

S. S. YENOVKIAN.  
PASTING MACHINE.  
APPLICATION FILED DEC. 17, 1910.

1,036,771.

Patented Aug. 27, 1912.

2 SHEETS—SHEET 1.

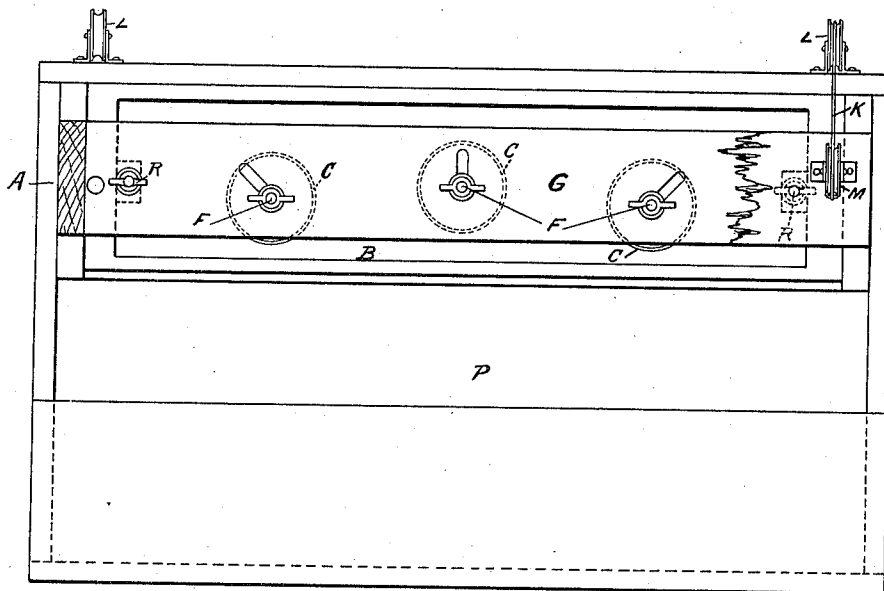


Fig. 1.

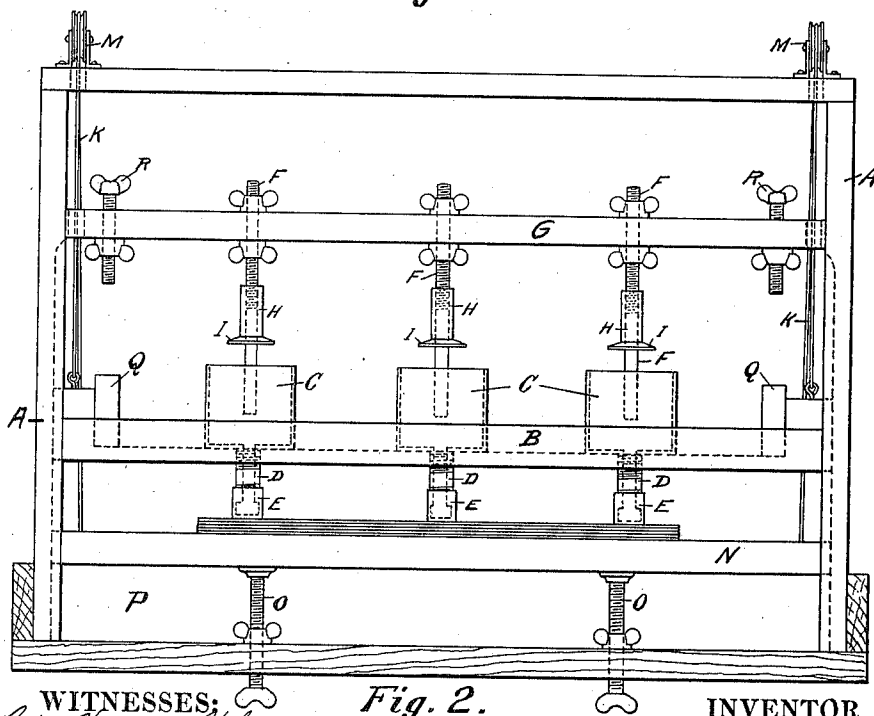


Fig. 2.

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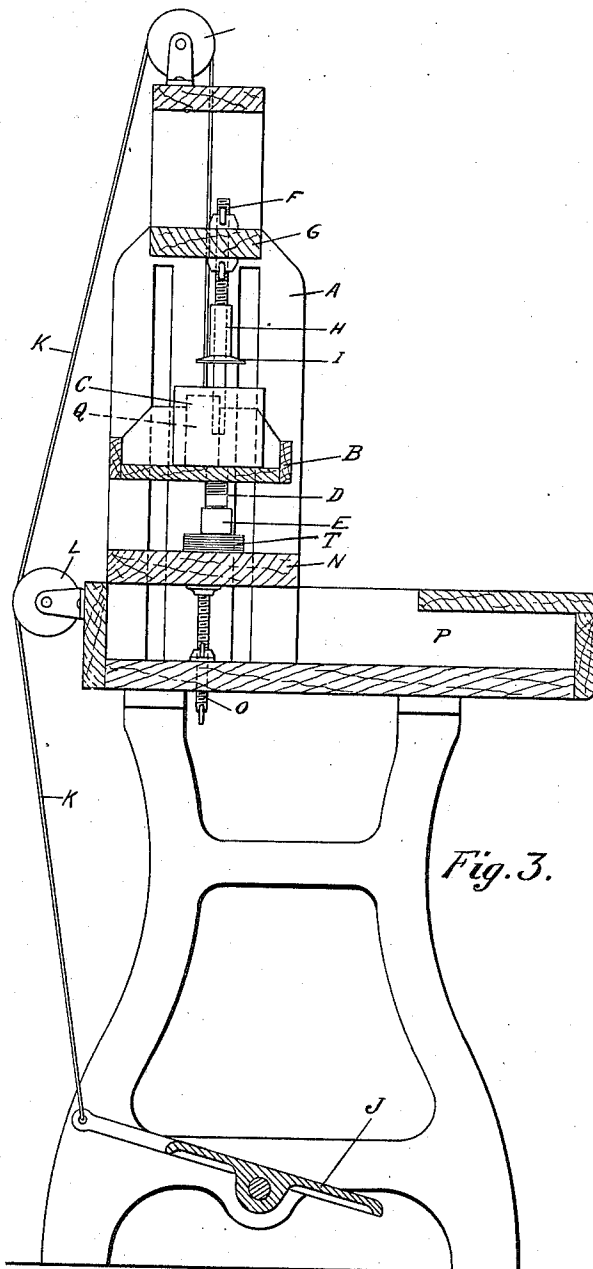


Fig. 3.

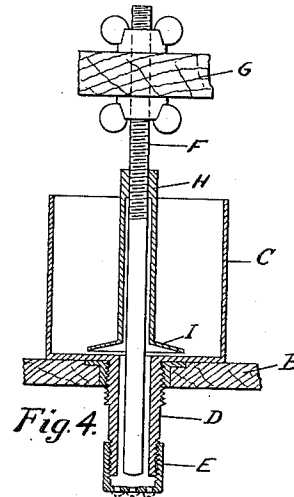


Fig. 4.

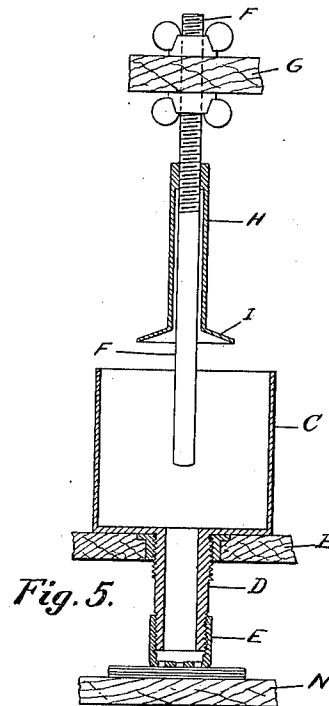


Fig. 5.

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# UNITED STATES PATENT OFFICE.

SARKIS STEPHENS YENOVKIAN, OF BOSTON, MASSACHUSETTS.

## PASTING-MACHINE.

1,036,771.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed December 17, 1910. Serial No. 597,912.

*To all whom it may concern:*

Be it known that I, SARKIS STEPHENS YENOVKIAN, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Pasting-Machines, of which the following is a specification.

My invention relates to pasting machines and especially to machines for pasting together the blanks in the manufacture of collars.

The objects of my invention are to construct a machine by which the paste may be distributed in the desired quantities and at the desired places on the goods mechanically and rapidly and may be operated by a foot pedal or other power, leaving the hands of the operator free to handle the goods.

Other objects of my invention will appear from the specification.

I obtain these objects by means of the mechanism illustrated in the accompanying drawings in which—

Figure 1 is a plan view of my pasting machine, a part of the frame being broken away. Fig. 2 is a front elevation of the same. Fig. 3 is a cross-section with parts broken away. Fig. 4 is an enlarged cross-section in detail showing the cup raised and the plunger forcing the paste through the perforations of the cap. Fig. 5 is a detailed cross-section, the same as Fig. 4 except that the cup is lowered, as shown in Fig. 2.

Similar letters refer to similar parts throughout the several views.

In the manufacture of collars the blanks are pasted together by the paste being distributed in three places upon the blanks. This is usually done by hand. One of the purposes of my invention is to perform this work mechanically so that the paste will be distributed uniformly and with much rapidity and positiveness without the hands of the operator coming in contact with the paste.

Referring to the drawings, A represents the frame of the machine.

B is a platform located within the frame and is vertically movable. Upon this platform are located a series of cups or reservoirs.

C, C are cups adapted to contain the liquid paste. These cups C, C are provided with tubes D, D extending through the bottom of the platform and for some distance below it. Upon the bottom of the tubes D,

D are caps E, E which are detachably connected to the ends of the tubes D, D preferably by screw-threads so as to be adjustable and also detachable and easily removed for cleaning or otherwise. The lower end of the caps E, E are perforated with holes of suitable number and size to allow a proper quantity of the liquid paste to be forced through them. The platform B is slidably mounted in the frame A.

F, F are plungers adapted to pass through the cups C, C and into the tubes D, D. The plungers F, F are adjustably attached to the shelf G.

G is a shelf fixedly attached to the frame A above the platform B and so constructed and arranged that the plungers F may be adjustably attached thereto by their upper ends, leaving the lower ends extending through the cups C, C so that when the platform B carrying the cups C, C is raised the plungers F, F will pass into the tubes D, D and the lower ends of the plungers F, F come close to the bottom of the caps E, E.

H, H are sleeves mounted adjustably upon the plungers F, F. Mounted upon the lower ends of the sleeves H, H are small valves or circular plates I, I. The sleeves H, H are so adjusted upon the plungers F, F that when the cups C, C containing the paste are raised the valves I, I will reach the top of the tubes D, D forcing the paste into the tubes and as the platform carrying the cups raises and descends the valves I, I keep the paste stirred and properly mixed and at the same time the plungers F, F reaching the bottoms of the tubes force the paste through the perforations in the caps E, E. The amount of paste to be forced through the perforations of the caps E, E is readily determined by the adjustments of the plungers F, F and the sleeves H, H.

The platform carrying the paste cups is slidably mounted in the sides of the frame A and raised by the foot pedal attached to the lower part of the frame.

J is the foot pedal.

K is a cord attached to the foot pedal one end and passing over the sheaves L and M and attached to the platform B at the other end, as shown in Figs. 2 and 3, so that operating the foot pedal J operates the platform B and the platform B having sufficient weight descends of itself when the pressure is removed from the foot pedal.

N is a table located under the tubes D, D and slidably mounted in the frame A so as to be adjusted by the thumb-screws O, O at any proper height.

5 T represents a pile or stack of collar blanks or other material desired to be pasted which are deposited upon the table N under the tubes D, D.

10 The operation of my pasting machine is evident from the foregoing description.

The cups C, C are filled with paste of the desired consistency. The articles desired to be pasted are located on the table N. The table N is adjusted to such a height that the  
15 perforated caps E, E will rest upon the top of the collars or other articles desired to be pasted when the platform is at rest and in normal position. The plungers F, F are so adjusted that the lower ends of the plungers  
20 will come near the perforated ends of the caps when the platform B is raised by the power applied to the foot pedal J and the sleeves H, H are at the same time so adjusted that the valves or circular plates I, I  
25 will reach the bottom of the cups C, C over the ends of the tubes D, D when the platform is raised. When the parts are so adjusted and the goods to be pasted are deposited upon the table N, as described, the  
30 operator raises the platform B by the foot pedal J. As the platform B ascends the plungers F, F and the valves I, I mix the paste and force it into the tubes D, D and through the perforations at the bottoms of  
35 the caps so that the paste will stand in small drops on the bottom of the caps E, E as shown in Fig. 4. The power is then removed from the foot pedal and the platform descends by its own weight carrying  
40 the caps E, E down in contact with the first layer of the goods on the table N and depositing the predetermined amount of paste on the top layer of the goods where the  
45 caps come in contact with the same. On again operating the pedal the top layer of the goods, if light as is usual in collar factories, will stick to the ends of the caps and be carried upward from the pile. The operator  
50 working the foot pedal with his feet has his hands free to take the piece already pasted and deposit it as in the drawer P in front of the machine or upon the table, as desired.

Of course, it is evident that the cups and  
55 plungers located upon the platform B may be in a straight line or may be arranged in any varied positions, as may be desired, or there may be one or any number which the machine will hold, so as to deposit the paste  
60 in straight lines or in irregular positions, as may be determined and as may be desired by the style or shape of the goods to be pasted. The distance to which the platform may be raised may also be regulated by the  
65 blocks Q, Q and the thumb-screws R, R so

as to have the valves I, I as near the top end of the tubes D, D as may be desired.

Constructed in this way my pasting machine may be used for pasting any kind of goods and the amount of paste to be used  
70 may be predetermined and regulated and the work done better and much more rapidly and economically than can possibly be done by hand.

What I claim as my invention and desire  
75 to secure by Letters Patent is—

1. A pasting machine consisting of a frame, a vertically movable platform mounted in said frame, a shelf fixedly mounted in said frame above said movable platform, plungers attached to said shelf extending  
80 downward and adapted to enter cups located upon said movable platform when said platform is raised, cups mounted upon said platform adapted to contain paste, an adjustable table mounted in said frame beneath said movable platform adapted to hold goods to be pasted, means for operating  
85 said movable platform and means for conducting the paste from said cups to the goods located upon said table.

2. A pasting machine consisting of a frame, a vertically movable platform mounted in said frame, cups mounted upon said platform and adapted to hold paste, tubes  
95 extending from said cups perpendicularly downward and adapted to convey the paste downward, adjustable perforated caps adapted to fit upon the lower ends of said tubes, plungers fixedly attached to said  
100 frame above said cups and adapted to pass through the cups and into said tubes when said platform is raised and a foot pedal mounted in said frame adapted to operate said platform.

3. A pasting machine consisting of a frame, a vertically movable platform mounted in said frame, cups mounted upon said platform and adapted to hold paste, tubes  
105 extending from said cups downward and adapted to convey the paste downward, adjustable perforated caps adapted to fit upon the lower ends of said tubes, plungers fixedly attached to said frame above said cups and adapted to pass through the cups and  
110 into said tubes, adjustable circular plates mounted upon said plungers and adapted to force the paste contained in said cups into said tubes and a foot pedal mounted in said frame and adapted to operate said platform.

4. A pasting machine consisting of a frame, a vertically movable platform mounted in said frame, cups mounted upon said platform and adapted to hold paste, tubes  
115 extending from said cups downward and adapted to convey the paste downward, adjustable perforated caps adapted to fit upon the lower ends of said tubes, plungers fixedly attached to said frame above said cups and adapted to pass through the cups and  
120

into said tubes, adjustable circular plates mounted upon said plungers and adapted to force the paste contained in said cups into said tubes, a foot pedal located in said frame and intermediate means from said foot pedal to said platform by which said platform is adapted to be operated by said foot pedal.

5  
10  
15  
5. A pasting machine consisting of a frame, a vertically movable platform mounted in said frame, cups mounted upon said platform and adapted to hold paste, tubes extending from said cups downward and adapted to convey the paste downward, adjustable perforated caps adapted to fit upon the lower ends of said tubes, plungers fixedly attached to said frame above said cups and adapted to pass through the cups and

into said tubes, adjustable circular plates mounted upon said plungers and adapted to force the paste contained in said cups into said tubes, an adjustable table mounted in said frame under said tubes, a foot pedal located in said frame and intermediate means from said foot pedal to said platform by which said platform is adapted to be operated by said foot pedal, substantially as described for the purposes set forth.

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

SARKIS STEPHENS YENOVKIAN.

Witnesses:

RETA VAN DER VOLGEN,  
J. W. BURROWS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."