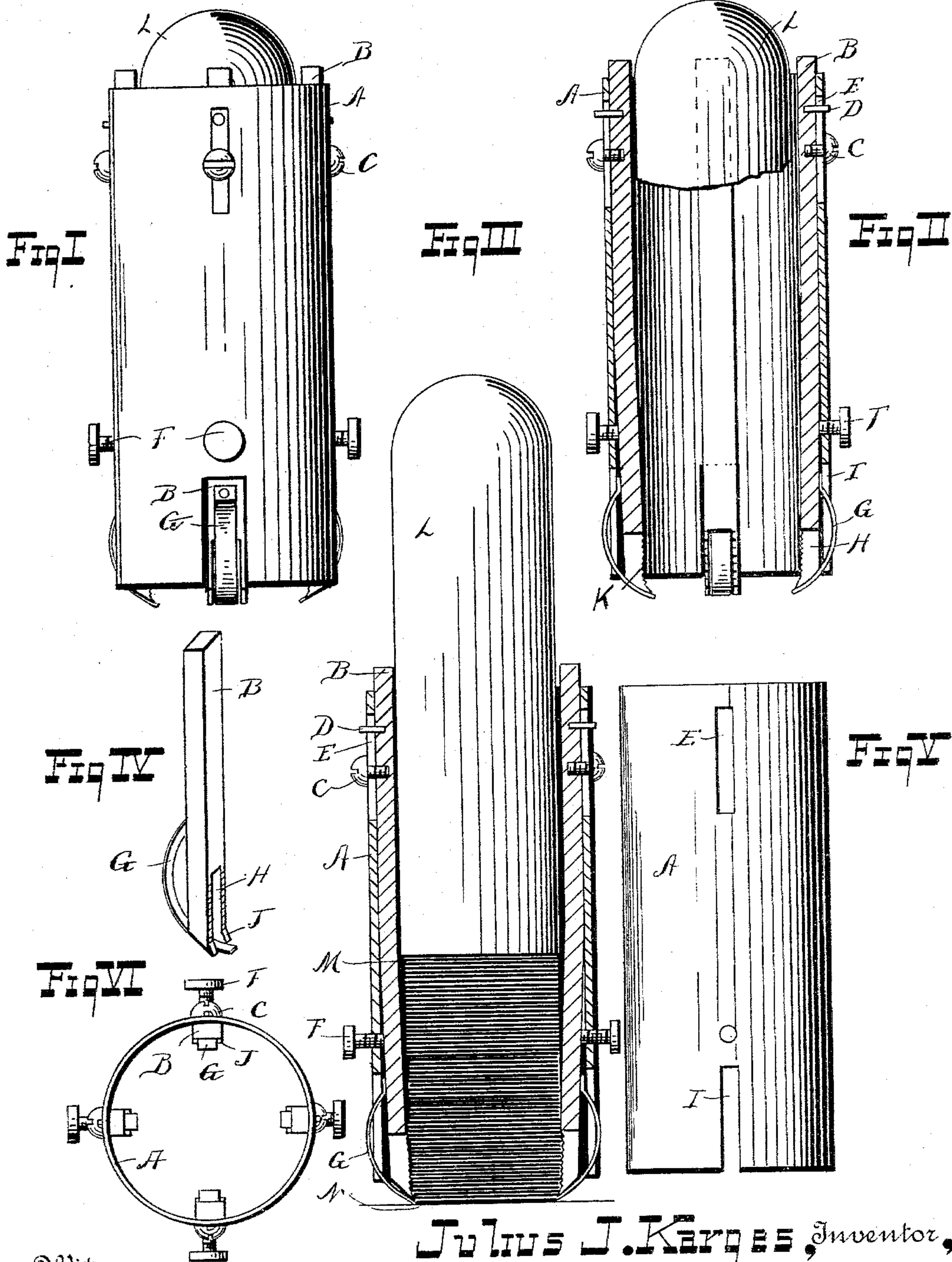


(No Model.)

J. J. KARGES.
LABEL OR STAMP AFFIXING MACHINE.

No. 597,720.

Patented Jan. 25, 1898.



Witnesses.
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By

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UNITED STATES PATENT OFFICE.

JULIUS J. KARGES, OF KANSAS CITY, MISSOURI.

LABEL OR STAMP AFFIXING MACHINE.

SPECIFICATION forming part of Letters Patent No. 597,720, dated January 25, 1898.

Application filed February 10, 1896. Serial No. 578,820. (No model.)

To all whom it may concern:

Be it known that I, JULIUS J. KARGES, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Label or Stamp Affixing Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to improvements in label-affixing machines.

The object of my invention is to provide a machine or apparatus for affixing labels or stamps upon any desired object.

15 My invention has for its object more particularly the providing of label-affixers in which the labels or stamps are held between guides which are capable of adjustment toward and from the pile of labels, whereby the apparatus is adapted to be used with labels of different shape or size and various degrees of pressure may be applied to the pile for the purpose of better affixing the labels one at a time.

25 My invention consists, further, in providing a framework having guides between which the labels are held, vertically and horizontally adjustable thereon, whereby the apparatus may be adapted to various shapes of labels.

30 My invention further provides one or more movable arms normally holding the bottom label, but capable of being withdrawn therefrom when the label is affixed to the object desired.

35 My invention further provides novel features of construction hereinafter fully described and claimed.

In the drawings herewith presented as illustrating my invention, Figure 1 represents an elevation view. Fig. 2 represents a vertical sectional view of the affixer, showing an empty magazine and the lower portion of the plunger L broken away. Fig. 3 represents a vertical sectional view showing a number of the labels 45 in the magazine, one of which has just been affixed, as indicated by N. Fig. 4 represents a perspective view of the guiding-rod B, having secured to it the retaining spring-arm G. Fig. 5 represents an elevation view of the magazine. Fig. 6 represents a plan view of the invention with the plunger removed.

Similar letters of reference indicate similar parts.

A indicates a vertical tube, preferably metallic, and having secured to its inner wall at equal distances apart the vertical guiding-rods B. The said guiding-rods are adjustably secured at their upper ends only to the tube A, the lower ends being free to be moved radially forward or backward in the tube A. This is accomplished by means of a set-screw F, operating in a screw-threaded opening in the side of the tube A opposite each rod near its lower end. Opposite the upper part of each guiding-rod B a vertical slot E is provided in the tube A. Through this slot extends a screw C, the head of which is wider than the slot and is located outside of the tube A. The opposite end of the screw C enters a screw-threaded opening in the guiding-rod. A pin D also passes through the slot E and is secured at its inner end to the guiding-rod. The pin D and the screw C serve to retain the guiding-rod in position vertically. In the use of gummed labels, for the reason that the labels are normally curved or convex upon their upper sides, it is necessary to adjust the guiding-rods vertically so that their lower ends shall have the proper relation to the undermost labels, and for this purpose the guiding-rods may be adjusted vertically to any desired position by loosening the screws C, placing the rods in the position desired, and then tightening the screws C.

The adjustment vertically of the guides is desirable for the reason that in the use of gummed labels, the labels usually assume a curved form when held between the guides, due to the mucilaginous coating on them, and owing to this curvature of the labels, vertical adjustment of the guides is requisite in order to have all the guides properly engage the lower labels.

Each of the rods B is provided with transverse serrations or teeth K for the purpose of better retaining the lower labels in the magazine. To each of the rods B, near its lower end and upon its outer side, is secured the upper end of an outwardly-curved spring retaining arm or finger G, the lower end of which is curved inwardly and passes through a vertical slot cut in the lower end of the rod

B. A slot I is provided in the lower end of the magazine opposite the spring-arm G. The extreme lower ends of the rods B are provided each with a narrow inwardly-extending projection J, the upper side of which is downwardly beveled. This beveled projection serves to retain the next to the lowest label when the arms G are in the position shown in Fig. 3 and during the removal of the bottom label or stamp. Fitted loosely in the magazine and between the guiding-rods is a plunger L, made of any suitable material. The function of this plunger is to force the stamps or labels downward and to cause the lowest label or stamp to be securely affixed to the object desired by means of pressure applied to the plunger.

My invention is operated as follows: The labels are placed in a pile between the guiding-rods B of the magazine, with the gummed side of each label down and the bottom label resting against the spring-arm G. The presser or plunger L is then placed in the position shown in Fig. 3, so that a bearing may be made against the top of the pile. The bottom label or stamp is then applied to a wetting-pad or other moistening device, after which it is applied to the object to which it is to be affixed. Pressure is then applied to the plunger L, thus firmly pressing the label or stamp to the surface upon which it is to be secured. The pressure on the plunger is then removed and the magazine is withdrawn. The bottom stamp adheres to the surface against which it has been placed, and when the magazine is withdrawn the adhered stamp or label causes the spring-arms G to be pressed outward into the position shown in Fig. 3. The projection J prevents the next label from being withdrawn at the time the bottom label is detached from the pile. The movable spring-arms G serve to prevent the plunger L from forcing any of the labels or stamps out of the magazine at the time force is applied to it for the purpose of affixing the bottom label firmly in the place where it is to be secured. I have found it desirable for the successful working of the mechanism to employ a contracted exit for the labels, together with one or more movable arms similar to the arms G, in order to insure the withdrawal of a single label or stamp at a time.

The form of holder may be materially varied from the one I have shown, and the guiding-rods B are capable of being much modified in construction. Other forms of retaining-arms to take the place of the retaining-arms G may be used. It is desirable, however, to have a contracted exit to the holder of the pile, so that the pile of labels or stamps will be held securely during the operation of removing the bottom one. It is also desirable to have a retaining device, such as the spring-arms G, besides the contracted exit, which shall remain under the bottom label when the pressure is applied to

the pile, and which will be withdrawn from under the label after the label has been secured in the desired place. I have shown a form of magazine adapted to be used with round stamps or labels; but it is evident that the guiding-rods may be so disposed as to serve as guides for any desired shape of label or stamp, and the magazine may be of any suitable design and form without departing from the spirit of my invention.

The plunger L may be in some instances dispensed with and the finger used instead for forcing the pile of labels downward. In applying labels that are not gummed when placed in the magazine a gumming instead of a moistening pad should be used, as hereinbefore described.

When the stamp or label is pressed against the surface to which it is to be affixed, the free ends of the spring-arms G remain under the label, thus holding the stamp or label within the magazine during the time that the plunger is having pressure applied to it, but are withdrawn therefrom when the magazine is withdrawn.

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

1. In a label or stamp affixer of the kind described, the combination with a tube vertically disposed, of a plurality of guiding-arms longitudinally arranged around the inner wall of the tube and contractible at their lower ends, a movable arm or arms normally extending under the bottom label and within the inner side of the guiding-arms but adapted to be forced outward beyond the said inner side of the guiding-arms after the label has been affixed, substantially as described.

2. In a label or stamp affixer of the kind described, the combination with a vertical tube, of a plurality of guides arranged around the inner wall of the tube and provided each with an inwardly-extending projection at its lower end, a spring-arm secured at one end to each guide, the other end normally extending toward and beyond the inner side of the guide, but adapted to be forced outwardly after the label has been affixed, substantially as described.

3. In a label or stamp affixer of the kind described, the combination with a suitable framework, of a plurality of guides adjustable thereon and radially adjustable at their lower ends and adapted to hold between them the pile of labels, and a plurality of movable arms one end of each arm normally resting upon the under side of the bottom label but adapted to be withdrawn from thereunder after the label has been affixed, substantially as described.

4. In a label or stamp affixer of the kind described, the combination with a tube A, of the guides B, secured therein and radially adjustable at their lower ends, the spring-arms G, secured to the guides B, and having their

lower ends normally extending within the inner side of the guides, B, substantially as described.

5 In a label or stamp affixer of the kind described, the combination with the frame A, of the guides, B, secured therein and having transverse corrugations near their lower ends, a movable arm connected at one end to each guide and having the free end normally with-
10 in the inner side of the guide, and a plunger L, substantially as described.

6. In a label or stamp affixer of the kind described, the combination with suitably-supported guides between which the labels are
15 held, of means for adjusting the guides relatively to the pile of labels, and one or more releasable catches normally engaging the bottom label, but released therefrom after the label has been affixed, substantially as de-
20 scribed.

7. In a label or stamp affixer of the kind described, the combination with suitably-supported guides between which the labels are held, of means for adjusting the guides rela-
25 tively to the pile of labels, and one or more spring-actuated catches normally engaging the bottom label but adapted to be released therefrom when the label is affixed, substantially as described.

30 8. In a label or stamp affixer of the kind described, the combination with suitably-supported guides between which the labels are held, of means for adjusting the guides relatively to the pile of labels, one or more rigid
35 retaining devices and one or more releasable retaining devices adapted to engage the bottom label, the releasable retaining devices being adapted to release the label when it has been affixed, substantially as described.

40 9. In a label or stamp affixer of the kind described, the combination with suitably-supported guides between which the labels are held, the said guides being adjustable toward and from the pile, and provided near their
45 lower ends with one or more inwardly-extending projections, of one or more releasable catches normally engaging the bottom label, said catches being released from the bottom label when it has been affixed, substantially
50 as described.

10. In a label or stamp affixer of the kind described, the combination with a support, of guides for the pile of labels, one set of ends of the guides being adapted to be secured rigidly to the support and the free ends of
55 the guides being movably adjustable toward or from the pile of labels, substantially as described.

11. In a label or stamp affixer of the kind described, the combination with a support, of
60 guides one set of ends of which are rigidly secured to the support, and means for adjusting the free ends of the guides toward or from the pile of labels held between the guides, substantially as described. 65

12. In a label or stamp affixer of the kind described, the combination with a support, of guides for the labels having one set of ends secured to the support and vertically adjust-
70 able thereon, and means for adjusting the free ends of the guides toward or from the pile of labels, substantially as described. 75

13. In a label or stamp affixer of the kind described, the combination with a support, of guides mounted thereon for the pile of labels,
75 and means by which the pressure upon the lower labels may be varied without affecting the upper labels, substantially as described.

14. In a label or stamp affixer, the combination with a support adapted when in use
80 to be held in the hand of the operator and provided with side walls, of guides between which the pile of labels is held and which are secured to the side walls, and means for adjusting the guides toward and from the said
85 side walls, substantially as described.

15. As an article of manufacture, a portable label or stamp affixer comprising a tubular frame adapted to be held in the hand of
90 the operator when in use, and label-guides supported by the inner walls of the tubular frame and adjustable toward and from the same, substantially as described.

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

JULIUS J. KARGES.

Witnesses:

WARREN D. HOUSE,
R. P. WHITE.