June 2, 1925. 1,540,081

J. U. MANISCHEWITZ

APPARATUS FOR DATING ARTICLES OF MANUFACTURE

Filed May 10, 1922 2 Sheets-Sheet 1

Fig. 1.

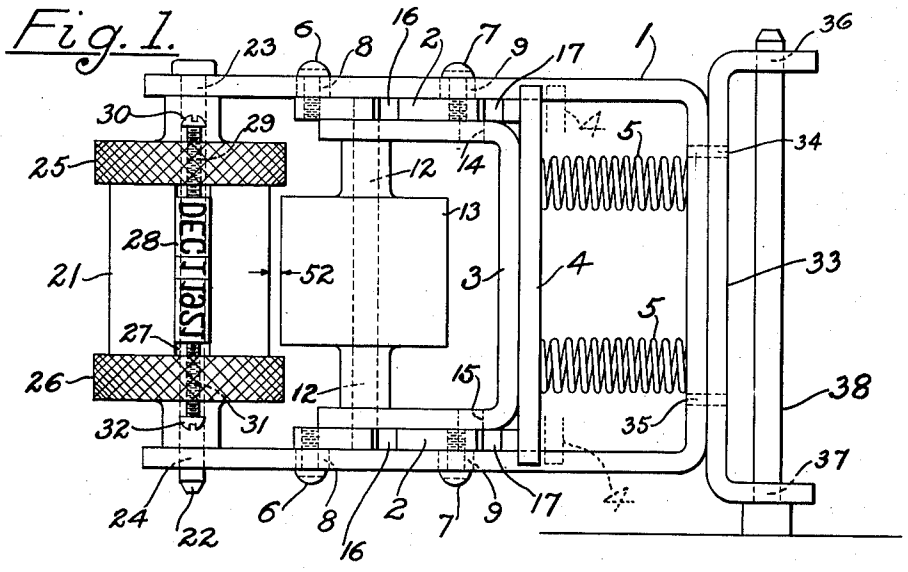


Fig. 2.

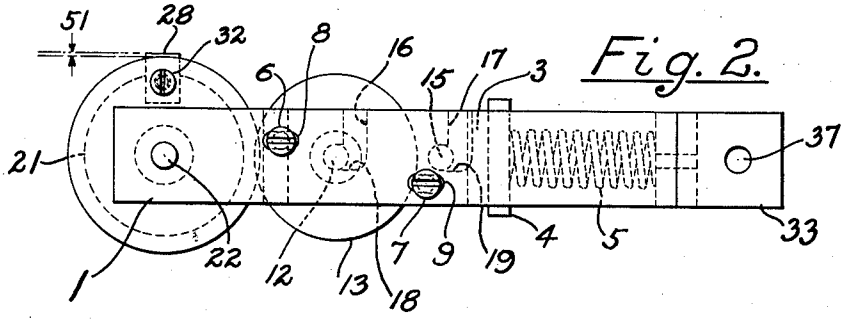


Fig. 4.

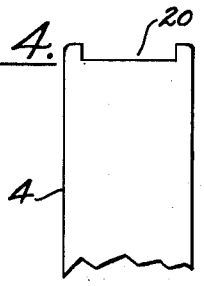
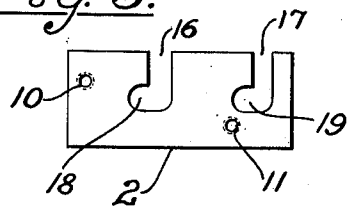


Fig. 3.



Inventor:
Jacob U. Manischewitz,
By Walter F. Murray
His Attorney.

June 2, 1925. 1,540,081

J. U. MANISCHEWITZ

APPARATUS FOR DATING ARTICLES OF MANUFACTURE

Filed May 10, 1922 2 Sheets-Sheet 2

Fig. 5.

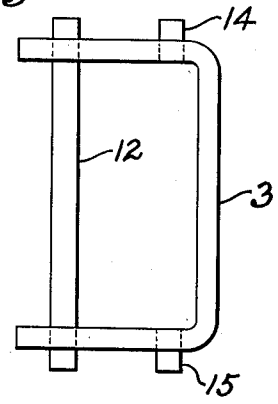


Fig. 6.

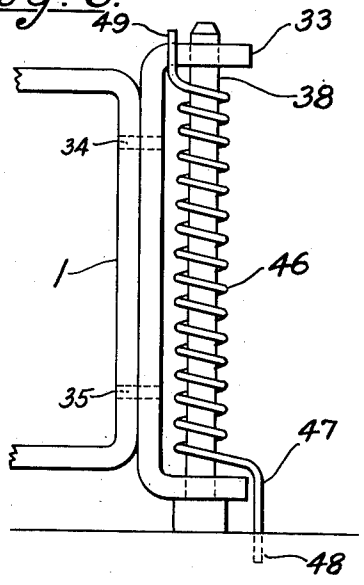
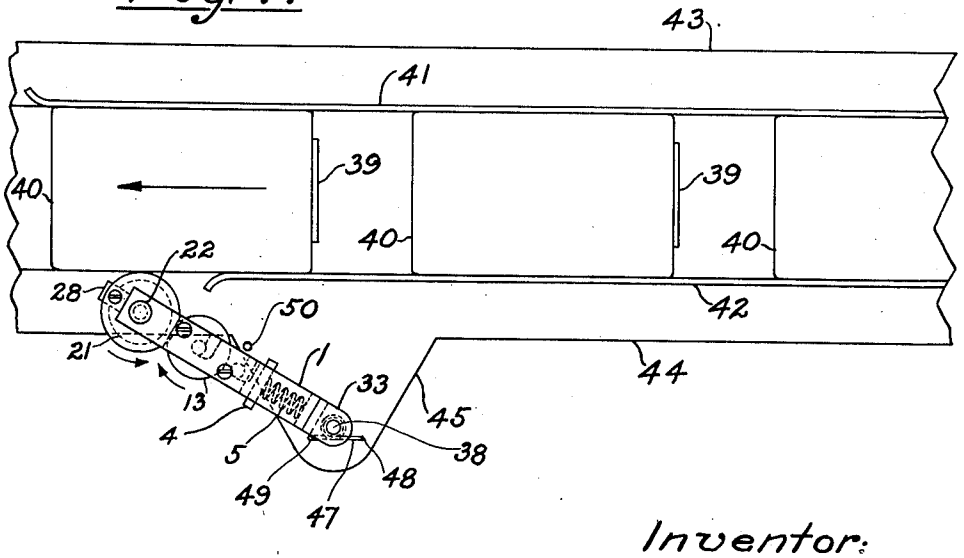


Fig. 7.



Inventor:
Jacob U. Manischewitz,
By Walter J. Murray
His Attorney.

Patented June 2, 1925. 1,540,081

UNITED STATES PATENT OFFICE.

JACOB U. MANISCHEWITZ, OF CINCINNATI, OHIO, ASSIGNOR TO THE B. MANISCHEWITZ COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

APPARATUS FOR DATING ARTICLES OF MANUFACTURE.

Application filed May 10, 1922. Serial No. 559,836.

To all whom it may concern:

Be it known that I, JACOB U. MANISCHEWITZ, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in an Apparatus for Dating Articles of Manufacture, of which the following is a specification.

My invention relates to an apparatus for dating articles of manufacture while they are moving or traveling on an endless carrier or similar device, on which the dating is accomplished by frictional contact with the articles of manufacture, and without reference to any direct time or spacing.

An object of my invention is to stamp an identification mark or code-word on articles or cartons by a simple and effective method without any positively operated or manually operated means.

Another object is to provide simple and ready means for removing the ink roll, and means to regulate the position of the said ink roll that any desired amount of ink-impression may be easily obtained.

These and other objects are attained by the means described herein and disclosed in the accompanying drawing, in which:

Fig. 1 is a side elevation of a device embodying my invention.

Fig. 2 is an inverted plan view of the device shown in Fig. 1.

Fig. 3 is a plan view of a bracket forming a detail of my invention.

Fig. 4 is a fragmental end view of a bar forming a detail of my invention.

Fig. 5 is a side elevation of an ink roll frame forming a detail of my invention.

Fig. 6 is a fragmental side elevation of a tension spring arrangement forming a detail of my invention.

Fig. 7 is a plan view of a device embodying my invention, operatively mounted in relation to the articles upon which it is to work.

The frame 1 supports the ink roll tension bar 4 and the brackets 2, which carry the ink roll frame 3. Springs 5 fit between the base of the frame 1 and the tension bar 4 and give the desired amount of pressure to the frame 3. The brackets 2 are adjustably mounted to the frame 1 by means of screws 6 and 7 passing through the elongated slots 8 and 9 respectively, of the frame 1, and terminating in tapped holes 10 and 11 in the brackets 2. A shaft 12 is mounted on the frame 3 and on the shaft is loosely mounted on ink roll 13. The ends of shaft 12 project beyond the frame 3 and serve as stop members. Stop pins 14 and 15 are mounted on the frame 3. The shaft 12 and stop pins 14 and 15 are removably mounted in lock-slots in the ink roll frame brackets 2. Said lock slots are composed of slots 16 and 17 communicating with the elongated cross slots 18 and 19. The frame 3 with shaft 12 and stop pins 14 and 15 is mounted on the brackets by inserting the shaft 12, and pins 14 and 15 in the slots 16 and 17 and then pushing the shaft and pins down into the elongated slots 18 and 19. The frame is held in position by the springs 5 pressing against the tension bar 4 which bar bears upon the frame 3. The tension bar 4 is provided at each end with a guide slot 20 into which the frame fits freely to permit relative movement of the bar and frame. A friction roll 21 is loosely mounted on a stud 22 which fits in holes 23 and 24 of the frame 1. Said friction roll is provided at its ends with enlarged and knurled flanges 25 and 26. These flanges 25 and 26 may be covered with rubber or other material that offers resistance to the action of friction. In friction roll 21 is a slot 27 adapted to accommodate suitable type 28, comprising the letters or numerals wherewith to stamp the desired identification mark on the articles of manufacture. Through the end member 25 is a tapped hole 29, in which a clamping screw 30 engages. Through the end member 26 is a tapped hole 31, in which a clamping screw 32 engages. Screws 30 and 32 serve to hold the type 28 in rigid alignment.

Bracket 33 is attached to the frame 1 by any suitable means, such as by pins 34 and 35. Said bracket 33 is provided with holes 36 and 37 and is mounted on a stud shaft 38 mounted on a carton conveyor, or any other similar device, in any suitable manner, and is adapted to yieldingly position the roller 21 in the path over which the cartons are moved.

My improved apparatus for dating articles may be used in connection with any carton sealing machine or similar device, but for the sake of clearness and simplicity in the drawings accompanying the specifica-

tions I have shown a plan view of a simple conveyor provided with suitable projections or dogs 39 that carry the filled or empty cartons 40 to the dating attachment. I have shown guide bars 41 and 42 for guiding the cartons 40, and side ledges 43 and 44. At any suitable place on the ledge 44 is a projection 45, or other similar support, on which the stud 38 is mounted. A spring 46 serves to yieldingly hold the dating attachment in engagement upon the cartons 40, the lower end 47 of said spring extending into a hole 48 in the projection 45, and the other end 49 of the spring presses against the bracket member 33. A stop pin 50, mounted on the ledge projection 45, limits the movement of the dating attachment under the influence of the spring 46.

In practice, my invention operates as follows: Cartons 40 are placed on any suitable carrier provided with projections or dogs 39 and carried forward to the end members 25 and 26 of the friction roll 21. The knurled surfaces of said end members cause the friction roll to rotate at the same peripheral velocity as the carton 40, due to frictional contact with said carton, and the diameter or perimeter of the end members 25 and 26 are of such dimension that one rotation will be approximately equal to the length of the carton. As the friction roll 21 rotates, the type 28 mounted in the slot 27 will pass around and frictionally engage the ink roll 13, moving said ink roll a distance 52, and cause said ink roll to rotate at an equal velocity, imparting to the type a supply of ink, and then the type 28 will transfer the ink impression to the cartons 40. The amount of ink imparted to the type 28 may be varied by regulating the distance 52 by adjusting the ink roll frame brackets 2 and locking same by the screws 6 and 7. The tension of the springs 5 is proportioned to give the ink impression correct legibility. Ink is applied to the ink roll 13 by any suitable means, such as by applying it with a brush.

To remove or replace the ink roll and coacting parts, the tension bar 4 is moved against the resistance of the spring 5 to the position indicated by the dotted lines and dotted numeral 4, and the shaft 12 and pins 14 and 15 are disengaged from the slots 18 and 19, whereupon the frame 3 may be lifted out of the slots 16 and 17.

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

1. In a device of the class described the combination of a U shaped frame adapted to be mounted adjacent a way thru which articles to be marked may pass, a bar slidably mounted upon the arms of the frame, means yieldingly resisting movement of the bar toward the base of the frame, brackets mounted on the arms of the frame having elongated slots extending longitudinally of the brackets and the frame, and having transverse slots extending from the longitudinal slots to the outer edge of said brackets, an ink roll frame carrying an ink roll shaft extending beyond the ink roll frame and adapted to have its opposite ends enter the slots in the brackets, stop pins mounted on the ink roll frame adapted to enter the slots in the brackets, the ink roll frame engaging the bar, whereby pressure on the ink roll frame is resisted by the bar, an ink roll mounted on the ink roll shaft, and a friction roll carrying type mounted between the ends of the arms of the first mentioned frame, the yielding means being adapted to normally retain the ink roll in the path of the type.

2. In a device of the class described the combination of a U shaped frame adapted to be mounted adjacent a way thru which articles to be marked may pass, a bar slidably mounted upon the arms of the frame, means yieldingly resisting movement of the bar toward the base of the frame, brackets mounted on the arms of the frame having elongated slots extending longitudinally of the brackets and the frame, and having transverse slots extending from the longitudinal slots to the outer edge of said brackets, an ink roll frame carrying an ink roll shaft extending beyond the ink roll frame and adapted to have its opposite ends enter the slots in the brackets, stop pins mounted on the ink roll frames adapted to enter the slots in the brackets, the ink roll frame engaging the bar, whereby pressure on the ink roll frame is resisted by the bar, an ink roll mounted on the ink roll shaft, a friction roll carrying type mounted between the ends of the arms of the first mentioned frame, the yielding means being adapted to normally retain the ink roll in the path of the type, a stud shaft, a U shaped bracket having slotted arms, thru which slots the stud shaft extends, means to mount the first mentioned frame on the base of the U shaped brackets and a spring having a fixed end and having its other end in engagement upon the U shaped bracket.

3. In a device of the class described the combination of a pivotally mounted frame, means yieldingly resisting movement of the frame about its mounting, the frame comprising a pair of arms, a bar reciprocally engaging the arms, means yeldingly resisting movement of the bar, a U-shaped ink roll frame removably and reciprocally supported by the arms and engaging the bar, an ink roll carried by the ink roll frame, and a printing roll revolubly mounted on the arms for engagement with the ink roll.

4. In a device of the class described the combination of a pivotally mounted frame

comprising a pair of spaced arms and a base connecting said arms at one end, a printing roller removably mounted on the free ends of the arms, a U-shaped ink roller frame removably mounted for reciprocation longitudinally of the arms whereby the ink roller frame may be moved toward and away from the printing roll, a bar slidably mounted between the arms and adapted to abut the ink roller frame, and means retaining the bar in abutment with the ink roller frame for yieldingly positioning said ink roller frame adjacent the printing roll.

In testimony whereof, I have hereunto subscribed my name this 9th day of May, 1922.

JACOB U. MANISCHEWITZ.