

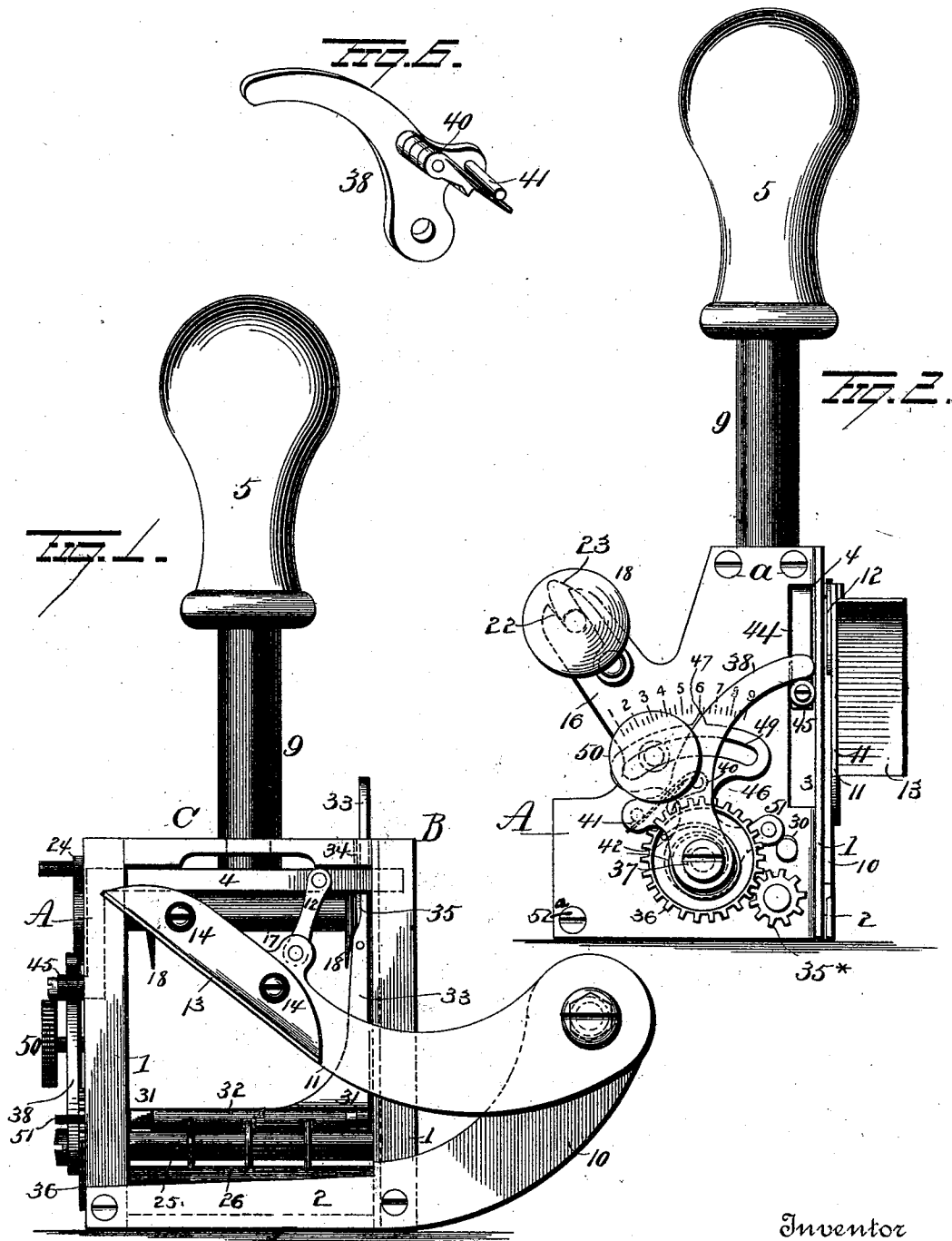
(No Model.)

2 Sheets—Sheet 1.

A. HEIM.
MACHINE FOR ATTACHING ADDRESS LABELS.

No. 512,295.

Patented Jan. 9, 1894.



Witnesses
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G. F. Downing.

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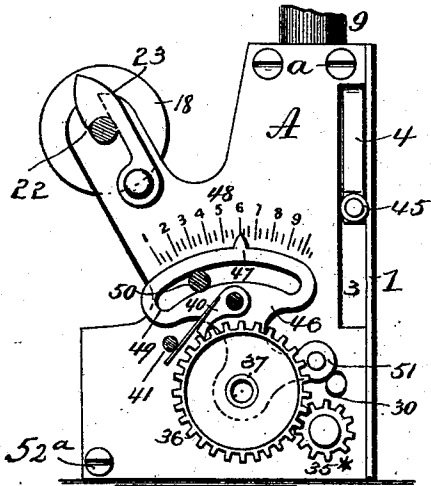


Fig. 4.

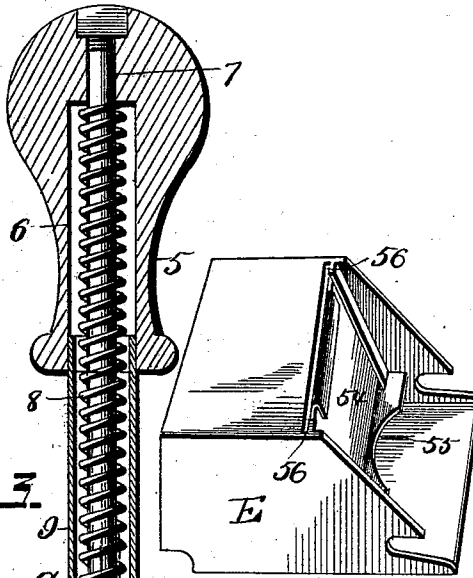


Fig. 3.

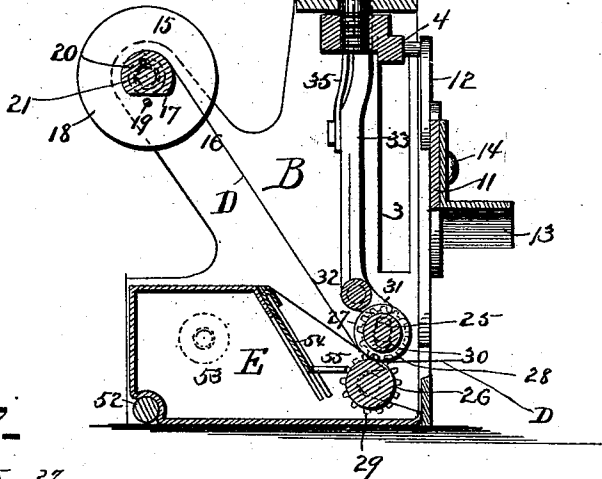


Fig. 5.

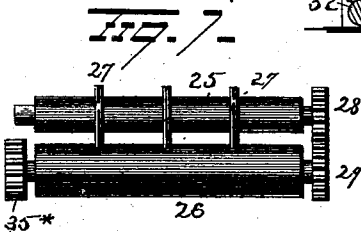


Fig. 7.

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UNITED STATES PATENT OFFICE.

ADAM HEIM, OF BROWNSVILLE, INDIANA, ASSIGNOR OF SEVEN-SIXTEENTHS
TO GEORGE W. HEIM, OF SAME PLACE.

MACHINE FOR ATTACHING ADDRESS-LABELS.

SPECIFICATION forming part of Letters Patent No. 512,295, dated January 9, 1894.

Application filed June 6, 1892. Serial No. 435,766. (No model.)

To all whom it may concern:

Be it known that I, ADAM HEIM, of Browns-
ville, in the county of Union and State of In-
diana, have invented certain new and useful
5 Improvements in Machines for Attaching Ad-
dress-Labels; and I do hereby declare the fol-
lowing to be a full, clear, and exact description
of the invention, such as will enable others
skilled in the art to which it appertains to
10 make and use the same.

My invention relates to an improvement in
machines for attaching address labels and it
consists in certain novel features of construc-
tion and combinations of parts which will be
15 hereinafter described and pointed out in the
claims.

In the accompanying drawings, Figure 1 is
a side elevation. Fig. 2 is a front elevation.
Fig. 3 is a transverse section, and Figs. 4, 5, 6
20 and 7 are details.

A and B represent front and rear plates
and C the top of the machine. These parts
are secured together by screws *a, a*, or similar
devices whereby a rigid frame is formed for
25 the machine. The plates A and B are bent
laterally forming flanges 1, 1 and to the latter
the rigid blade 2 of the cutters is secured so
that the plates A and B at this point are held
together securely by the blade. Immediately
30 in rear of the flanges 1, 1, narrow vertical
slots 3, 3, are formed and in these slots the
ends of a reciprocating plunger 4 are guided.
Connected with this plunger is the handle 5.
The handle is bored out as at 6 and in it a
35 threaded bolt 7 of less diameter than the bore
is located thus leaving a space around the
bolt. A spiral spring 8 surrounds this bolt
and bears on the top C whereby to throw the
handle upward and as the threaded end of the
40 bolt is screwed into a hole in the plunger the
plunger is likewise held upward normally so
that to depress the latter it is simply necessary
to push down upon the handle, the tension of
the spring being sufficient to raise both han-
45 dle and plunger as soon as the operator re-
leases the handle or removes the pressure ap-
plied thereon. A sleeve 9 projects unwardly
from the top around the spring into the bore
of the handle. In this way the spring and
50 bolt are concealed and the spring is pro-
tected.

An upwardly and rearwardly projecting
arm 10 forming a continuation of blade 2 has
pivoted to its outer end a movable blade 11.
The shape of this pivoted or movable blade 55
is substantially the same as the blade 2 and
its arm 10, the object of thus pivoting at one
side and above the cutting edge of the rigid
blade being to insure a shearing contact be-
tween the blades as they come together. This 60
blade is operated by means of a link 12 which
is pivotally connected with the plunger and
the pivoted blade so that as the plunger moves
the blade moves, the link being provided to
allow for the curved arc which the pivoted 65
blade follows. The pivoted blade is furnished
with a laterally projecting flange 13 which
constitutes a tab press, it being adapted to
press the label upon the article to be labeled
as fast as they are severed from the strip. 70
This tab press may be removably secured to
the pivoted blade by screws 14, 14 or equiva-
lent means as shown.

D represents the printed strip from which
the labels are cut as they are required. The 75
strip is wound on a reel or spool 15 and this
reel or spool is removably and revolvably sup-
ported in arms 16, 16, projecting laterally
from the plates A and B. The reel or spool
consists of a spindle preferably flattened as 80
at 17 on one side, having the circular flanges
18, 18, at its ends and provided with a bar 19
opposite and slightly removed from the flat-
tened side of the spindle, and between this
rod or bar 19 and the flattened face on the end 85
of the strip is inserted to hold it from slip-
ping as it is wound around the reel or spool.
A small spiral spring 20 forces the reel or
spool endwise with sufficient pressure to af-
ford enough friction to prevent the strip from 90
pulling off too rapidly. In order to readily
insert or remove the reel or spool one of the
arms 16 is provided with a hole 21 to receive
one end of the spindle and the other with an
open slot 22 to receive the opposite end of the 95
spindle, and in order to lock the reel in a hook
shaped catch 23 it is pivoted in position to
swing over this spindle to retain it in the
slot. To facilitate in reeling the strip a crank
24 is provided at one end. The opposite end 100
of the strip is passed between a pair of feed
rollers 25 and 26 which feed it to the knives

in proper widths. The lower roller 26 is preferably plain while the upper one 25 is provided with annular ribs or rings 27 adapted to engage the strip and hold it at these points
 5 against the lower roller. On corresponding ends the rollers are provided with pinions 28 and 29 which are intergeared so that the rollers turn together and motion is imparted from the lower one to the upper one. The upper
 10 roller is journaled in vertical slightly elongated slots 30, 30 which admit of the upper roller being raised a trifle to allow the strip to be inserted between them. This upper roller is held in a depressed position and in
 15 contact with the lower roller by means of the shoes 31, 31, projecting from the rock shaft 32. An arm 33 projecting upwardly from this rock shaft extends through a slot 34 in the top C and a spring 35 secured to this arm
 20 and bearing at one end at an end of the slot normally rocks the rock-shaft to force the shoes down against the upper feed roller 25. So in order to insert the strip the operator forces this arm in the opposite direction as far
 25 as the slot 34 will allow. This affords sufficient space between the feed rolls for the paper to be slipped through easily.

The feed rollers are rotated to feed the strip by the following means: A pinion 35* is secured on the forward end of the lower feed
 30 roller 26 and a larger toothed wheel 36 is revolvably supported on a pin 37 so that the teeth of the large wheel are in engagement with the teeth of the pinion 35*. An arm 38 pivoted on this pin 37 has one or more spring
 35 actuated or spring pawls 40, the spring or springs of this pawl or pawls bearing against a pin 41, the function of the pawl or pawls being to engage teeth on the large wheel 36
 40 when the arm rises to its normal position and thus turn the wheel and consequently the roller 26 and roller 25. A spring 42 connected with the arm 38 tends to force the latter downward and a depending arm 44 on the
 45 adjacent end of the plunger has a roller 45 thereon upon which the curved end of arm 38 rests so that the latter is carried to its normal or elevated position by the plunger as the latter rises and as the plunger is depressed
 50 the spring 42 causes the arm 38 to swing downward and thus follow it. When the arm 38 swings downward the pawl or pawls 40 ride over the teeth of wheel 36 to take a new hold, the wheel at that time remaining immovable
 55 but when the arm 38 moves upward the wheel is moved a distance corresponding to the length of vibration of the arm. The length of these vibrations are regulated by the following means, the object being to regulate
 60 the width of the labels. A plate 46 is mounted on the pin 37. This plate is provided with a pointer 47 adapted to point to a scale 48 on the front plate A. This plate has a curved elongated slot 49 formed in the arc of a circle
 65 whose center is the pin 37 and a thumb screw 50 extends through this slot into plate A and is adapted to be turned to lock the

plate in different positions. A stop 51 projects from the plate in position to be struck
 70 by arm 38 when the latter swings downward so that length of swing or vibration of this arm depends entirely upon the position of the stop and the position of the stop is changed by changing the position of the plate 46 relative to the scale. In this way the labels may
 75 be cut-off in wide or narrow strips as desired.

E is a paste box. This is constructed to fit between the front and rear plates A and B one end being fitted to the trunnions of the
 80 lower roller 26 and its opposite end formed with a recess or notch in which a bar 52 extending from one plate A to plate B is secured. This bar is preferably held in place by a screw 52* at each end. A setscrew 53 holds
 85 the box in place. The end of the box adjacent to the feed rollers is provided with a slide door 54 which may be raised or lowered to regulate the supply of paste and this door is cut away as at 55 at its lower edge to permit
 90 the paste to pass out freely. The ends of the side door are held in guides 56, 56. The mouth of the paste box is in such position that the lower side of the strip is supplied with paste as fast as it is required and just
 95 before the labels are cut off from the main strip and pressed upon the paper or article to be labeled. The paste box may be removed by unscrewing set screw 53 and then forcing
 100 the box up over bar 52 and then it is easily withdrawn. The box is inserted in a reverse manner and secured in place by means of the set screw 53 as above stated.

The device is simple, easily supplied and manipulated, and effectually performs its
 105 functions and while for the most part I prefer to adhere to the construction shown and described, it is obvious that slight changes might be resorted to without departure from the spirit and scope of my invention and hence I do not wish to limit myself to the exact
 110 construction herein set forth, but,

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

1. The combination with a frame and plunger, of feed rolls, gearing for operating these
 115 rolls, a vibratory arm having means thereon for locking it to a part of the gearing as it vibrates in one direction, an adjustable stop to regulate the length of vibration of the vibratory arm said stop projecting from a plate
 120 pivoted at one side of the frame and an arm extending from the plunger to the vibratory arm, substantially as set forth.

2. The combination with a pair of feed rolls, and gear wheels, of a spring actuated arm,
 125 means for actuating the arm in the direction opposite to the action of the spring, and a pivoted plate having a stop thereon, adapted to be normally engaged by the arm and
 130 means for locking this pivoted plate in various positions, substantially as set forth.

3. The combination with a frame, having a scale thereon, of a pair of feed rolls inter-

geared whereby one is driven by the other, a vibratory arm for communicating intermittent motion to said rolls, a pivoted plate having a stop thereon, said plate slotted and provided with a pointer adapted to operate in connection with the scale, and a set screw for locking the plate in position, substantially as set forth.

4. The combination with a pair of feed rolls, one vertically movable and revolubly supported in vertical elongated slots, of a rocking shaft having presser shoes, and spring for holding said shoes yieldingly in contact with the vertically movable shaft, substantially as set forth.

5. The combination with a pair of feed rolls, one vertically movable and revolubly supported in vertical elongated slots, of a rock

shaft having presser shoes adapted to engage the vertically movable shaft, an arm connected with this shaft, and a spring for rocking the shaft so that the shoes are held yieldingly against the shaft, substantially as set forth.

6. The combination with a frame, of a paste box having an open side and a slide for opening and closing this open side, a shoulder formed in the box, a bar located in this shoulder and means for holding this rod or bar in place, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ADAM HEIM.

Witnesses:

GEO. W. SHOWALTER,
SAMUEL WINTERS.