

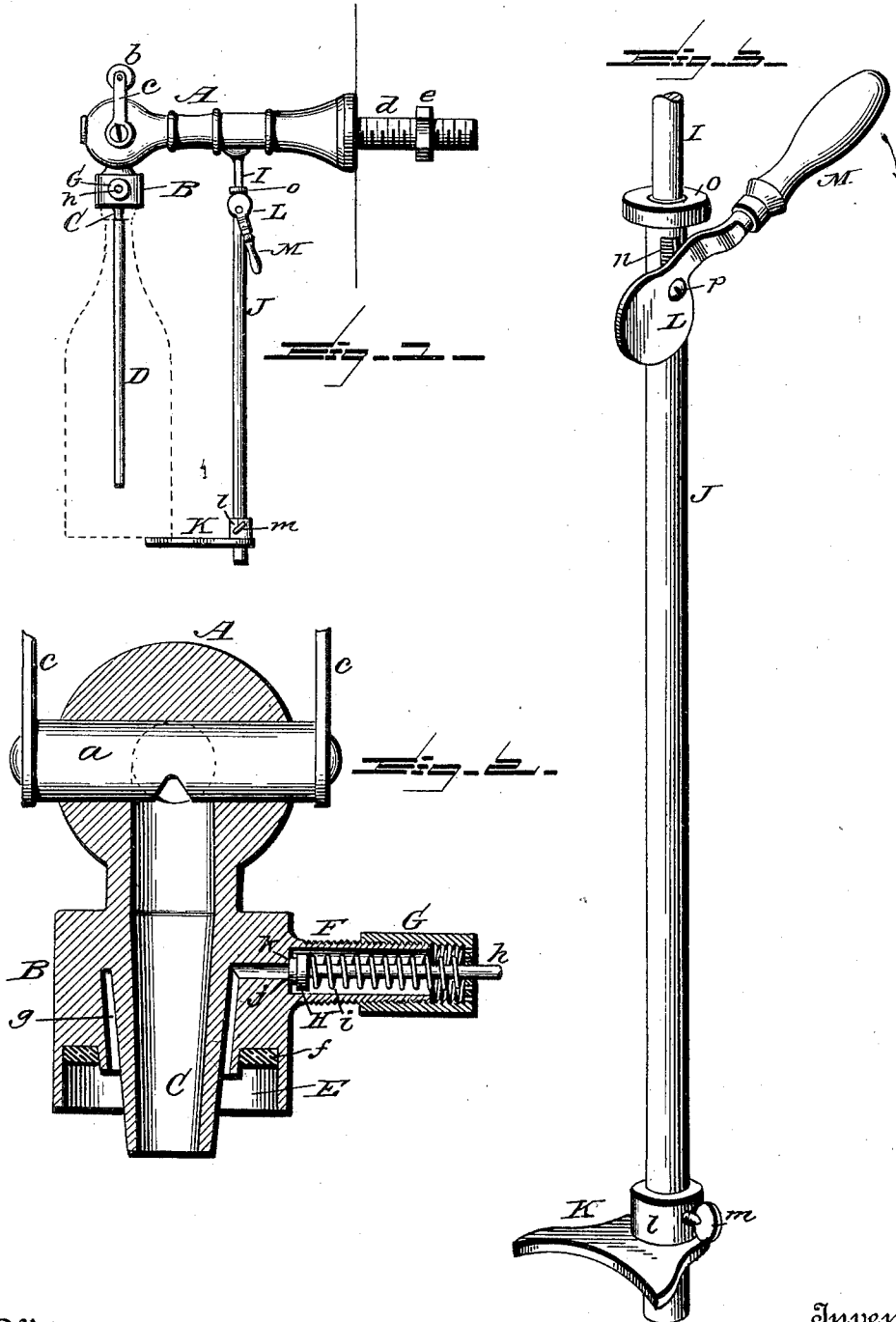
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Patented May 21, 1901.

D. WISER.
BOTTLE FILLING MACHINE.

(Application filed Mar. 25, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

DAVID WISER, OF SOUTH BEND, INDIANA, ASSIGNOR OF ONE-HALF TO
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BOTTLE-FILLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 674,849, dated May 21, 1901.

Application filed March 25, 1901. Serial No. 52,783. (No model.)

To all whom it may concern:

Be it known that I, DAVID WISER, a citizen of the United States, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Bottle-Filling Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has for its object to provide a simple and effective bottle-filling device in which the beer or other liquid is supplied to the bottle direct from the barrel or keg through the faucet connecting therewith; and it consists in a device constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a side elevation of a bottle-filling device constructed in accordance with my invention; Fig. 2, a sectional elevation, on an enlarged scale, of the outer end of the faucet and its connections; Fig. 3, a detail perspective view, on an enlarged scale, of the bottle-supporting device.

In the accompanying drawings, A represents the faucet, which may be of any preferred construction, with a valve-plug *a* and handle *b* connected thereto by the arms *c*; also, a screw-shank *d* and nut *e* for connecting it to the keg or barrel or other receptacle or vessel holding the liquid. I have shown and described one of many forms of faucets that may be used, and I do not therefore wish to be limited to any special form or construction of faucet, as any change or modification therein may be made without departing from the spirit of my invention.

The faucet A is provided with a downwardly-extending head B, having a suitable nozzle C, preferably tapering for convenience in attaching a rubber tube D, as shown in Fig. 1 of the drawings, when it is found desirable to use a tube. The head B is formed with a socket E, with an elastic cushion *f* to receive the mouth of the bottle when being filled, an air-space *g* surrounding the upper portion of the nozzle and communicating with the valve-chamber F. This valve-chamber is screw-threaded upon its exterior to receive

an adjustable cap G, which is perforated at its outer end to allow the escape of the air passing into the chamber from the bottle as it is being filled. A spring-actuated valve is located in the chamber F, and comprises the rubber-faced valve H, the valve-stem *h*, and the spiral spring *i*, coiled around said stem and having its ends bearing against the valve and the perforated end of the adjustable cap G. The adjustability of the cap G enables the coils of the spring *i* to be compressed or expanded to regulate the action of the valve, so that it will open by greater or less pressure of the outflowing air.

Any suitable spring-actuated valve may be substituted for that shown, the position of the valve when closed being shown in Fig. 2 of the drawings, the rubber face *j* of the valve being against the seat *k*.

A depending guide-rod I is connected to the faucet A to receive the tubular rod J, which has at its lower end an adjustable support K for the bottom of the bottle, said support having a collar *l* and set-screw *m*, by which said support may be held in its adjusted position. The upper end of the tubular rod J has an elongated slot *n* and a bearing-head *o*, and a cam L is pivotally connected to the rod I by means of a screw or pin *p*, which extends through the cam and the slot and engages the rod, as shown in Fig. 3 of the drawings. After the bottle is in place, with its mouth engaging the socket E and the support K adjusted on the tubular rod J to bring it in contact with the bottom of the bottle, the cam L, which is provided with a suitable handle M, is brought in contact with the bearing-head *o*. This action of the cam L against the bearing-head *o* will elevate the tubular rod J, and with it the support K, and force the mouth of the bottle tightly against the cushion or packing *f*, and thereby prevent the air from entering the bottle while being filled, but allowing it to escape through the air-space *g*, the pressure of the outgoing air against the valve H opening the same and admitting of the air passing out through the perforations in the end of the adjustable cap G.

It is evident that many changes and modifications may be made in the details of construction without in any manner affecting the

successful operation of the device, and any such changes as would come within ordinary mechanical judgment may be resorted to without departing from the principle of the invention—such, for instance, as the faucet, which may be of any of the ordinary forms, as may also the spring-actuated valve, as well as the cam device and the support for the bottom of the bottle, these features in themselves being subject to various modifications and still retain their effectiveness in a bottle-filling device of the character herein described.

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

1. A bottle-filling device comprising a suitable faucet provided with means for receiving the mouth of the bottle, and a stationary guide-rod and a tubular and slotted rod adjustable on the guide-rod, a bearing-head and a suitable support upon the upper and lower ends of the tubular rod respectively, and a

cam device pivotally connected to the guide-rod, the pivot-pin thereof extending through the slot of said guide-rod, substantially as and for the purpose set forth.

2. A bottle-filling device comprising a suitable faucet having a suitable head for connecting the mouth of the bottle thereto, a spring-actuated valve to allow the escape of the air from the bottle as it is being filled, a guide-rod depending from the faucet, a tubular rod movable thereon, a bearing-head and an adjustable support upon the upper and lower ends of the tubular rod respectively, and a pivoted cam upon the guide-rod, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DAVID WISER.

Witnesses:

I. JACOBS,
IDEN S. ROMIG.