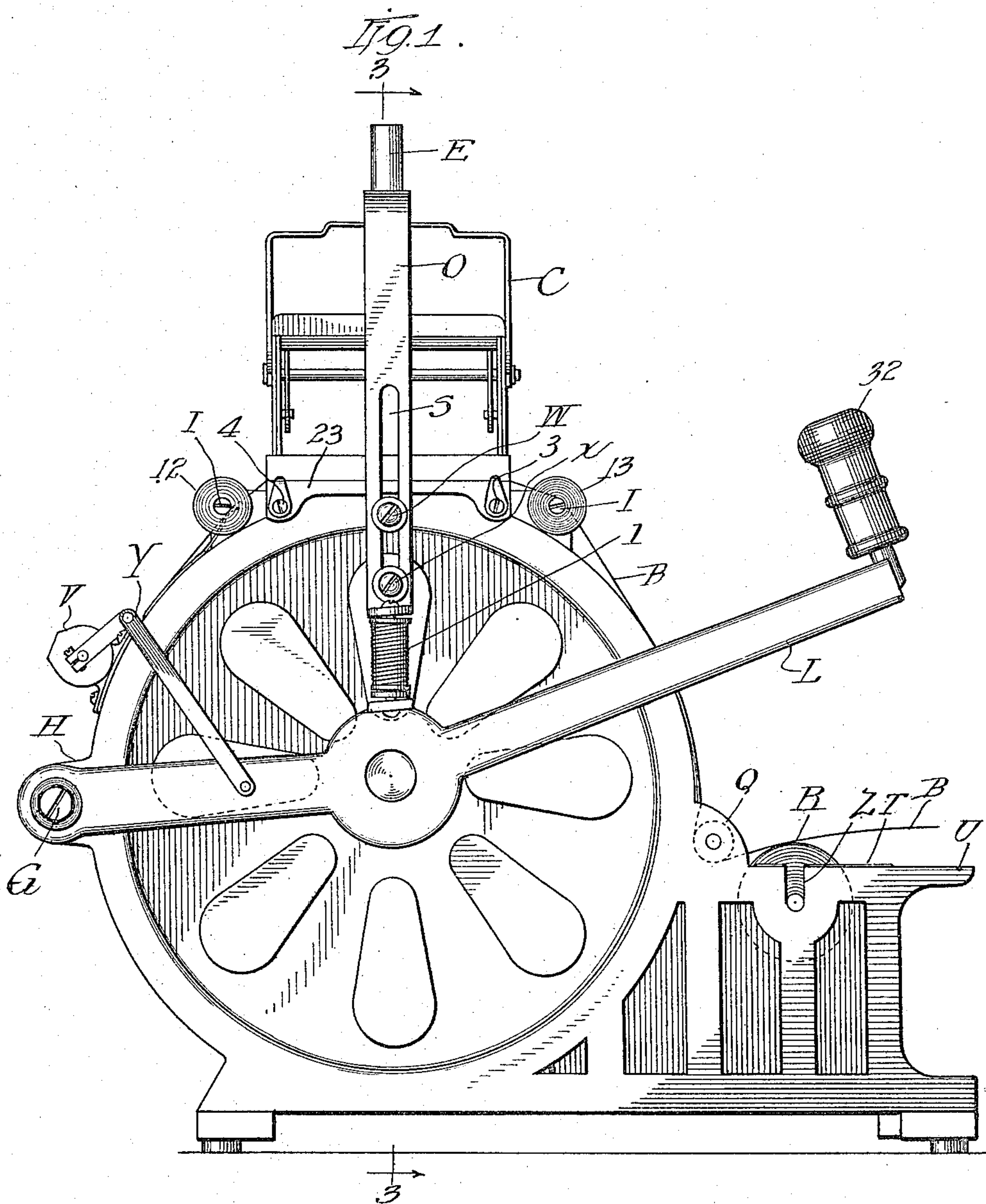


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 APPARATUS FOR MOISTENING AND PRINTING GUM TAPE.
 APPLICATION FILED JULY 26, 1915.

1,167,301.

Patented Jan. 4, 1916.
 3 SHEETS—SHEET 1.



Witnesses
 Robert V. Weir
 Arthur W. Castro

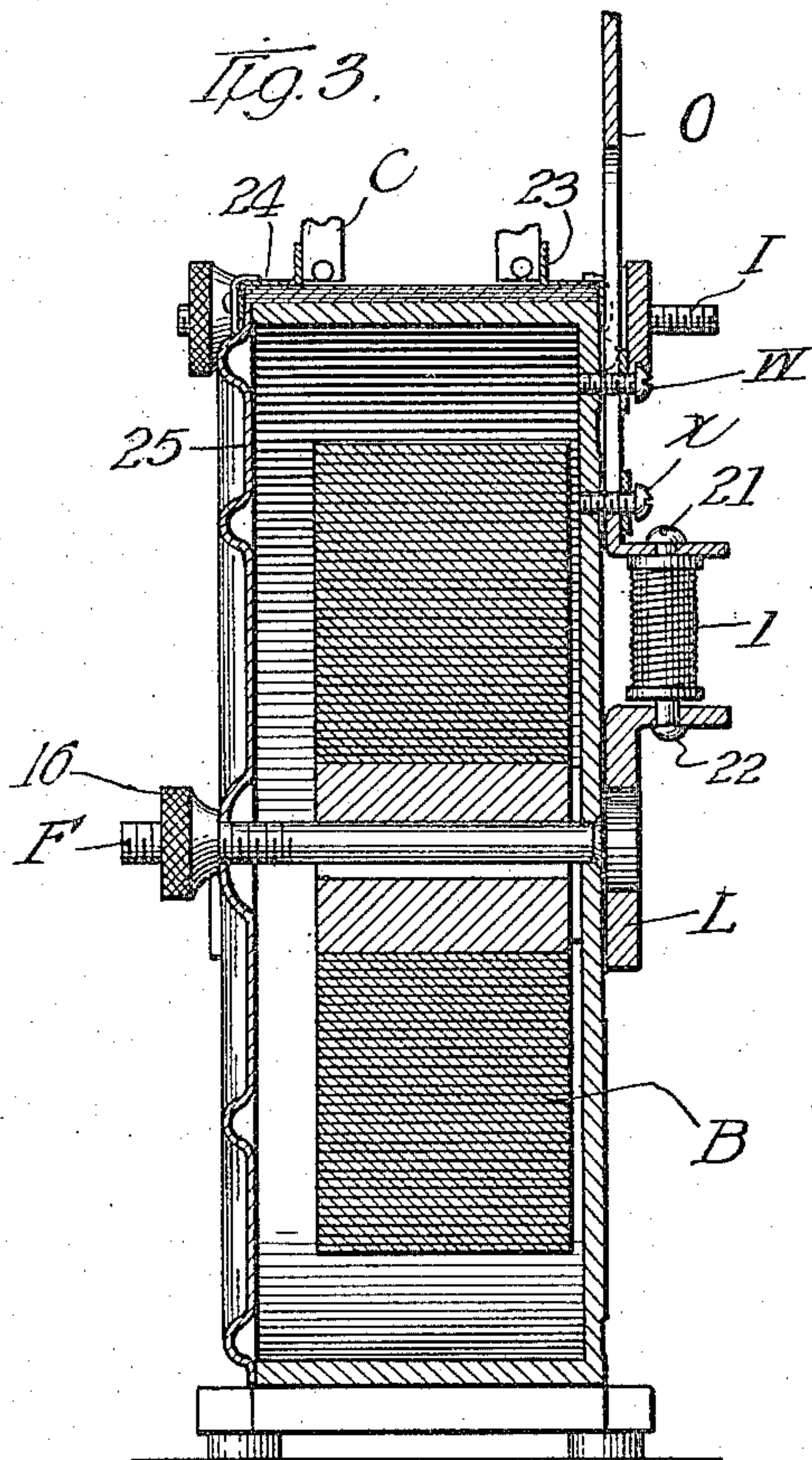
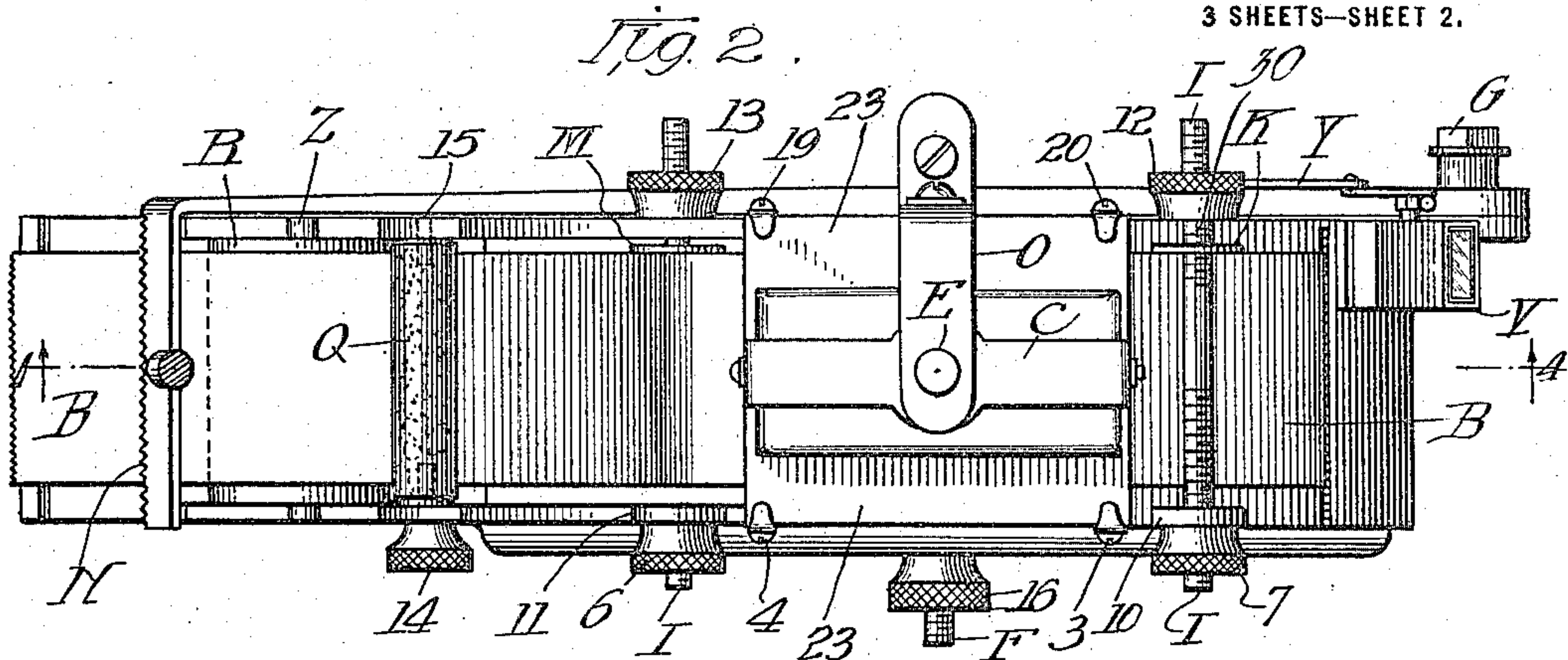
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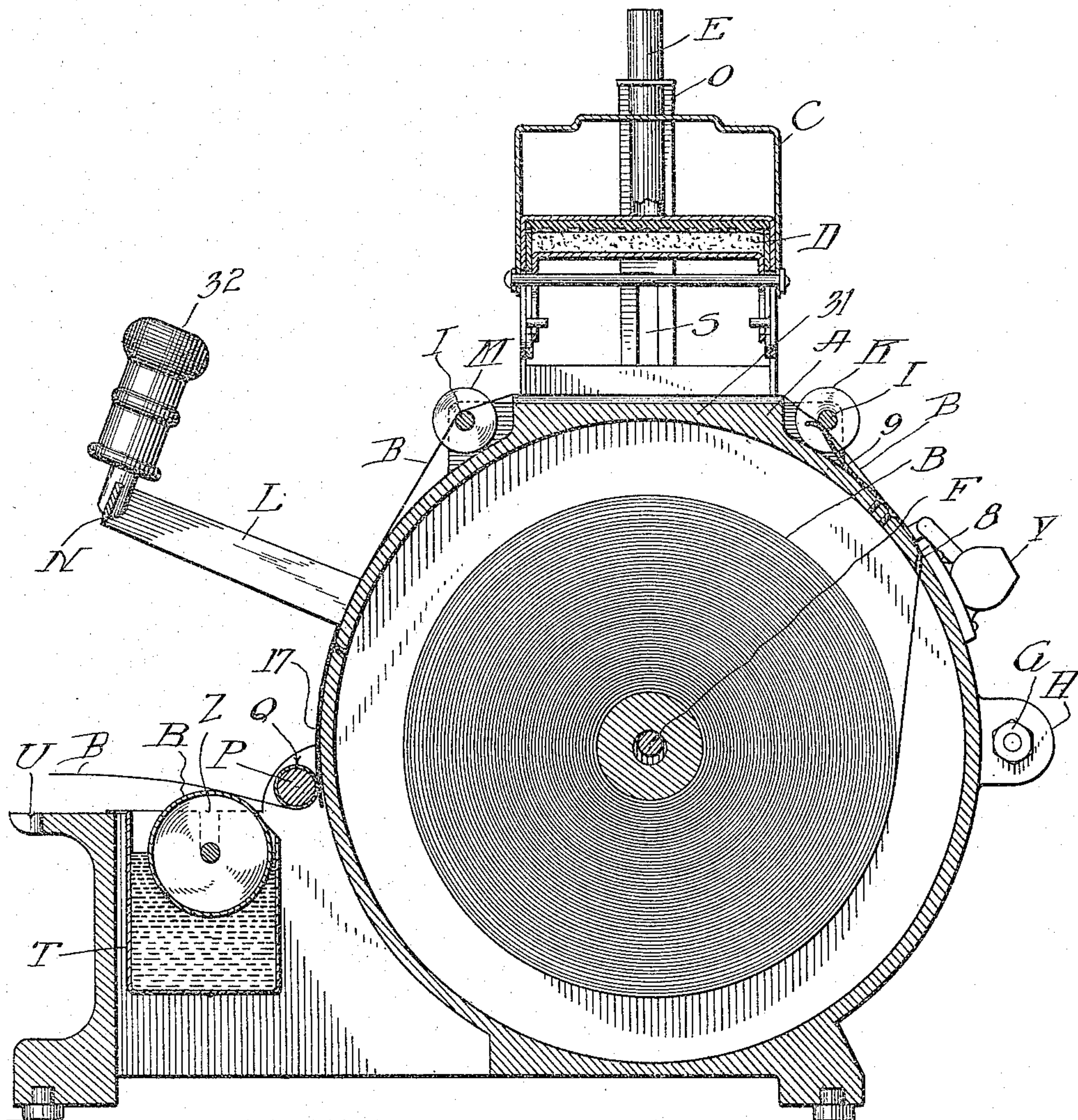
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Fig. 1.



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UNITED STATES PATENT OFFICE.

GEORGE LEWIS HOGAN, OF CHICAGO, ILLINOIS, ASSIGNOR TO JAMES IHRIE LEARY, OF CHICAGO, ILLINOIS.

APPARATUS FOR MOISTENING AND PRINTING GUM-TAPE.

1,167,301.

Specification of Letters Patent.

Patented Jan. 4, 1916.

Application filed July 26, 1915. Serial No. 42,091.

To all whom it may concern:

Be it known that I, GEORGE LEWIS HOGAN, of the city of Chicago, county of Cook, in the State of Illinois, have invented a new and useful Improvement in Apparatus for Moistening and Printing Gum-Tape, of which the following is a specification.

My invention relates to improvements in simplified apparatus whereby an ordinary self-inking office stamp is utilized to do the printing and a lever motion is provided for operating such stamp and marking or creasing the tape after it is printed, rendering it easily torn, and this apparatus has a marked advantage over apparatus heretofore made wherein roller devices are used for printing as in such roller machines the absolute alinement of the rollers is necessary in order to produce perfect printing, whereas in my apparatus a direct pressure application of the type is made against the tape.

I make no claim as to the style of printing stamp used with my invention as it may be any of the well known types of self inking rubber stamps.

My improvement also consists in providing a novel form or tape guide which is adjustable so as to permit the use of tapes of varied widths and also includes other novel details of mechanism hereinafter set forth.

To better illustrate my invention I refer to the accompanying drawing in which similar letters represent similar parts and in which:

Figure (1) represents a full side view of the apparatus. Fig. (2) represents a plan view, and Fig. (3) represents a vertical section on plane (3), and Fig. 4 represents a vertical section on plane (4).

(A) represents the frame of the apparatus.

(F) represents a central tape axis held within the case portion of the frame.

(B) represents a roll of tape.

(8) is an outlet slot through the frame for the tape.

(1) is a threaded guide rod attached to the frame by the jam nut (12).

(K) is a flange washer fixed to the rod (1).

(10) is a threaded flange nut adjustably held on the rod (1).

(7) is a jam nut for fastening (10) in a fixed position. The rod (1) is screwed into

the bearing (30) of the frame and has a longitudinal adjustment in such manner that the distance between (K) and (10) may be varied and fixed according to the width tape to be used and at the same time centered with respect to the printing device (C). The upper portion of the frame (A) forms a printing table (31) Fig. (4). The self inking stamp (E—C) is held in position on the printing table by wing members (23) attached to the stamp or printing device, one on each side and bent over the respective edges of the printing table and fixed thereto by screws (3, 4, 19, 20) and on the opposite side of the printing device another guide rod (1, 6, 11, M, 13) is attached in the same way as the one previously described.

(9) is a spring pressing against the guide rod (1) Fig. (4) for the purpose of creating tension on the tape (B).

(P) is a roller removably fastened between the walls of the frame (A).

(Q) is a cylinder of blotting material slipped over the roller (P) and may be from time to time renewed by removing the roller and replacing it again on its central screw bearings which may be of the ordinary type.

(17) is a tension spring working in conjunction with the roller (P, Q).

(T) is a water tank removably held between the walls of the frame (A) and (R) is a roller, the axis of which revolves in the slotted bearings (Z) of the frame and is used for a moistening conductor.

(U) is a projection of the frame (A) forming a grooved cutting table.

(E) is the hollow handle of the printing device of the ordinary type of self inking rubber stamp in which a spiral spring is held within the said handle and is of the usual type well known in the rubber stamp trade and as I make no claim to the same as to its details I will omit to describe them.

(O) is a vertical slotted bar or equivalent bent over at its upper end or otherwise provided with an opening or means for fitting over or engaging the handle (E) preferably in a removable manner. The lower portion of (O) is provided with a suitable guiding device preferably a slot (S) working in conjunction with one or more guide screws (W, X) and connected with the lever (L) by a compensating spring (I) which

obviates the necessity of adjusting the movement of the lever to absolute precision for by means of this compensating spring the lever may be allowed an excess space of motion and when the type is pulled against the tape the lever can be pressed still farther down giving extra pressure upon the type by the yielding of the compensating spring (I).

(N) is a knife edge cutter or creaser attached to the lever (L) and preferably provided with a handle (32). This knife edge may form a part of the lever by bending the same at right angles over and transverse to the path of the tape or it may be separately attached to the lever and its edge is preferably notched to give a perforating effect. It is preferably arranged so as to register into the groove of the cutting table (U) when the lever is pressed down.

(Y) is a lever whereby the motion of the lever (L) may be transmitted so as to operate a counting or registering device such as the well known Veeder counter, thus registering a number each time that the handle (32) is pressed down. This attachment is very essential where it is necessary to keep a record of imprints made, such as printing labels for shipping packages or tickets for moving picture shows.

(16) is a jam nut with a screw thread to work on the axis (F).

(25) is a cover with a hole in its central portion capable of slipping over the axis (F) and is held in position by the jam nut (16) forming a cover with the frame of the machine incasing the roll of tape.

The operation of my apparatus is as follows: A roll of tape (B) is placed over the axis (F) and its end passed out (8) between the tension spring (9) and the guide rod (1) and over the printing table (31), between such printing table and the printing device and over the guide rod (1), between the roller (P—Q) and tension spring (17), over the roller (R) and cutting table (U). The guide rods (1) are then adjusted so as to

center the tape with respect to the printing device by screwing such rods and guide washers to proper positions. Water is then poured into the tank (T). The tape is then unwound by pulling the end over the roller (R) and cutting table (U). The handle (32) is then pressed down creasing the tape at (U) and simultaneously operates the printing device thus making an imprint upon the tape at an intermediate point and while the handle (32) is down the tape should be jerked upward against the creasing knife and thus torn or cut off along its edge. As the tape is pulled out of the machine its gummed side passes over the top of the roller (R) causing it to revolve in the water tank (T) and thus transmit moisture to the gum on the tape.

Having thus described my invention, what I claim is:—

A roll tape printing device comprising a frame, an axis supported by such frame for the purpose of holding the roll tape, permitting of its free rotary motion about such axis, a lever attached to the said frame at one end and in operative relation with a printing device, the type of which is held up by the action of a spring, a perforating marking or cutting knife at the other end of the said lever, held in transverse position with respect to the path of the tape, a printing table in operative relation with the said printing device, a passage between the printing device and the said printing table, permitting the tape to be drawn through such passage as it is unwound from the roll in such manner that a pressure upon the said lever will force the type of the said printing device against the said tape and simultaneously perforate, crease or mark the tape at a point beyond the roll and said printing device rendering it easy to tear as and for the purpose described.

GEORGE LEWIS HOGAN.

Witnesses:

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A. E. WOODRUFF.