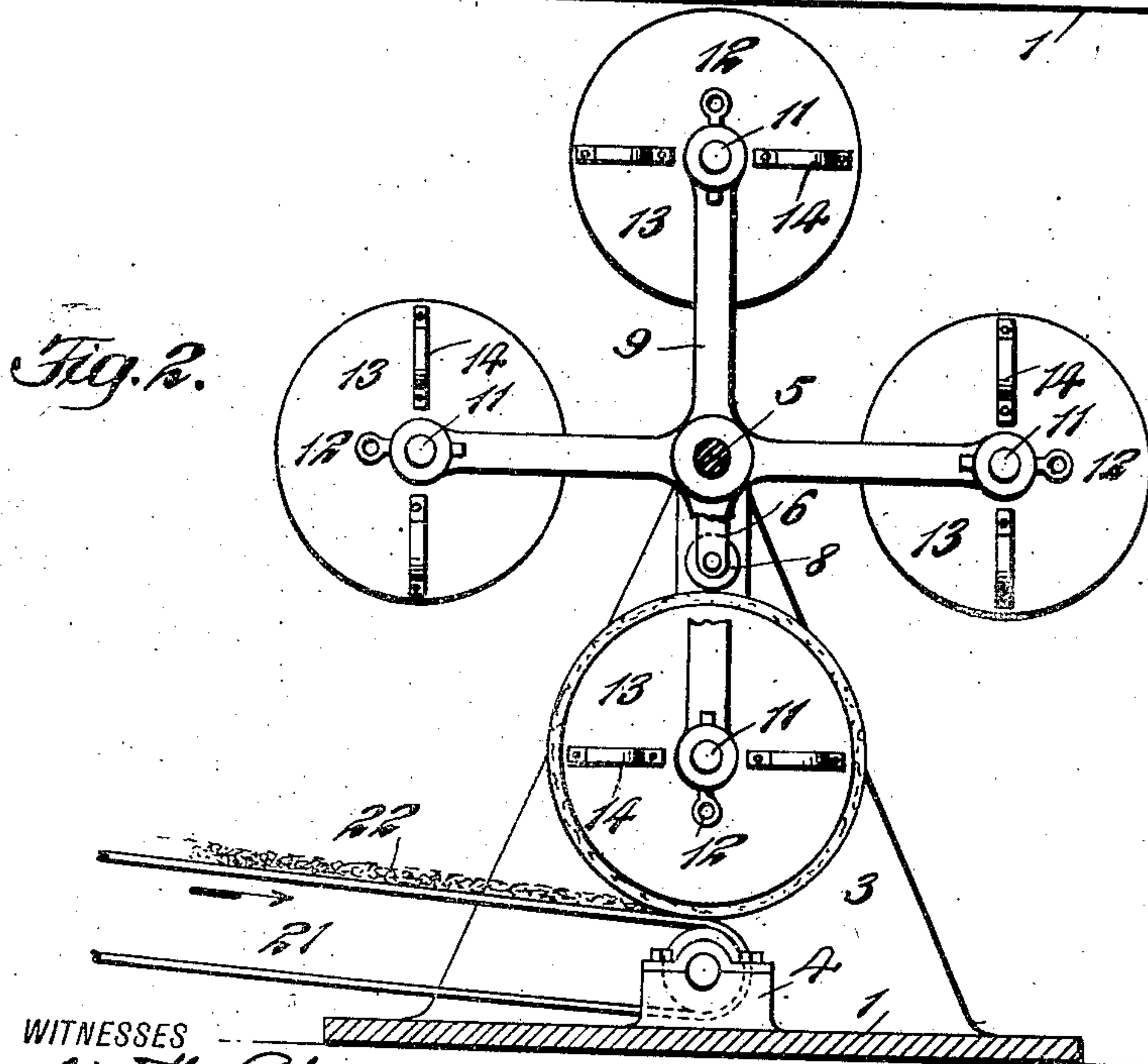
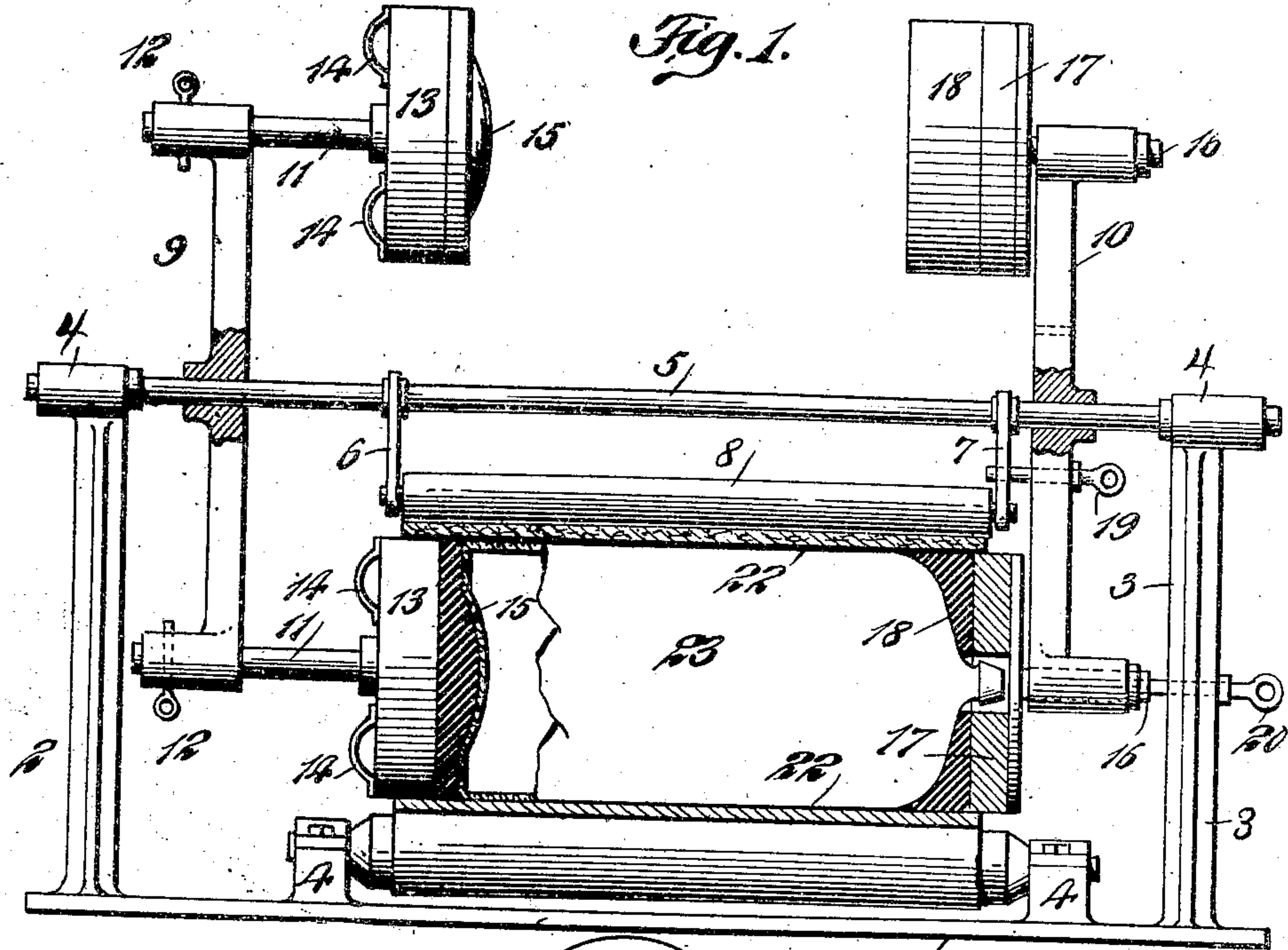


W. P. CATLIN.  
BOTTLE COVERING MACHINE.  
APPLICATION FILED MAR. 9, 1908.

903,671.

Patented Nov. 10, 1908.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## BOTTLE-COVERING MACHINE.

No. 903,671.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed March 9, 1908. Serial No. 419,898.

*To all whom it may concern:*

Be it known that I, WILLIAM P. CATLIN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Bottle-Covering Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to means and mechanism for applying a covering of paper or wood pulp, or the equivalent to glass receptacles, such as bottles and demijohns, and has for its object the provision of a simple and effective machine for forming a cylindrical covering of pulp directly upon the body of the bottle.

To attain the desired end, my invention consists in certain novel and useful combinations or arrangements of parts, and peculiarities of construction and operation, all of which will be hereinafter first fully described and then pointed out in the claims.

In the drawing, Figure 1 is a side elevation and partial longitudinal section of a bottle covering machine embodying my invention. Fig. 2 is an end elevation thereof.

Similar numerals of reference, wherever they occur, indicate corresponding parts in both figures.

1 is a base or bed provided with standards 2 and 3, and journal boxes 4. 5 is a fixed shaft mounted in the standards 2 and 3. 6 and 7 are arms journaled on the shaft 5 and carrying a roller 8. 9 and 10 are yokes journaled on the shaft 5. In each arm of the yoke 9 are shafts 11, slidably held in a perforation in each yoke-arm by a pin 12. The inner end of each shaft 11 bears a rotatable head 13, made of wood, or any other appropriate material, and provided with hand-pieces 14. The inner face of each head 13 bears a pad 15, of material such as rubber, conforming to the shape of the bottom of the receptacle to be covered.

In the arms of the yokes 10 are journaled shafts 16 provided with heads 17 which also carry pads 18 corresponding to the shoulder of the receptacle to be covered, the center of such pads and the heads 17 being cut away to receive the neck of the receptacle.

19 are pins in the arms of the yoke 10 for holding the roller 8 from swinging, and 20 is a pin for holding the yoke in a fixed position when a bottle is being covered.

21 is a felt band for carrying pulp 22 from a source of supply to the machine.

23 represents a bottle in position for applying the covering.

When constructed and arranged in accordance with the foregoing description, the operation of my bottle covering machine is as follows: Bottles 23 are placed in the yokes by removing the pins 12, drawing back the heads 13, passing the necks of the bottles into the perforations in the heads 17, and then returning the heads 13 to their initial positions, the elastic pads pressing against the bottom and shoulder of each bottle, accommodating any inequalities which may occur, and at the same time holding the bottle securely in position. The yokes are locked to hold the lower bottle as shown in Fig. 1 of the drawing, and the pulp is carried by the belt 21 to the bottle to which it adheres, and as the bottle rotates, with the heads 13 and 17, a covering of the pulp is formed thereon. The roller 8 presses upon the pulp-cylinder sufficiently to cause it to expand to a slightly larger diameter than the body of the bottle, to allow for contraction of the covering in drying. The cylindrical covering not only extends over the body of the bottle, but out upon the heads 13 and 17. When the covering is of the proper thickness, the pin 20 is removed and the bottle and cover swing upward, bring another bottle to position for covering, and as fast as a covered bottle is passed to the rear of the machine, it is removed and a fresh bottle inserted in its place.

After removing the bottle with its pulp cylinder from the machine, the projecting bottom of the cylinder is crimped and fixed over the bottom of the bottle, the projecting top portion is formed over the shoulder and neck, and then the covering is properly dried.

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

1. A bottle covering machine in which is comprised a holder for a bottle, in combination with means for winding a cylinder of pulp permanently upon the body of the bottle, of greater length than said body, substantially as shown and described.

2. In a bottle covering machine a holder for a bottle, consisting of heads provided with pads, said pads and heads forming a

continuation of the exterior wall of the bottle, in combination with means for forming a cylinder of pulp permanently upon the bottle and extending over the body of the  
5 bottle and the pads and heads, substantially as shown and described.

3. A bottle covering machine in which is comprised a pair of revoluble yokes provided with a plurality of arms, heads and  
10 pads mounted at the extremities of the arms of the yokes, means for permanently form-

ing a cylinder of pulp around a bottle held between said pads and heads, and a roller for bearing upon said cylinder, substantially as shown and described. 15

In testimony whereof I hereto affix my signature in presence of two witnesses.

WILLIAM P. CATLIN.

Witnesses:

LOUIS F. BRAUN,  
A. M. PIERCE.