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PAPER REWIND FOR ADDING MACHINES

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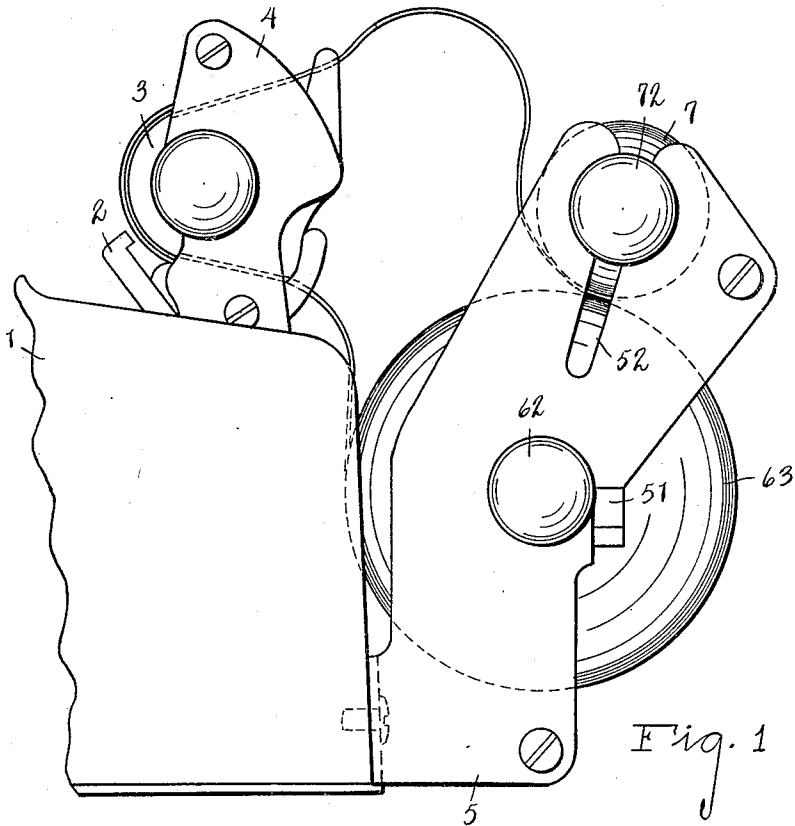


Fig. 1

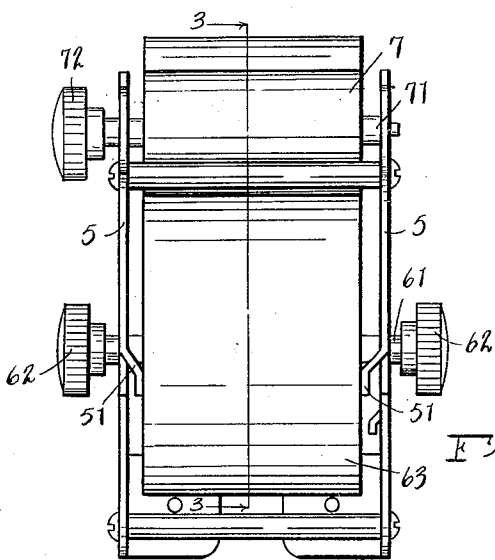


Fig. 2

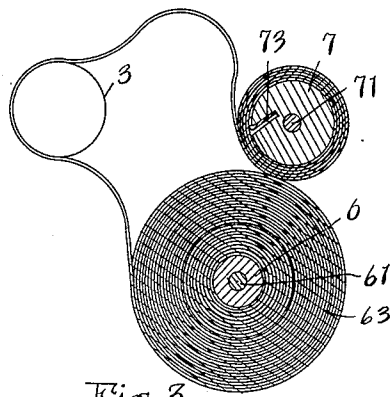


Fig. 3

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PAPER REWIND FOR ADDING MACHINES

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This invention relates to improvements in the paper control for adding machines.

The objects of the invention are:

First, to provide a simple and efficient means of winding up the printed roll automatically after printing.

Second, to provide such structure which is available for use as an attachment to any printing adding machine.

Objects which pertain to details and economies of my invention will definitely appear from the description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A device embodying my invention is clearly illustrated in the accompanying drawings, in which:

Fig. 1 is a detail side elevation of the rear part of an adding machine with my improved paper control means in place.

Fig. 2 is a rear elevation.

Fig. 3 is a detail vertical sectional view on line 3—3 of Fig. 2, through the paper rolls and platen.

The parts will be identified by their numerals of reference which are the same in all views. 1 is the rear portion of the case of an adding machine, 2 is the type, 3 is the platen roll supported on the usual brackets 4, 5 is the bracket which carries the paper supply roll 6, on spindle 61 manipulated by twirlers 62. Guide fingers 51 are struck in from the sides of the brackets 5 to contact with the roll of paper 63 and keep it in central position. 7 is the removable re-wind roll for automatically winding the paper after it is printed. This roll is carried on spindle 71 and is manipulated manually by twirlers 72. The roll 7 is manually removable by lifting from the open ended slots. The re-wind roll 7 is slotted longitudinally at 73 for the end of the paper strip, the paper 63 wraps around the platen 3 and the end is inserted into the slot 73 for attachment to that roll. The bracket 5 is slotted with open ended slots at 52 to receive the ends of the spindles 71 which allow the roll 7 to drop down and rest by gravity on the roll of paper 63.

It will thus be seen that if the adding machine is operated and feeds the paper to the machine, it will pull the paper from the roll 6 and as the roll 7 rests upon the roll 6 it will be actuated by the friction between the rolls and the paper will be taken up at precisely the same rate that it is fed out. This will be done automatically because the rolls are in contact and the driven roll will have the same peripheral speed as the driver.

The paper can be readily pulled out into a loop to accommodate the to and fro action of the platen, and, of course, any undue slack can be taken up by manipulating the twirler 72. No compensating devices or tension means are required. The structure is simple and needs no such additions to make it effective.

Of course the device does not need to accommodate this feature on machines where the type acts on a fixed platen roll having a step by step feed to which the re-wind device is equally well adapted.

A loop of paper can be pulled out for inspection and it can be readily wound up again by manipulation of the twirler.

The re-wind roll, acting by gravity and being readily removable, permits a loop of the paper to be feed out for embracing the platen or for inspection purposes and the same can be connected for re-winding with great facility. Where it is necessary to loop the paper around tensioning devices this cannot be accomplished.

While I have shown my construction as supported on an attached bracket, it will be clear that the same can be produced in various forms and might be more completely incorporated into the adding machine itself.

I desire to claim the invention in the specific form shown and also broadly as pointed out in the claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In an adding machine the combination of a paper supply roll supported in suitable brackets containing upwardly projecting open ended slots at each side above the roll spindle, an oscillating platen for printing, a

removable re-wind roll with projecting spindle and twirler disposed in slots of said brackets and adapted to rest by its weight on the said supply roll and be frictionally driven
5 thereby, the paper being disposed in a loop around said platen between the supply roll and said re-wind roll, the said re-wind roll
spindles being free to rise and fall in said slots and being directly removable there-
10 from.

2. In an adding machine, the combination of a paper supply roll supported in suitable brackets containing upwardly projecting
open ended slots at each side above the roll
15 spindle, an oscillating platen for printing, a removable roll with projecting spindle disposed in slots of said brackets and adapted to rest by its weight on the said supply roll
and be frictionally driven thereby, the paper
20 being disposed in a loop around said platen between the supply roll and said re-wind roll, the said re-wind roll spindles being free to rise and fall in said slots and being di-
rectly removable therefrom.

25 3. In an adding machine, the combination of a paper supply roll supported in suitable brackets containing upwardly projecting open ended slots at each side above the roll
spindle, a platen for printing, a removable
30 roll with projecting spindle, disposed in slots of said brackets and adapted to rest by its weight on the said supply roll and be frictionally driven thereby, the paper being dis-
posed in a loop around said platen between
35 the supply roll and said re-wind roll, the said re-wind roll spindles being free to rise and fall in said slots and being directly re-
movable therefrom.

4. In an adding machine provided with a
40 printing platen, the combination of a paper supply roll, a removable re-wind roll adapted to contact with the said paper roll, supporting means for maintaining the said re-
wind roll above said supply in contact by its
45 weight with the paper roll so that it will be actuated thereby, the paper being disposed in a loop around said platen between the sup-
ply roll and said removable re-wind roll, said
re-wind roll being free to rise and fall.

50 In witness whereof I have hereunto set my hand.

GLENN J. BARRETT.

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