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C. F. RÖBER ET AL  
APPARATUS FOR SUPPLYING ADHESIVE  
Filed June 14, 1940

Serial No.  
340,600  
2 Sheets-Sheet 1

Fig. 1

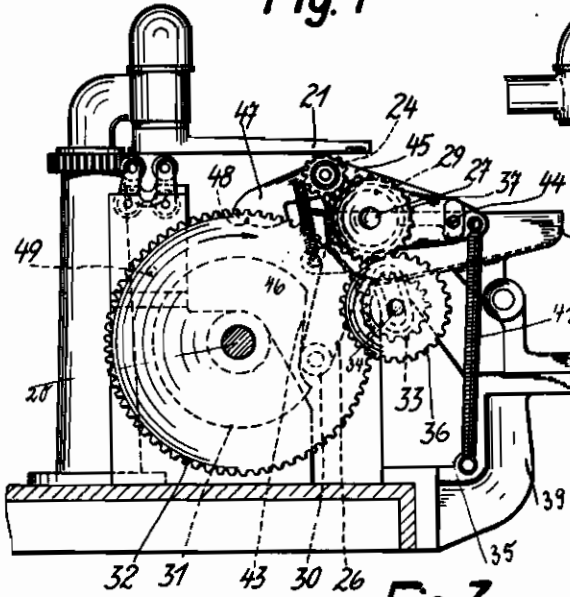


Fig. 2

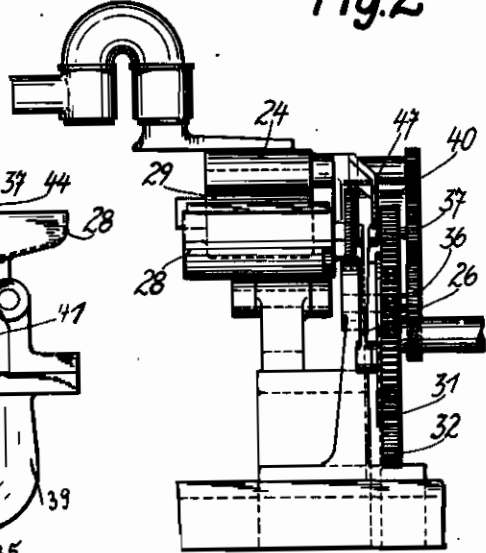


Fig. 3

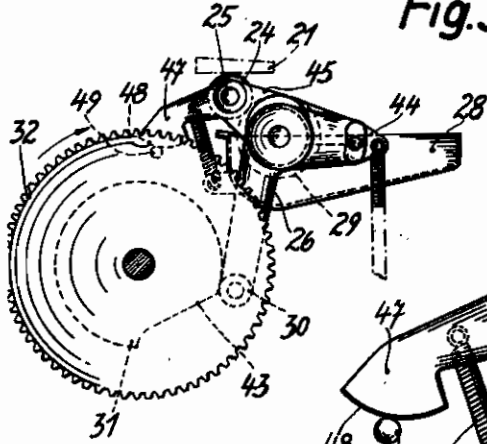
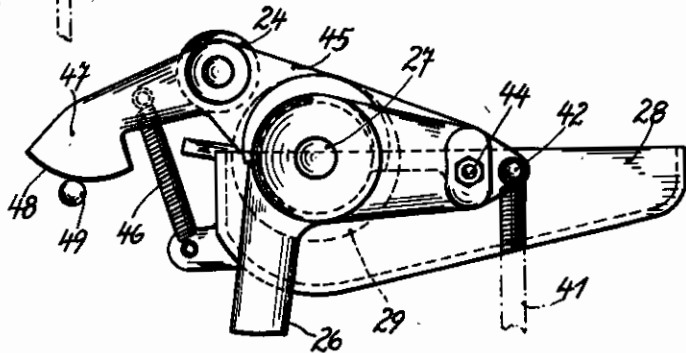


Fig. 4



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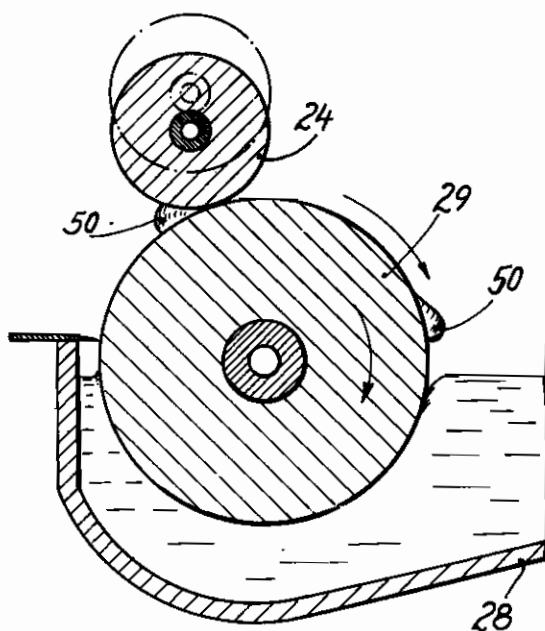
By *Young, Emery & Thompson*  
Attorneys

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Fig. 5



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# ALIEN PROPERTY CUSTODIAN

## APPARATUS FOR SUPPLYING ADHESIVE

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Alien Property Custodian

Application filed June 14, 1940

When supplying adhesive f. i. to labels, edge-  
strips, outsideleafs of cigars and the like it is im-  
portant that the adhesive supplying roller which  
finally supplies the adhesive to the work piece, is  
always covered with an equal adhesive layer. A  
hindrance for forming such equal layer is the  
fact that a certain quantity of adhesive sticks to-  
gether and damps up in the corner existing be-  
tween the adhesive feeding roller partly dipping  
into the adhesive storage of an adhesive receptacle  
and the supplying roller on which the equal layer  
is to be formed when these two rollers engage  
each other. The reason for the mentioned fact  
is that the adhesive feeding roller must always  
carry abundant adhesive and that it is impossible  
to maintain a perfect equal adhesive layer on said  
roller. The said quantity of adhesive accumulat-  
ing and sticking together moves irregularly and  
is inequally divided and therefore prevents the  
forming of a really equal adhesive layer on the  
supplying roller especially if said layer must be  
as thin as possible.

For the purpose to remove such disadvantage  
according to the invention means are provided for  
disengaging the supplying roller and if desired  
also the transferring rollers inserted between the  
supplying and the feeding roller from the ad-  
hesive feeding roller and to reengage same im-  
mediately by means of a gearing controlled by the  
mean drive.

In this way by the short disengaging of the  
supplying roller from the feeding roller it is ef-  
fected that the quantity of adhesive existing in  
the corner is taken away by the feeding roller and  
carried beyond the engaging point of the two roll-  
ers, whereupon at once a new coating of the two  
rollers begins before the adhesive of the feeding  
roller has time enough to set.

It must be said that it is not undesirable gen-  
erally that a small quantity of adhesive accumu-  
lates in the said corner as that adhesive favours  
the forming of an equal adhesive layer on the  
supplying roller but the excessive accumulating  
of adhesive in said corner is very disadvantageous  
and will be prevented according to the invention.

In much cases it may be necessary that the dis-  
engaging takes place once or also several times  
during each revolution of the rollers, while in  
other cases the disengaging is only necessary after  
a number of revolutions of the rollers. Prefer-  
ably the controlling means for controlling the  
disengagement may be adjustable correspond-  
ingly.

It is to be understood that it is generally known  
in combination with inking rollers to provide

means enabling the disengaging of the ink trans-  
ferring rollers from each other or from the print-  
ing block also during the working of the machine.  
However in these cases the disengaging of the  
transferring rollers has the purpose to facilitate  
the cleansing of the rollers or to avoid the ink to  
be incrustrated during a transitory standstill and  
not to avoid or to equalize a sticking together of  
the ink in the corner between the rollers.

The drawings show by way of example an em-  
bodiment of the invention in combination with an  
adhesive supplying device of a cigar making ma-  
chine known per se.

Fig. 1 is a side view of the adhesive supplying  
device,

Fig. 2 is a front view thereof,

Fig. 3 is a portion of Fig. 1, showing the parts  
in another working position,

Fig. 4 is a portion of Fig. 2 in an enlarged scale  
and

Fig. 5 shows the adhesive feeding roller and the  
supplying roller and the removing of the accumu-  
lated adhesive existing between the two rollers.

On the arm 39 forming a part of the machine  
or apparatus frame the adhesive receptacle 28 is  
mounted. Into the adhesive contained therein  
the adhesive feeding roller 29 dips, said roller be-  
ing rotatably mounted on the shaft 27 journalled  
on opposite sides of the adhesive receptacle. The  
shaft 27 also carries a bell-crank lever 26 which  
may oscillate about that shaft. On the one end  
of said bell-crank lever an antifriction-roller 30  
is provided engaging a curved disc 31 fixed on a  
shaft 20 journalled in the machine frame. On  
the opposite end of said bell-crank lever the one  
end of a spring 41 is fastened, the other end of  
which is fixed to the frame 39. The spring holds  
the roller 30 in engagement with the curved disc  
31 and if the roller engages the part 43 of the cir-  
cumference of said disc, the bell-crank lever ro-  
tates in the clockwise direction.

Near the one end of the bell-crank lever 26 an-  
other lever 45 is pivoted to it by the pivot 44.  
This lever is the bearing for the adhesive supply-  
ing roller 24 engaging the adhesive feeding roller  
29 and supplying the adhesive to the outside-leaf  
of a cigar, said leaf being supported by the leaf  
carrier 21. Near the front end 47 of said lever 45  
the one end of a spring 46 is fastened, the other  
end of which is connected with the machine  
frame. This spring pulls the lever 45 against an  
abutment provided on the lever 26 but not shown  
in the drawings, so that the lever 45 participates  
in the oscillating movements of the bell-crank  
lever 26. If therefore the lever 26 rotates about

the axis 27 in the clockwise direction, the lever 45 also rotates in the same sense. Hereby the roller 24 is lifted and engages the outside-leaf on the leafcarrier 21 for the purpose to apply the adhesive.

The end 47 of the lever 45 is provided with a curved path 48 adapted to engage an abutment 49 fastened on the side face of a spur wheel 32 on the shaft 20. If the abutment strikes against the curved path 48, the lever 45 is swung about the pivot 44 against the action of the spring 46. Hereby the roller 24 is disengaged from the adhesive feeding roller 29 and the accumulated adhesive 50 (Fig. 5) may pass between the two rollers and return into the adhesive receptacle. After the abutment 49 has passed the curved path 48 the spring 46 returns the lever 45 again to its former position and reengages the rollers 24 and 29.

The spur wheel 32 which is driven by the main 20

drive of the machine meshes with a spur wheel 33 mounted on a shaft 34 fastened on the block 35 forming a part of the machine frame. The spur wheel 33 is firmly connected with another spur wheel 36 meshing with a spur wheel 37 on the shaft 27 which also bears the roller 29, so that the said roller is driven by means of the described gearing. To avoid a slipping of the roller 24 a spur wheel 40 is fastened on the end of the shaft 25 bearing the roller 24, said wheel 40 meshing with the spur wheel 37.

Although we have described and illustrated the invention in combination with a cigar making machine it is to be understood that it also may be used in combination with other machines and that many alterations may be made without departing from the spirit of the invention.

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