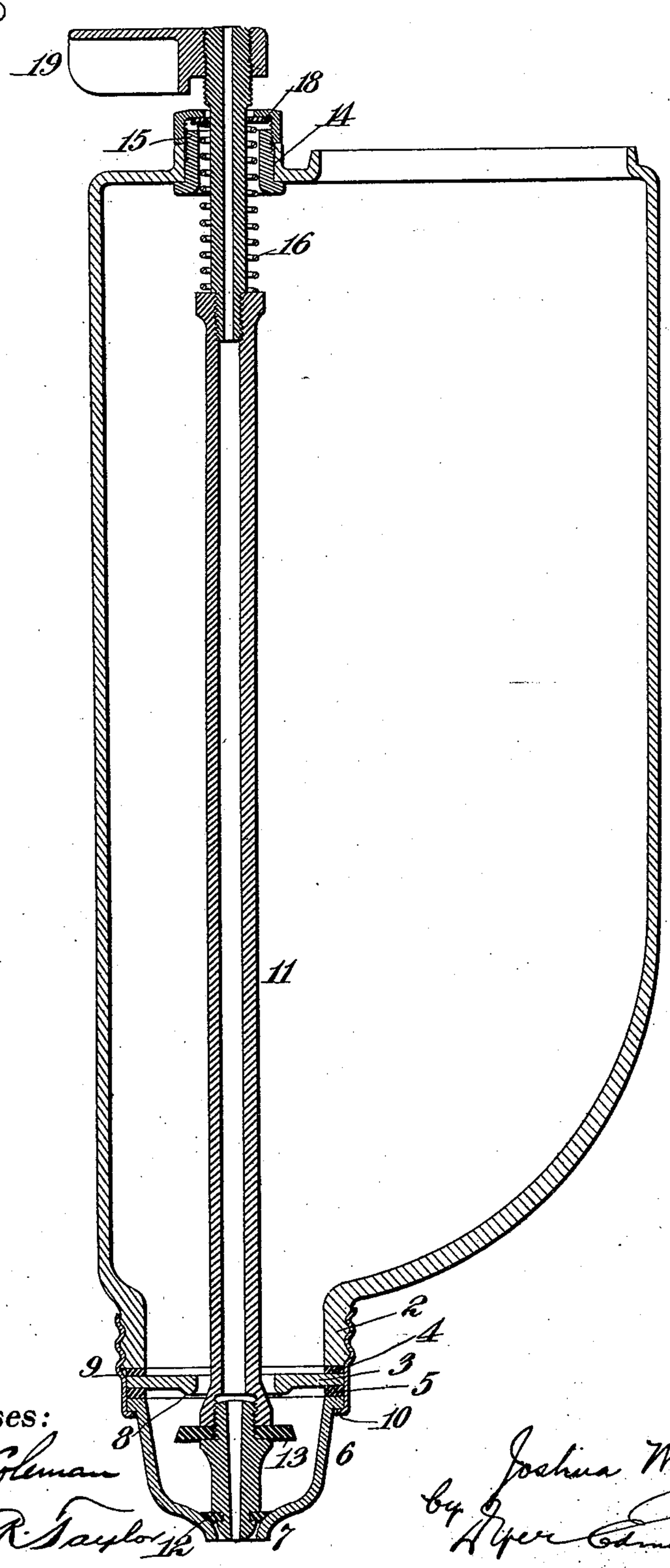
No. 677,815. Patented July 2, 1901.

J. W. SUTTON.

SYRUP JAR.

(Application filed Nov. 30, 1900.)

(No Model.)



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UNITED STATES PATENT OFFICE.

JOSHUA W. SUTTON, OF BROOKLYN, NEW YORK, ASSIGNOR TO THE AMERICAN SODA FOUNTAIN COMPANY, OF BOSTON, MASSACHUSETTS.

SYRUP-JAR.

SPECIFICATION forming part of Letters Patent No. 677,815, dated July 2, 1901.

Application filed November 30, 1900. Serial No. 38,103. (No model.)

To all whom it may concern:

Be it known that I, JOSHUA WEEKS SUTTON, a citizen of the United States, residing in the borough of Brooklyn, in the city and State of New York, have invented a certain new and useful Improvement in Syrup-Jars, of which the following is a specification.

My invention relates to various new and useful improvements in syrup-jars for use particularly in connection with soda-water fountains; and the invention specifically relates to syrup-jars provided with measuring-chambers at their lower ends, by means of which a definite quantity of syrup may be withdrawn at each operation from the jar.

The object of my invention is to provide a syrup-jar of this type which can be cheaply manufactured, which will be efficient in use, and the parts of which can be readily separated and detached for cleaning and repair.

In order that the invention may be better understood, attention is directed to the accompanying drawing, showing a sectional view of the improved syrup-jar.

The jar 1 is of the usual form and is ordinarily made of glass or other vitreous material. At its lower end it is provided with a screw-threaded neck 2.

3 represents a disk, preferably of glass, which forms the top of the measuring-chamber, and between said disk and the lower end of the threaded neck 2 is interposed an elastic packing-ring 4. Beneath the disk 3 is an elastic packing-ring 5, and engaging said ring is the upper edge of the body 6 of the measuring-chamber, made also preferably of glass and having a contracted outlet 7, forming a tapered seat above it. The disk 3 is formed on its lower edge with a seat 8, as shown.

9 represents a cap having a bottom flange which engages beneath a rim 10, formed on the body of the measuring-chamber, which cap engages the threaded neck 2, so that when tightened it will hold all the parts firmly together with tight joints. By removing the cap the several parts forming the measuring-chamber can be disassembled for cleaning or repair.

11 represents a vertically-movable operating-rod made, preferably, of hard rubber, of hollow sections screw-threaded together for convenience in manufacture and assembling. Near its lower end the operating-rod is provided with an elastic disk 12, which normally makes a tight joint with the lower end of the measuring-chamber to prevent the liquid therein from escaping through the orifice 7. Said rod is also provided with an elastic ring 13, which engages the seat 8 when the rod is elevated, whereby liquid is prevented from entering the measuring-chamber from the jar 1, while the liquid in the measuring-chamber will be permitted to escape through the opening 7. The rod is mounted and operated in any suitable way. Preferably the jar 1 is provided near its top with an opening 14, through which the rod extends, and mounted in said opening is a two-part coupling 15, the upper part of said coupling forming a bearing for the rod 11. A spring 16 presses between a shoulder on said rod and a washer 18 to normally depress the rod and engage the valve 12 with its seat. An arm 19 may be screwed onto the upper end of the rod 11 for operating said rod in the usual way.

In operation the parts will be normally in the position shown in the drawing, the valve 13 being withdrawn from its seat and the valve 12 being seated, whereby the syrup from the jar 1 may enter the measuring-chamber to fill the latter. When the arm 19 is elevated to raise the rod 11 against the tension of the spring 16, the valve 13 will close upon the seat 8 and the valve 12 will open to permit the syrup within the measuring-chamber to flow out through the opening 7 thereof.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows:

In a syrup-jar, the combination of a jar provided with a threaded neck at the lower end thereof, a packed disk engaging the lower end of said neck, a packed measuring-chamber body engaging said disk, a clamping-ring for clamping the disk and body in position upon said neck, and valves controlling the admission and exit of syrup to and from the measuring-body, substantially as set forth.

This specification signed and witnessed this 23d day of November, 1900.

JOSHUA W. SUTTON.

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