No. 680,972. Patented Aug. 20, 1901.

C. S. GOODING & F. HAUSMANN.

BOTTLE LABELING MACHINE.

(Application filed June 24, 1897.)

(No Model.)

3 Sheets—Sheet 1.

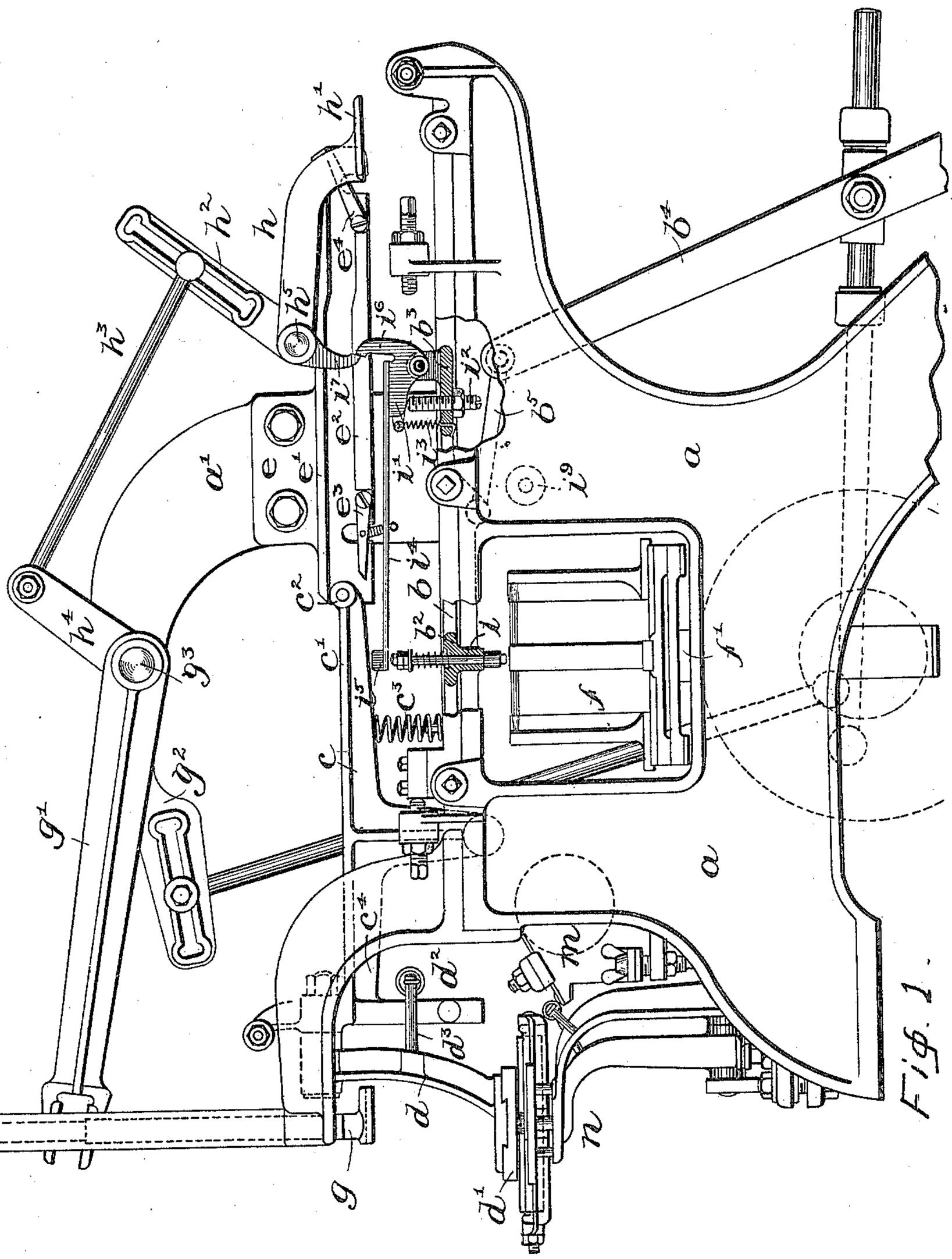

Fig. 1.

WITNESSES—
A. D. Harrison
P. W. Pezzetti.

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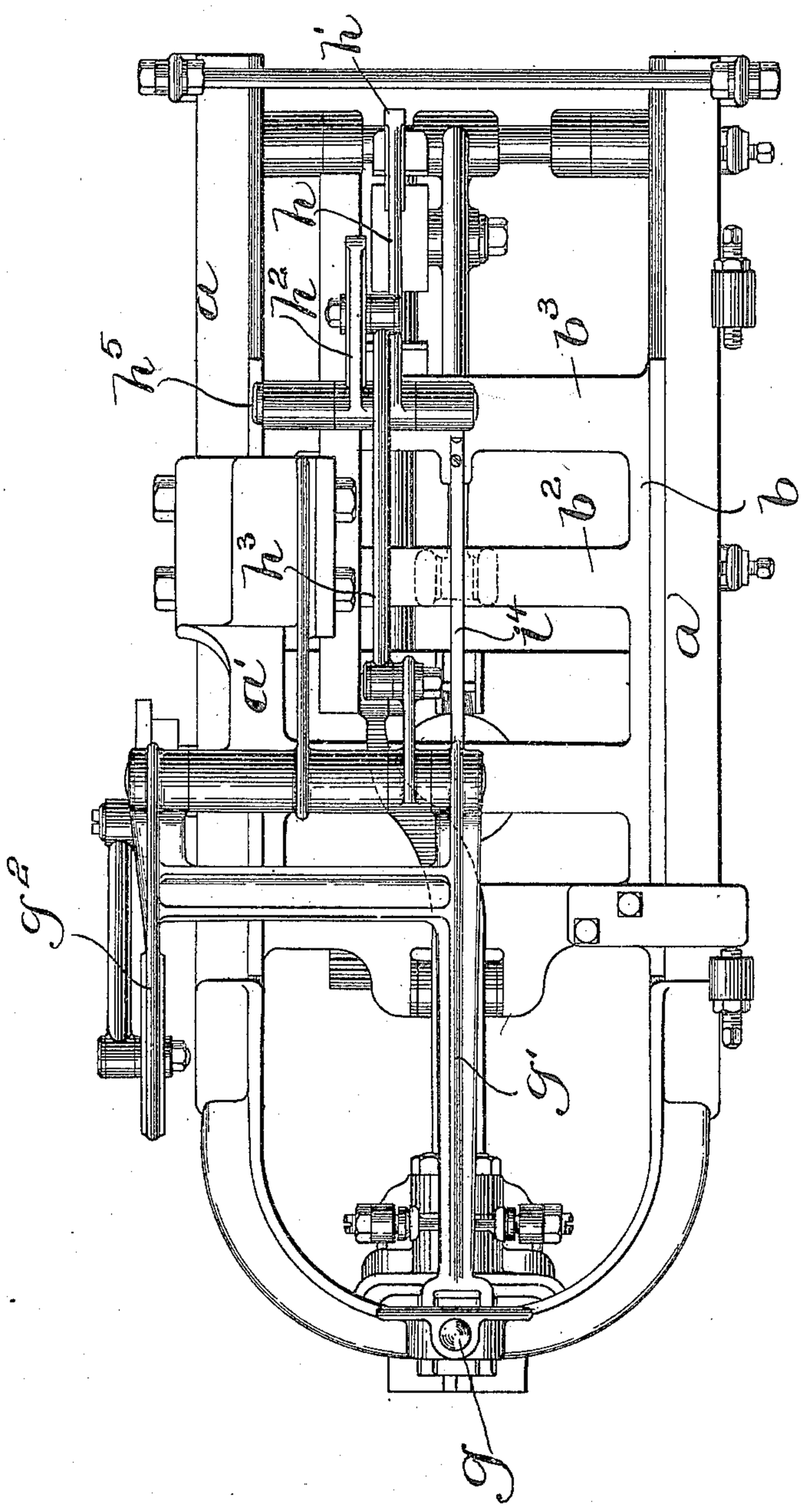

FIG. 2

WITNESSES.
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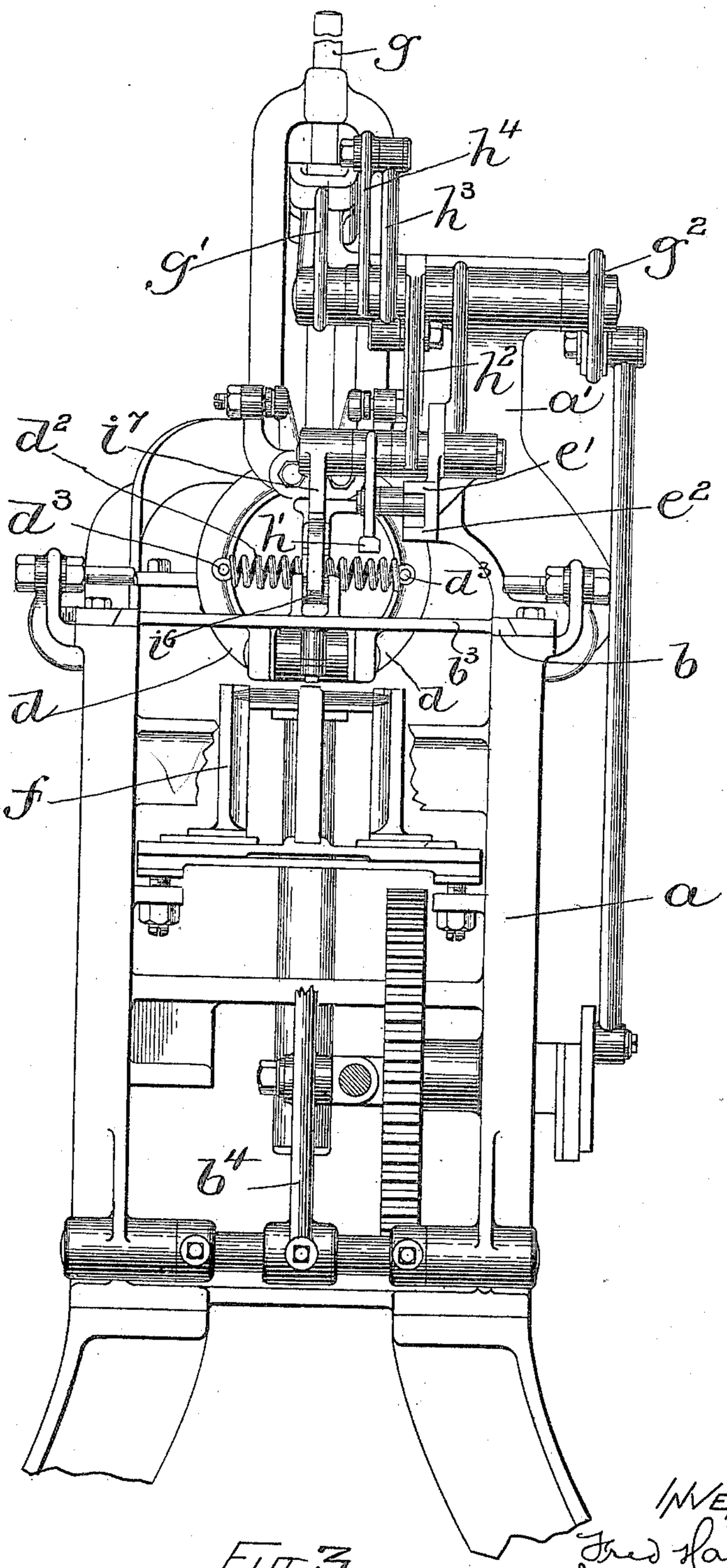

FIG-3-

WITNESSES-
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UNITED STATES PATENT OFFICE.

CHARLES S. GOODING, OF BROOKLINE, AND FRED HAUSMANN, OF BOSTON, MASSACHUSETTS, ASSIGNORS, BY DIRECT AND MESNE ASSIGNMENTS, TO THE SIEGEL LABELING MACHINE COMPANY, OF BOSTON, MASSACHUSETTS.

BOTTLE-LABELING MACHINE.

SPECIFICATION forming part of Letters Patent No. 680,972, dated August 20, 1901.

Application filed June 24, 1897. Serial No. 642,174. (No model.)

To all whom it may concern:

Be it known that we, CHARLES S. GOODING, of Brookline, in the county of Norfolk, and FRED HAUSMANN, of Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Bottle-Labeling Machines, of which the following is a specification.

This invention has relation to bottle-labeling machines; and it consists of certain features of construction and arrangement, all as is clearly illustrated upon the drawings and now to be described in detail, and pointed out in the claims hereto appended.

Reference is to be had to the accompanying drawings, and to the letters marked thereon, forming a part of this specification, the same letters designating the same parts or features, as the case may be, wherever they occur.

On the drawings, Figure 1 represents in side elevation a machine embodying our invention. Fig. 2 represents a plan view of the same, and Fig. 3 represents a rear end elevation of the same with the carriage-moving lever broken away.

On the drawings we have illustrated one form of machine in which our invention is embodied; but it will be understood that although we will hereinafter describe it in detail we may vary the features and parts thereof to suit different requirements, since the invention may be expressed or embodied in other machines for different purposes.

The frame of the machine is indicated at a and is broken away to show some of the parts in section, only the upper portion of the frame being illustrated for lack of space. The said frame is provided on its upper surface with a guideway to receive a slide or carriage b, consisting of side bars connected by cross-bars b^2 b^3. The slide is reciprocated in any suitable way, as by a lever b^4 and link b^5, and carries at its front end a pivoted two-armed lever c, which supports the label-carrying arms d. The lever c has on the end of the arm c' a roller c^2, which is pressed by a spring c^3 against a longitudinally-extending track e', formed on a bracket e, which is attached by bolts to an overhanging arm or neck a', rising from the frame a. Below the track e' is a track e^2, having a central stationary section and movable pivoted end sections e^3 e^4, so that the roller c^2 will bear against the track e' when the slide or carriage b is traveling rearwardly and against the track e^2 when the carriage is traveling toward the front.

The label-carrying arms d, which are pivoted upon the arm c^4 of the lever c, are each provided with a shoe d' and are connected in the usual way by a spring d^2, extending between pins d^3, projecting rearwardly therefrom.

The label-box f is mounted in the frame below the carriage b and is constructed in the usual way with a follower or plunger f' to hold a pile of labels and feed or press the top one against the paste-covered shoes on the label-carrying arms when the carriage is in its rearmost position.

g represents a plunger operated by a pivoted lever g' to force an article, such as a bottle or a can, between the label-carrying shoes, the lever g' being actuated by a lever g^2, in turn moved by some suitable power devices.

A lever h, having a flat foot h', is mounted on a shaft h^5 above the track e' and is operated by a lever h^2, a connecting-rod h^3, and a lever h^4, the latter being rigidly mounted on the supporting-shaft g^3 of the levers g' g^2.

When the carriage has reached its rearmost position and the roller c^2 has rolled off the end of the track e' to permit the depression of the label-shoes d' and their being forced against the pile of labels, the lever h is operated to engage the roller c^2 and force it down, whereupon the forward movement of the carriage causes the roller to move along the movable section e^4 of the track e^2 and along the movable section e^3 into position, as shown on the drawings.

Suitable pasting devices, as indicated conventionally at m, are placed in front of the label-box, so that when the carriage is moved to the rear the shoes are covered with paste, whereby the adhesion of the paste and the top label causes the shoe to carry the said label forward in position to be placed upon the bot-

tle, there being suitable means, as indicated conventionally at *n*, for wiping the label on the bottle.

It is very essential in many cases that the length of time that a bottle has been filled and labeled should be known, and therefore I provide the machine with means for stamping each label with the date. The printing means in this present invention consists of a spring-held plunger *i*, mounted in the carriage *b* and equipped at its lower end with provisions for receiving a stencil or type, and it is so arranged that when the carriage is in its forward position the plunger is immediately over the pile of labels, which are placed face downward. On the rear end of the carriage is a tilting lever i', bearing against an adjustable stop or screw i^2 and held in that position by a spring i^3. Extending out from the lever i' is a spring strip or hammer i^4, having on the end a weight i^5, which is directly over the plunger *i*. The lever i' is also provided with an outwardly-projecting finger i^6, with which a finger i^7, secured to the shaft h^5 of the lever *h*, engages when the said lever is raised to lift the lever i' and then release it. The lever i' being thus lifted and released swings downward against the stop i^2, and the hammer i^4 continuing its descent by reason of its resiliency engages the plunger or printing device *i* and prints the date or any other characters or symbols upon the label. When the carriage slides rearward, the printing device passes over the ink-roll i^9, as shown in dotted lines. Thus from the foregoing it will be seen that each time the carriage is reciprocated a label is carried forward and another one is printed with the date, ready to be carried forward at the next reciprocation of the carriage.

It will be understood that we do not limit ourselves to the particular printing mechanism which we have employed, as many other forms may be used without departing from the spirit and scope of the present invention.

Having thus explained the nature of the invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, we declare that what we claim is—

1. A labeling-machine comprising a holder for a pile of labels, a reciprocatory label-carrier adapted to pick up a label and carry it into position to be placed on a bottle, a printing device, and mechanism for operating said printing device and said label-carrier whereby the top label in the label-holder is printed and then carried into position for the bottle.

2. A labeling-machine having wipers for wiping a label on a bottle, a label-carrier, a holder in which a pile of labels is placed with the labels face downward, printing mechanism supported independently of the label-carrier adapted to print the top label of the pile while it is in the holder, and means for operating said label-carrier and said printing mechanism whereby the label is first printed and then carried into position to be placed on a bottle.

3. A labeling-machine comprising a carriage having label-carrying shoes, a holder for a pile of labels, printing mechanism on said carriage, means for moving said carriage to bring the printing mechanism over the labels in the holder, and means for operating said printing mechanism.

4. A labeling-machine comprising a holder for a pile of labels, a carriage, a printing device mounted on said carriage, a spring-hammer for operating the said device, and means for actuating said spring-hammer.

5. A labeling-machine comprising mechanism for pasting a label, a label-box, means for conveying a label from said box in position to be wiped upon a bottle, provisions for effecting the placing of the label on the bottle, and printing mechanism constructed and arranged to print each label prior to its removal from the said label-box.

6. A labeling-machine comprising a bottle-support, wiping mechanism for wiping a label upon the curved periphery of a bottle, a label-holder adapted to receive a pile of labels, a reciprocatory mechanism for transferring said labels one by one into position whereby they may be wiped on the bottle, and means independent of said reciprocating transferring mechanism for printing said labels.

7. A labeling-machine comprising a bottle-support, wiping mechanism for wiping a label upon the curved periphery of a bottle, a label-holder adapted to receive a pile of labels, a reciprocatory mechanism for transferring said labels one by one into position whereby they may be wiped on the bottle, and means independent of the bottle-support for printing said labels prior to their attachment to the bottles.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, this 21st day of June, A. D. 1897.

CHAS. S. GOODING.
FRED HAUSMANN.

Witnesses:
A. D. HARRISON,
P. W. PEZZETTI.