

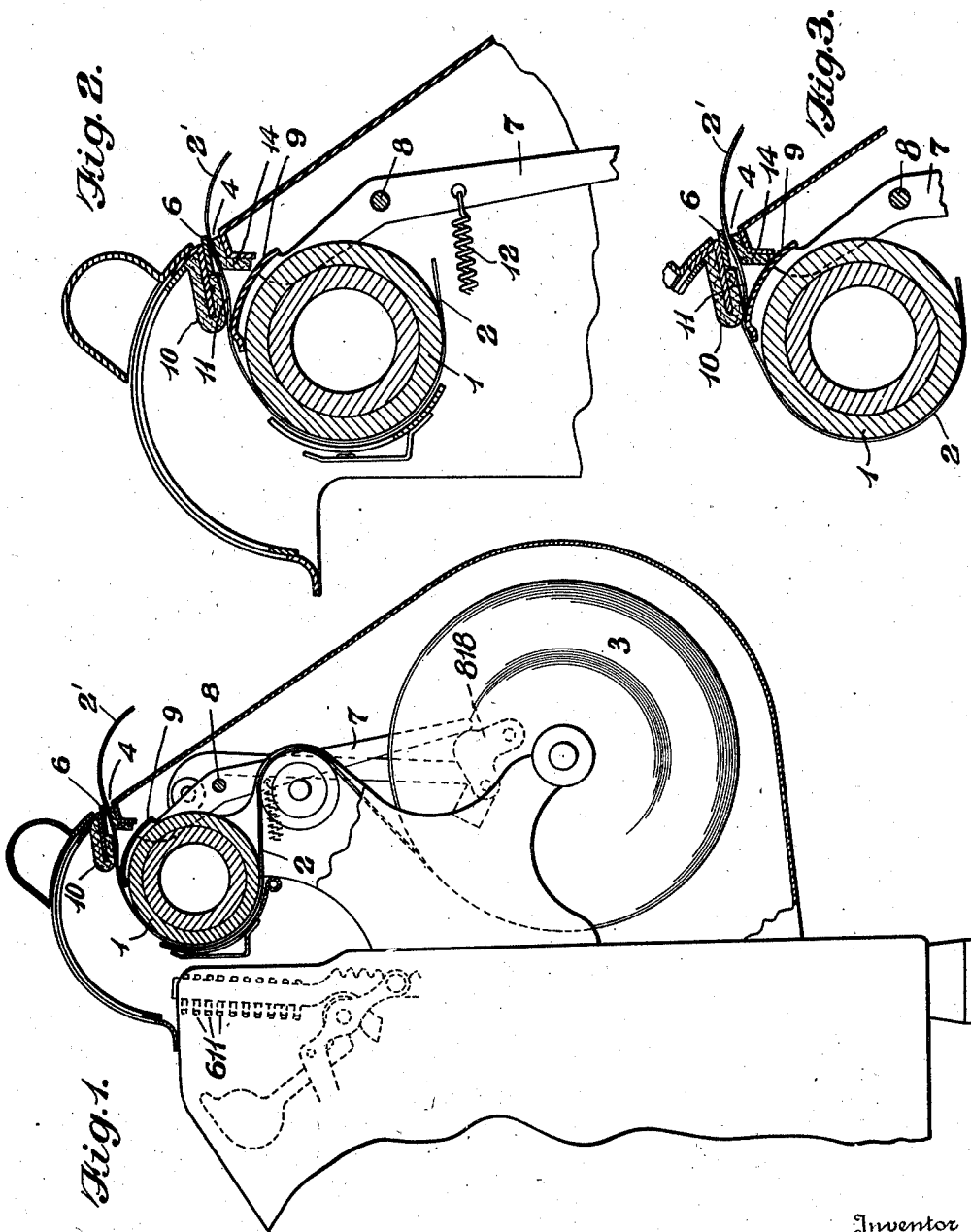
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LISTING MACHINE

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UNITED STATES PATENT OFFICE

2,164,227

LISTING MACHINE

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4 Claims. (Cl. 197—133)

The invention relates to listing machines, wherein items are listed upon a paper tape fed around a rotary platen step by step in the operation of the machine, a casing for the machine being equipped with the usual means for con-
fining the noise of the mechanism, preventing
vibration of the casing, etc. The paper tape is
fed from the platen through an exit slot of the
casing, and it is found in practice that the loose
end portion of this tape located without the cas-
ing, due to vibration communicated thereto by
the striking of the type bars of the printing
mechanism of the machine, makes an objection-
able crackling noise. It is an object of the in-
vention to provide simple and efficient means
for preventing this vibration and crackling noise
of the loose end portion of the tape.

The invention consists in the novel construc-
tion and combinations of parts as hereinafter set
forth in the claims.

In the accompanying drawing,

Figure 1 is a vertical transverse section of the
rear portion of the machine, showing the inven-
tion as applied, with the paper clamping means
released.

Figure 2 is a similar view of a portion of Figure
1 on a larger scale.

Figure 3 is a similar fragmentary view, show-
ing the paper clamping means engaged.

In the drawing wherein the invention is shown
as applied to a listing machine, such for in-
stance as disclosed in the United States patent
to L. P. Crosman, No. 1,932,013, issued October
24, 1933, the numeral 1 designates the rotary
platen, the paper tape 2, in the operation of the
machine being fed from supply roll 3 around said
platen and out through exit slot 4 of the casing
5 of the machine, a suitable tear-off member 6
being located adjacent said slot.

The machine casing is equipped with the usual
means for confining the noise of the mechanism,
preventing vibration of the casing, etc., and in
order to prevent objectionable crackling noise of
the loose end portion 2' of the paper tape lo-
cated without said casing, due to vibration com-
municated to said loose end portion in the strik-
ing of the type bars 611 of the printing mecha-
nism of the machine upon the paper tape as it
passes around the platen, clamping means for
the tape located adjacent said slot is provided,
said clamping means being described as follows:

A lever 7, fulcrumed at 8 is provided with an
upper arched plate 9 positioned with respect to
a yieldable felt abutment member 10 (when said
lever is disabled by lever 818 to be described) to

form a bend 11 in the paper tape during the
feeding thereof, enabling of said lever 7 by its
spring 12 upon retractive movement of lever 818
causing said arched plate of the lever 7 to, in
cooperation with said felt abutment strip, engage
said bend 11 of the tape and take up slack in and
draw said tape tightly against the platen 1 and
to so clamp the tape during the striking of the
type bars 611.

The lever 818 is part of the line spacing mech-
anism of the machine disclosed in the United
States patent to H. M. Fleming, No. 2,050,302,
dated April 11, 1936, the line spacing members
being given an idle upward movement near the
end of the forward reciprocation of the actu-
ating mechanism of the machine, thereby retract-
ing lever 818 from and admitting of the lever 7
being enabled by its spring 12. At approxi-
mately mid-cycle of machine operation the print-
ing hammers are released, the paper tape being
held clamped as above described at this time. At
the beginning of the reverse reciprocation of the
actuating mechanism of the machine, the line
spacing mechanism will be operated and lever
818 will be moved to disable the lever 7 and re-
lease the paper for feeding thereof.

The felt abutment member 10 is spaced for-
wardly of the tear-off edge of member 6 and of
a felt lining 14 for the lower surface of the tape
exit slot 4.

I claim:

1. In a listing machine having a rotary platen,
a paper tape supply roll, means for feeding the
tape from said roll around the platen, printing
mechanism including type bars for listing items
on said tape, and a casing having a tape exit slot;
clamping means for the tape located adjacent
said slot, and means for enabling and disabling
said clamping means during the operation of the
machine to prevent vibration and crackling of the
loose end portion of the tape located without the
casing during the striking of said type bars and
to release the tape during the feeding thereof.

2. In a listing machine having a rotary platen,
a paper tape supply roll, means for feeding the
tape from said roll around the platen, printing
mechanism including type bars for listing items
on said tape, and a casing having a tape exit
slot; clamping means for the tape located ad-
jacent said slot, and means for enabling and dis-
abling said clamping means during the opera-
tion of the machine to prevent vibration and
crackling of the loose end portion of the tape
located without the casing during the striking of
the type bars and to release the tape during the

feeding thereof, said clamping means including a movable member and a yieldable felt abutment member.

3. In a listing machine having a rotary platen, a paper tape supply roll, means for feeding the tape from said roll around the platen, printing mechanism including type bars for listing items on said tape, and a casing having a tape exit slot; clamping means for the tape located adjacent said slot, and means for enabling and disabling said clamping means during the operation of the machine to prevent vibration and crackling of the loose end portion of the tape located without the casing during the striking of said type bars and to release the tape during the feeding thereof, said clamping means including a movable member and a yieldable felt abutment member, the clamping member and the abutment member being positioned to form a bend in the tape and the clamping member being adapted in cooperation with said abutment member to engage said bend and take up slack in and draw the tape tightly against the platen.

4. In a listing machine having a rotary platen, a paper tape supply roll, means for feeding the tape from said roll around the platen, printing mechanism including type bars for listing items on said tape, and a casing having a tape exit slot; clamping means for the tape located adjacent said slot, and means for enabling and disabling the clamping means during the operation of the machine to prevent vibration and crackling of the loose end portion of the tape located without the casing during the striking of the type bars and to release the tape during the feeding thereof, said clamping means including a movable member and a yieldable felt abutment member and the walls of the tape exit slot including an upper tear off member and a lower yieldable felt member, the two felt members being located respectively above and below the tape and the felt abutment member being spaced forwardly of the other felt member.

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