

No. 629,348.

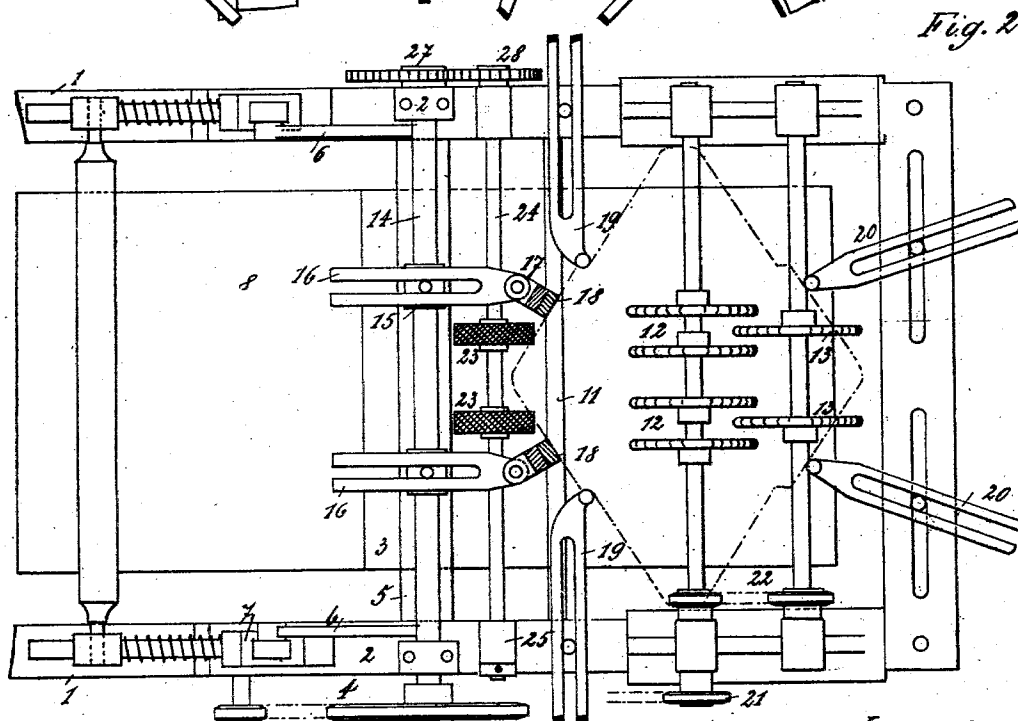
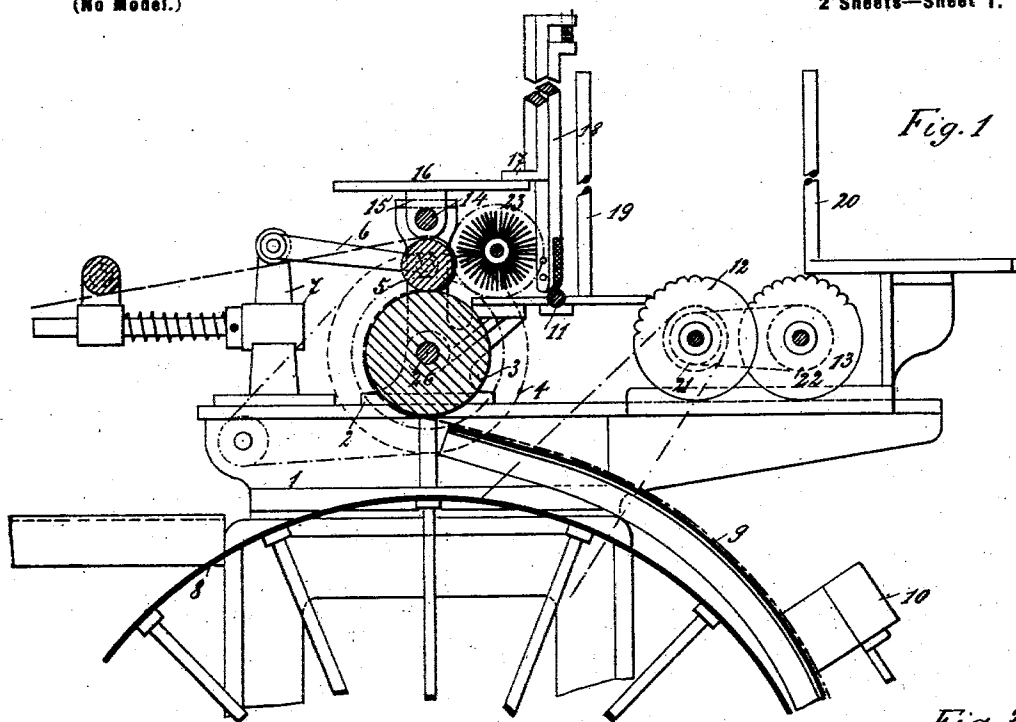
Patented July 25, 1899.

R. E. FISCHER.
ENVELOP MUCILATING MACHINE.

(Application filed June 11, 1898.)

(No Model.)

2 Sheets—Sheet 1.



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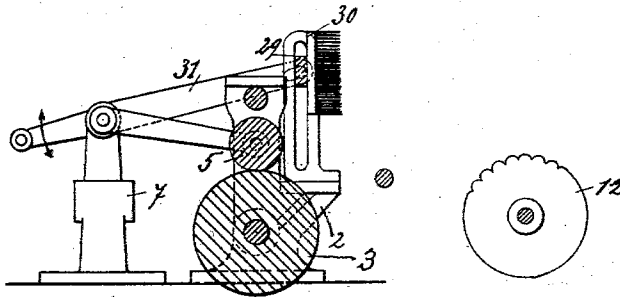
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2 Sheets—Sheet 2.

Fig. 3



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UNITED STATES PATENT OFFICE.

ROBERT ERNST FISCHER, OF BARMEN, GERMANY.

ENVELOP-MUCILATING MACHINE.

SPECIFICATION forming part of Letters Patent No. 629,348, dated July 25, 1899.

Application filed June 11, 1898. Serial No. 683,194. (No model.)

To all whom it may concern:

Be it known that I, ROBERT ERNST FISCHER, a subject of the King of Prussia, German Emperor, residing at Barmen, in the Province of Rhenish Prussia, Germany, have invented new and useful Improvements in Envelop-Mucilating Machines, of which the following is a specification.

My invention has reference to machines for mucilating envelop-blanks and the like, and has for its object to provide such a machine in which are combined simplicity of construction and effectiveness in operation and which will overcome the many disadvantages due to the use of the existing machines and increase the capacity.

The invention consists of a mechanism for separating the envelop-blanks individually from the stack, and its general improvement consists in the arrangement of a pair of rotating or otherwise moved brushes adapted to strike the pile of blanks and preventing the upward crease of the flap edges of single envelops.

The invention will hereinafter fully and clearly appear from a reading of the following description, taken in connection with the accompanying drawings, in which—

Figure 1 illustrates the separating mechanism in a vertical section. Fig. 2 is a plan view thereof. Fig. 3 is a modification of the device, illustrating a varied movement of the brushes.

In the frame 1 of the machine is suitably journaled by bearings 2 the blank receiving and guiding roller 3, which is set in motion by chain-gear 4. This roller is touched on top by a second roller 5, which is rotatably fitted to arms 6, which are pivotally secured to standards 7. Underneath the roller 3 is arranged the drum 8 for guiding the mucilated blanks, and in front of this drum is secured to the frame a curved supporting-table 9, on which are carried the blanks to be gummed by the mucilage-fountain 10. The blank-stack is put in the machine and rests on a rod 11 and striking-rollers 12 13, of which a number are provided in the manner as shown in Fig. 2. The striking-rollers are driven by chain-gear 21 22.

In order to hold the stack in position, the following means are provided: To the bear-

ings 2 is fitted immovably a bar 14, to which are fixed the adjustable sockets 15. The sockets 15 carry the adjustable slotted bars 16, to which are pivoted the vertical standards 17, serving as support for the rods 18, which are adjustable in vertical and horizontal position, so that they may be arranged with respect to the size of the blanks. To the frame are fixed the auxiliary gages 19, holding the stack from both sides, and the gages 20, which are arranged to secure the stack from behind.

So far as described the device is not novel either in the general arrangement or in operation.

My invention consists in improving the operation of the machine, for it often happens that the action of the rollers 12 13, which strike against the bottom level of the stack in order to separate them individually, is insufficient and the single blanks are not properly carried forward to the receiving-rollers 3 5. To prevent this drawback, I fit the rear gages 18 at their lower ends with an elastic material, as india-rubber or the like, so as to gain an elastic abutment for the forwardly-driven blanks. I further arrange between the receiving-rollers 3 5 and the blank-pile a pair of brushes 23. These brushes are fixed to a shaft 24, which is journaled in bearings 25 of the machine and driven in the direction of the arrow from the roller-shaft 26 by means of toothed gear 27 28. The brushes in rotation are arranged to strike the inner vertical pile-surface from above to below, removing thus the bur which is produced by cutting the pile out, so that it is now impossible for a single blank to slip forward earlier than its fellow below it and that its flap edges may be creased upward. By this means no disturbance occurs in the machine, and the single blanks are properly guided into the receiving-rollers 3 5. The brushes 23 may, it is manifest, be also otherwise moved, as just described.

In Fig. 3 I have shown a modification of the brushes. Here they are fitted to a bar 29, which is vertically guided by slotted standards 30. A lever 31, pivoted to the standard 7, imparts, when correspondingly moved, vertical motion to the bar, so that the brushes may strike the pile in traveling up and down.

The blanks may be carried down from the

roller 3 to the way 9 in different manner. The
mostly used consists in furnishing the blanks
by a pair of endless bands, which tangent the
circumference of roller 3 and touch the way
5 9, traveling over it.

Having now fully described my invention,
I declare that what I claim is—

10 In an envelop-mucilating machine, the combination of means for supporting a pile of
blanks, means for feeding the blanks singly
to the receiving-rollers, and means consisting
of a brush movable across the face of the pile

and located between the receiving-roller and
the pile, for wiping the face of a pile of blanks
in order to prevent more than a single blank 15
being fed at a time, substantially as specified.

In testimony that I claim the foregoing as
my invention I have signed my name in the
presence of two subscribing witnesses.

ROBERT ERNST FISCHER.

Witnesses:

R. E. JAHN,
OTTO KÖNIG.