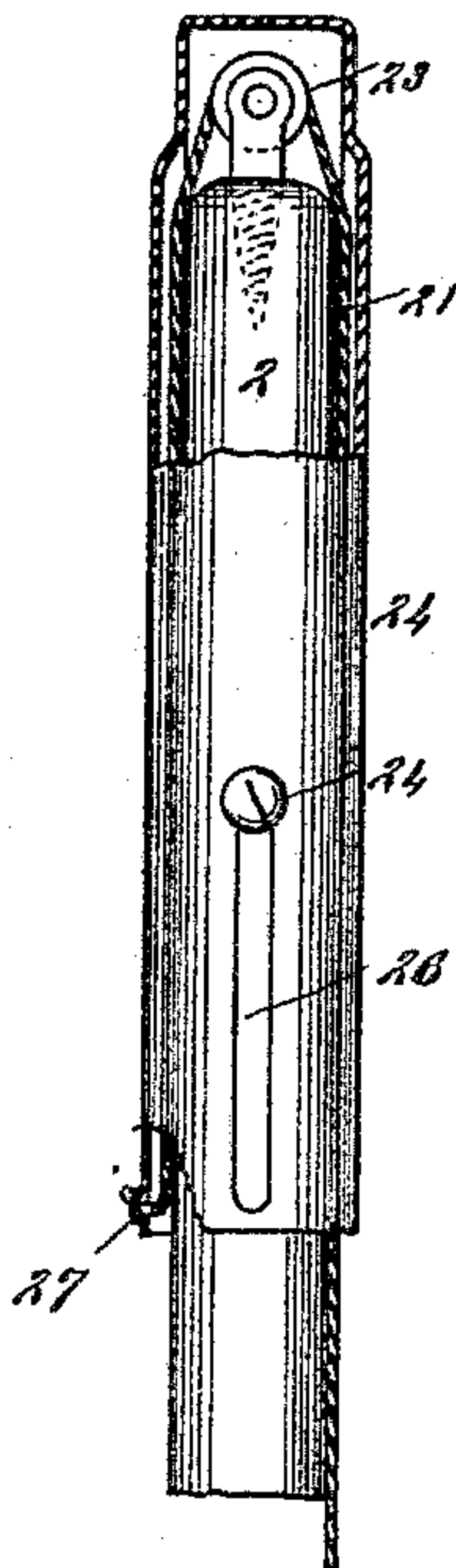


Fig. IV.

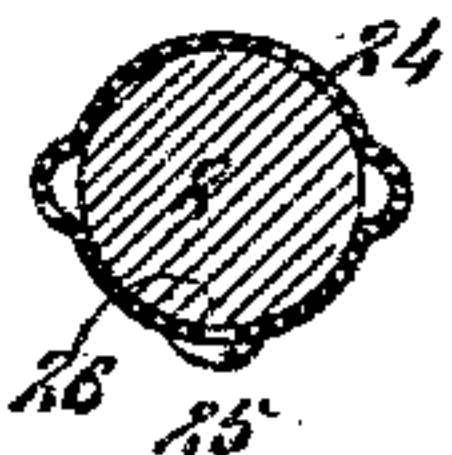


Fig. V.

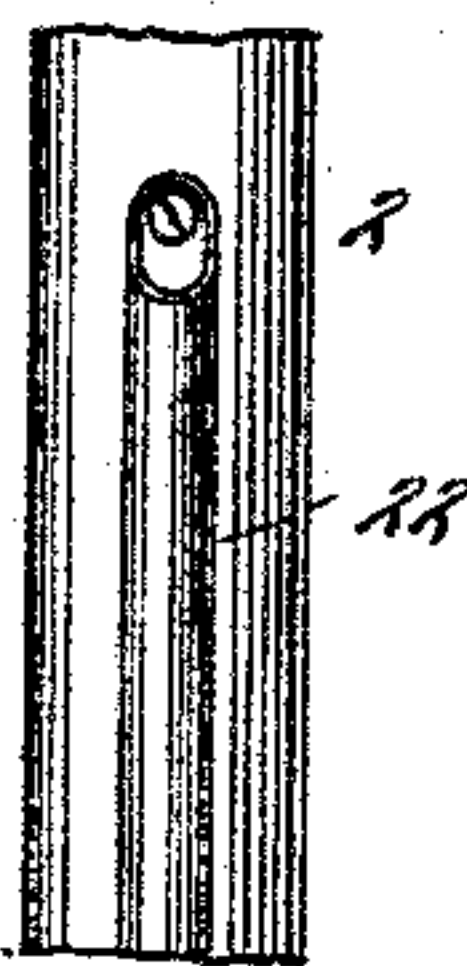


Fig. I.

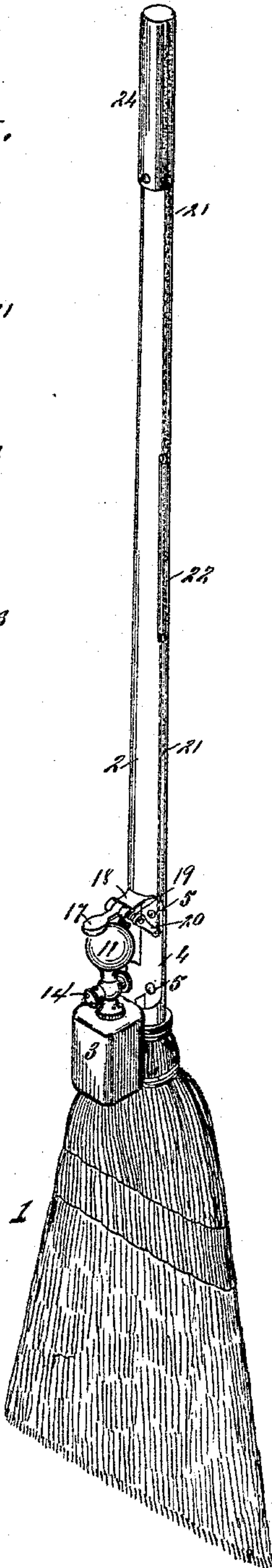


Fig. VI.

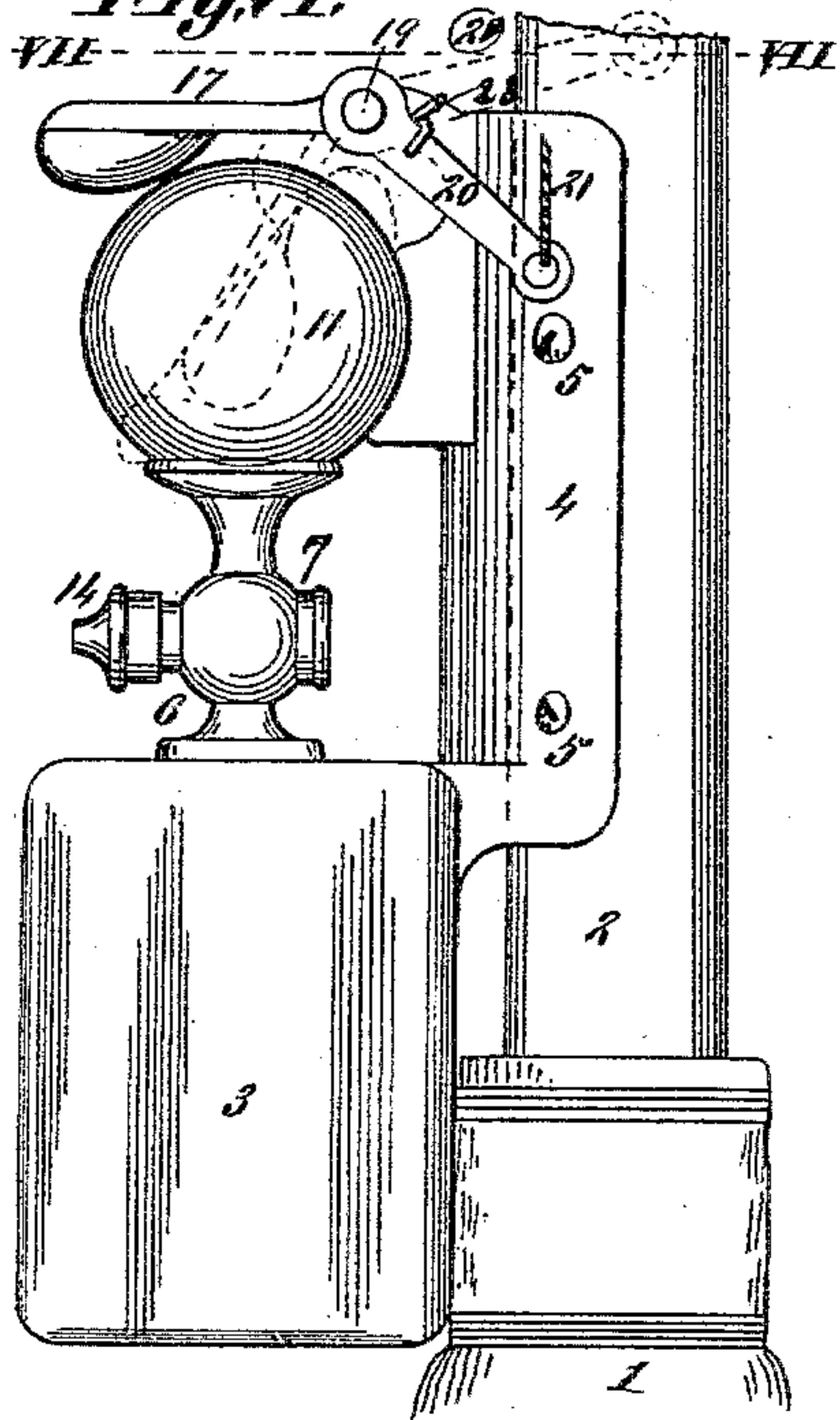


Fig. VII.

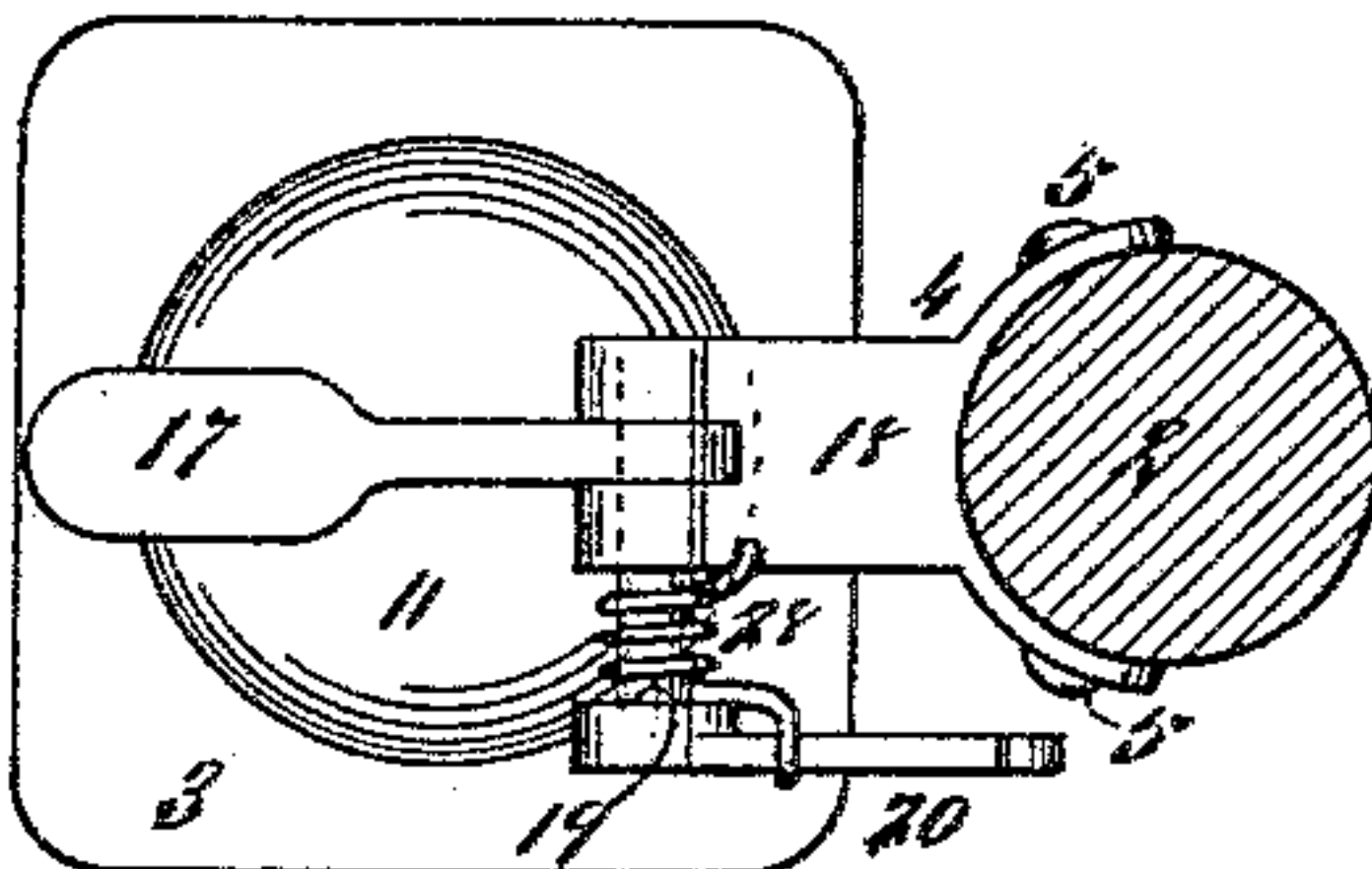
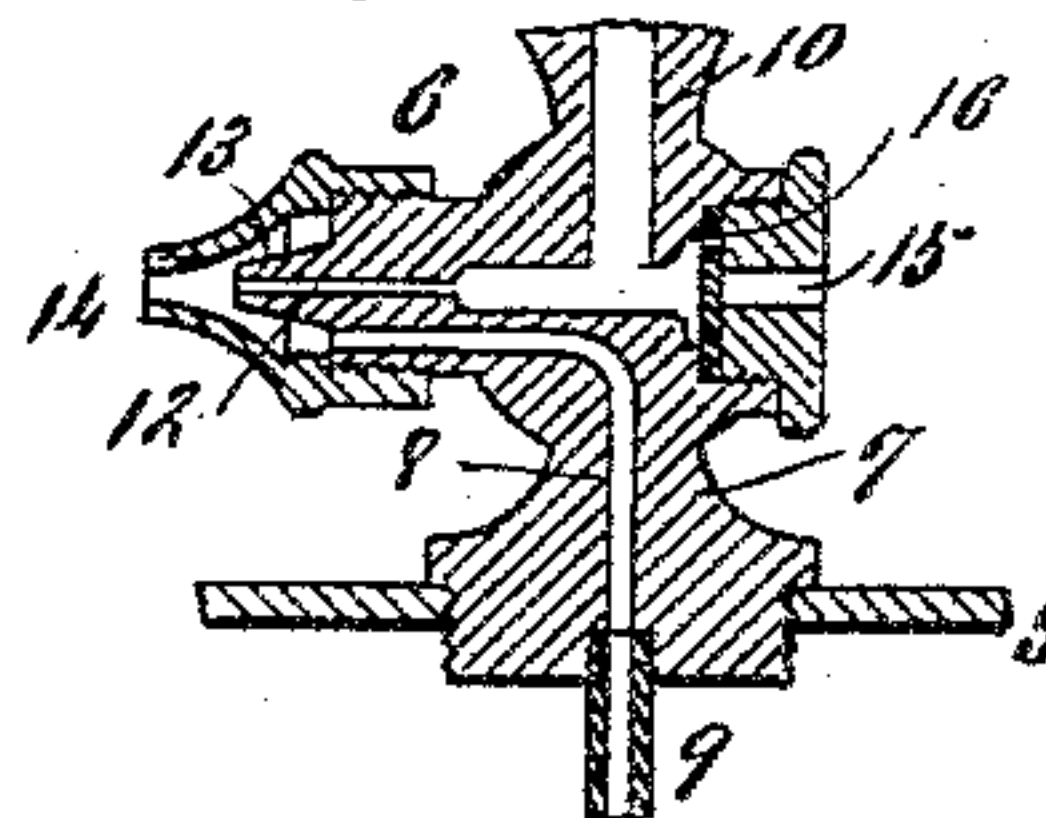


Fig. VIII.



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CORNELIA M. JACOBY, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO
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SPRAY ATTACHMENT FOR BROOMS.

SPECIFICATION forming part of Letters Patent No. 412,092, dated October 1, 1889.

Application filed May 29, 1888. Serial No. 275,432. (No model.)

To all whom it may concern:

Be it known that I, CORNELIA M. JACOBY, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Spray Attachments for Brooms, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure I is a perspective view illustrating my improvement. Fig. II is an enlarged detail view showing the sleeve on the upper end of the handle in its raised position and showing it partly in section. Fig. III is a similar view with the sleeve in its lowered position. Fig. IV is a transverse section taken on line IV IV, Fig. II. Fig. V is an enlarged detail view showing the tube secured to the handle and through which the connecting wire or cord passes. Fig. VI is an enlarged detail view of the aspirator. Fig. VII is a transverse section through the handle, taken on line VII VII, Fig. VI, and showing the aspirator in top view. Fig. VIII is an enlarged vertical section through the nozzle or jet of the aspirator.

My invention relates to an improved spray attachment for brooms; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, 1 represents the broom, having a handle 2.

3 represents the water-fount of an aspirator secured to the handle by means of a suitable fastening device, which in the form I have shown consists of a plate 4, secured to the handle by means of tacks or screws 5. This form of attachment may, however, be changed or varied. The fount is provided on its upper end with a jet or nozzle 6, consisting of a plug or body 7, having a port 8, through which the water passes out of the fount and with which communicates a pipe 9, that extends downward into the fount. (See Fig. VIII.) The plug also has an air-port 10, which communicates at the top with a compressible bulb 11 and which communicates at the bottom with a port 12 in a point 13, that extends beyond the end of the port 8. Surrounding the point 13 is a hollow cap 14. Extending back of the port 12 is a port 15, in which is located a valve 16, opening inwardly to allow an inlet of air

and prevent its escape. Located over the bulb 11 is a presser or arm 17, pivoted, preferably, to an extension 18 by means of a rod or shaft 19, to which is also secured at one end a lever or crank 20. Connected to the free end of the crank 20 is a wire or cord 21, which passes upward through a tube 22, secured to the handle and extending still upward over a pulley or roller 23, secured to the upper end of the handle, and from thence the cord passes downwardly and is secured to the lower end of a sleeve 24, that fits over the upper end of the handle of the broom, and which is capable of being moved up and down thereon from the position shown in Fig. III to the position shown in Fig. II. It is limited in this movement by means of a screw 25, fitting in a slot 26 of the sleeve. The cord or wire is secured to the sleeve at 27.

28 (see Figs. VI and VII) illustrates a spring surrounding the shaft 19 and which acts to raise the presser or arm 17 after it has been lowered to compress the bulb.

The operation is as follows: A person takes hold of the broom after the usual manner, one hand grasping the sleeve 24 and the other hand the handle at the tube 22, and in the act of sweeping the natural movement causes the sleeve 24 to be raised and lowered on the handle. This lowering of the sleeve causes the presser or arm 17 to be lowered upon and compress the bulb 11, and as the sleeve 24 is moved back the spring 28 returns the arm 17 and the bulb automatically expands. As the bulb is compressed the air therein is forced through the ports 10 and 12 and through the cap 14, and in doing so draws the water from the fount through the pipe 9 and port 8 and causes it to issue from the cap 14 in a fine spray, which coming in contact with the dust raised by the sweeping acts to arrest and settle it. As the bulb opens or expands after being compressed the air enters through the valve 16.

With this improved device a constant spray of water is ejected from the broom by the natural and simple act of sweeping, which acts, as stated, to arrest and settle the dust.

I claim as my invention—

1. In combination with a broom, an aspirator secured to the broom and having a nozzle directed away from the broom, and a

presser for working the aspirator, substantially as and for the purpose set forth.

2. In combination with a broom, an aspirator secured to the broom, and a movable sleeve secured to the upper end of the broom, having means for operating the aspirator in the act of using the broom, substantially as and for the purpose set forth.

3. The combination of a broom, an aspirator secured to the broom, a movable arm for compressing the bulb of the aspirator, a movable sleeve located on the handle, and means of connection between the sleeve and arm, substantially as and for the purpose set forth.

4. The combination of a broom, an aspirator secured to the broom, a spring-retracted arm located over the bulb of the aspirator, a sleeve movably secured to the broom, and means of connection between the arm and the sleeve, substantially as and for the purpose set forth.

5. The combination of a broom, an aspirator secured to the broom, a movable arm located over the bulb of the aspirator, a sleeve movably secured to the broom, the means of connection between the sleeve and arm, and a pulley secured to the broom and over which

the connection passes, substantially as and for the purpose set forth.

6. The combination of a broom, an aspirator secured to the broom, a spring-retracted arm located over the bulb of the aspirator, a lever connected to the arm, a cord secured to the lever, a pulley on the upper end of the broom-handle over which the cord passes, and a movable sleeve fitting over the upper end of the handle and to which the cord is secured, and which has a slot-and-screw connection with the handle, substantially as and for the purpose set forth.

7. The combination of the broom, an aspirator secured to the broom, a presser secured to the broom over the bulb of the aspirator, a lever connected to the presser by means of a rod, a cord connected to the lever, tube 22, secured to the handle of the broom and through which the cord passes, and a movable sleeve fitting over the upper end of the handle and to which the cord is connected, substantially as and for the purpose set forth.

CORNELIA M. JACOBY.

In presence of—

GEO. H. KNIGHT,
JOS. WAHLE.