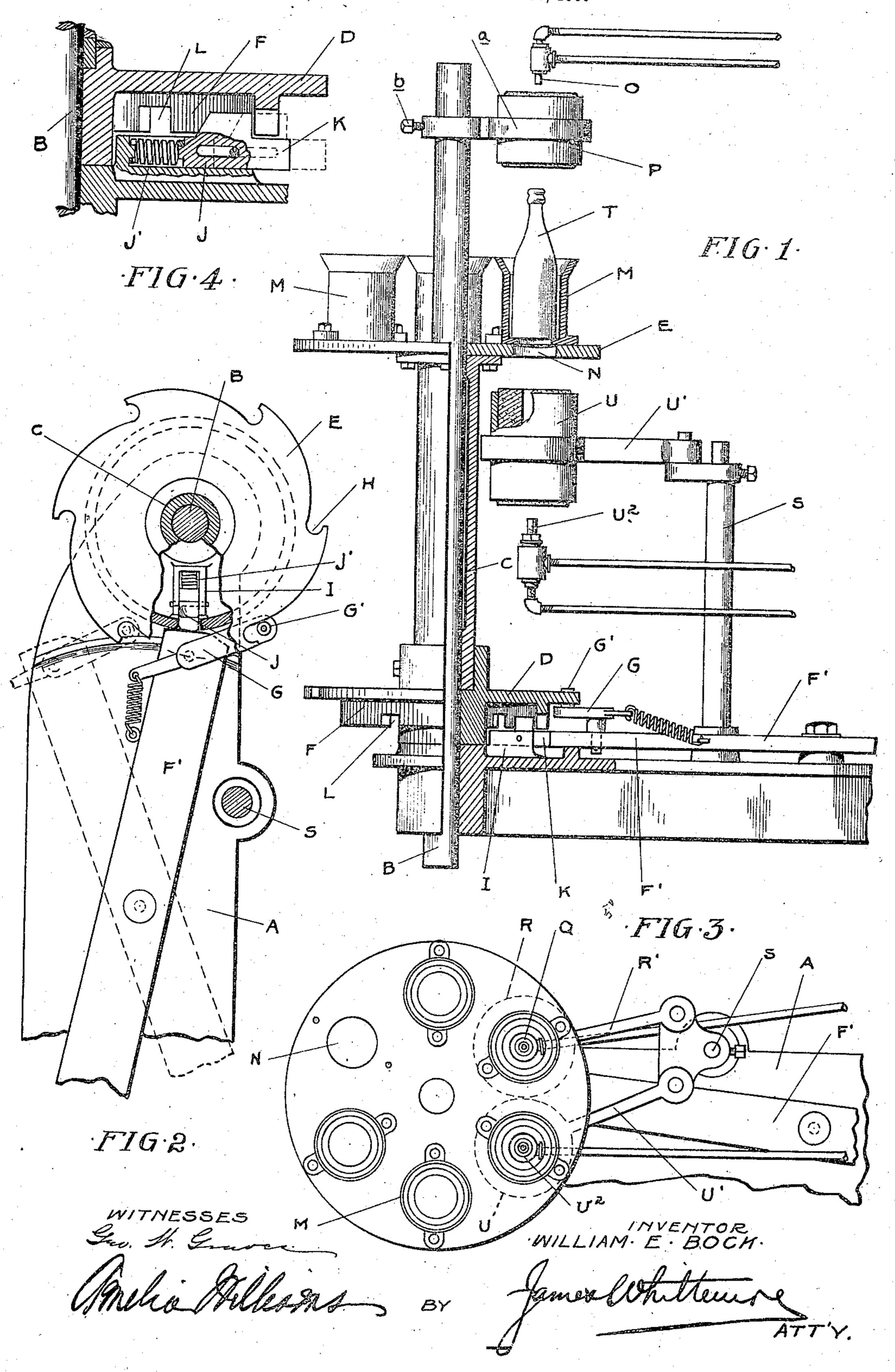
W. E. BOCK.
FIRE POLISHING MACHINE.
APPLICATION FILED JUNE 30, 1905



UNITED STATES PATENT OFFICE.

WILLIAM EMIL BOCK, OF TOLEDO, OHIO, ASSIGNOR TO THE TOLEDO GLASS COMPANY, OF TOLEDO, OHIO, A CORPORATION OF OHIO.

FIRE-POLISHING MACHINE.

No. 854,793.

Specification of Letters Patent.

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and State of Ohio, a citizen of the United not shown. 5 States, have invented certain new and useful The table E is provided with a series of drawings.

The invention relates to new and useful improvements in fire-finishing machines, and which is directed through the brick-lined 65 consists particularly in the construction of a sleeve P downward upon the article in the machine embodying a traveling ware holder holder beneath. This nozzle and brick lined with a furnace or burner above and below, so 'sleeve form in effect what is known in the 15 that both ends of the article may be fire-fin- | glass art as a glory-hole burner. The sleeve ished simultaneously, and in such a device with a double burner below and a single is secured by clamping bolts b upon the post burner above, and further in the construction, B at any desired point. arrangement and combination of the various

tion; Fig. 2 is a horizontal section showing I have shown the device as supplied with a the base and the ratchet wheel in plan, the bottle T, which is to be fire-finished at both 25 ratchet wheel being broken away to illustrate ends. the lock; Fig. 3 is a top plan view of the ma- In the manufacture of bottles in connec- 80

construction of lock. standard is the sleeve C, to the lower end of which is secured the ratchet wheel D, and to the upper end of which is secured the table 35 E. The under side of the ratchet wheel is The table is moved so that one of the hold-40 H of the ratchet wheel. Beneath the ratchet! flames at the aperture N. wheel is a guide I, in which is slidingly se- Each bottle is subjected to the action of 95 45 flange, which is adapted to be struck by the end of the lever F' to unlock it, when in the position shown in full lines in Fig. 2, and which when the lever is drawn out of the path of the extension K will permit the spring J' 50 to first press the bolt against the inner edge of the flange and when the wheel is turned so

that one of the notches L is opposite the bolt

will be projected therein and lock the ratchet

wheel and the table until the lever is again

To all whom it may concern. reciprocated back to the position shown in 55 Be it known that I, William Emil Bock, full lines in Fig. 2. This lever F' may be residing at Toledo, in the county of Lucas rocked upon its pivot by any suitable means,

Improvements in Fire-Finishing Machines, holders, M, arranged concentrically thereon, 60 of which the following is a specification, refer- and the table is provided with an aperture N ence being had therein to the accompanying beneath each holder. Above the table is a nozzle O, adapted to be supplied with air and gas and forming a burner, the flame from P is supported by a suitable bracket a, which 70

Below the table is another nozzle Q, and 20 parts, as more fully hereinafter described. brick-lined sleeves R, supported upon the In the drawings, Figure 1 is a side eleva- brackets R', which in turn is supported on 75 tion of my improved machine, partly in sec- the post S projecting upwardly from the base.

chine; Fig. 4 is a vertical section through the tion with such a machine as the Owens bottle ratchet wheel and the base to illustrate the machine there is a mark produced on the bottom of the bottle by the cut-off operating A represents the base, upon which is the across the bottom of the blank mold and post or standard B. Journaled about this gathering the glass, and it is desirable there- 85 fore to fire-finish the bottom, particularly in the middle portion thereof, and also to firefinish the top:

the notched flange F. Pivoted on the base | ers M is between the two sleeves P and R and 90 is the rocking lever F', at the end of which is thus the burners will direct the flames through the pivoted spring-actuated pawl G having at these sleeves upon the top and bottom of the roller wrist G' adapted to engage the notches bottle, the bottom being exposed to the

cured the bolt J, normally held outward by the fire-finishing furnace at both ends during the tension of the spring J'. This bolt has the time that the table stands still between an actuating extension K below the notched | the intermittent rotary movement imparted thereto by the lever F' and its pawl G, and at each stopping point the table is held locked 100 by the bolts as before described.

Inasmuch as it is desirable to fire-finish the bottle for a longer period of time on the bottom than at the top, I preferably provide a second sleeve U, supported on the bracket U' 105 from the post S, and provided with nozzle U2 so that either before the bottom reaches the point where the fire-finishing takes place for

the top the bottom will be partially fire-finished, or it may be after the bottom has left
the point where it is acted on by the upper
burner. In this way the fire-finishing operation is given a double period of time for the
bottom as compared to the top. If necessary, more of these burners may be applied,
so that the bottle may be fire-finished at two
or three of the stopping points if desired.

What I claim is:—

1. A fire-finishing machine comprising a base, an intermittently rotating apertured table thereon, holders at the apertures, furnaces or burners above and below the table at a stopping point of the holders, and a scorol ond furnace or burner at an adjacent stopping point below the table.

2. In a fire-finishing machine, the combination of a base, a post thereon, a sleeve journaled about the post, a ware-carrier table at

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the top of the sleeve, a ratchet wheel at the base, a lock for the ratchet wheel, means for actuating the ratchet wheel, and for locking the parts between movements, and for withdrawing the lock before each actuation.

3. In a fire-finishing machine the combination of a base, a post thereon, a sleeve journaled about the post, a ware-carrier table at the top of the sleeve, a ratchet wheel at the base, a lock for the table, a rocking lever, a spring pawl on the lever adapted to engage the ratchet wheel; and means for unlocking the wheel by the lever at each operation, and locking it between operations.

In testimony whereof I affix my signature 35

in presence of two witnesses.
WILLIAM EMIL BOCK.

Witnesses:

LLOYD T. WILLIAMS, WM. S. WALBRIDGE.