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W. E. DUNNING ET AL

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ADDING MACHINE

Filed Feb. 11, 1930

2 Sheets-Sheet 1

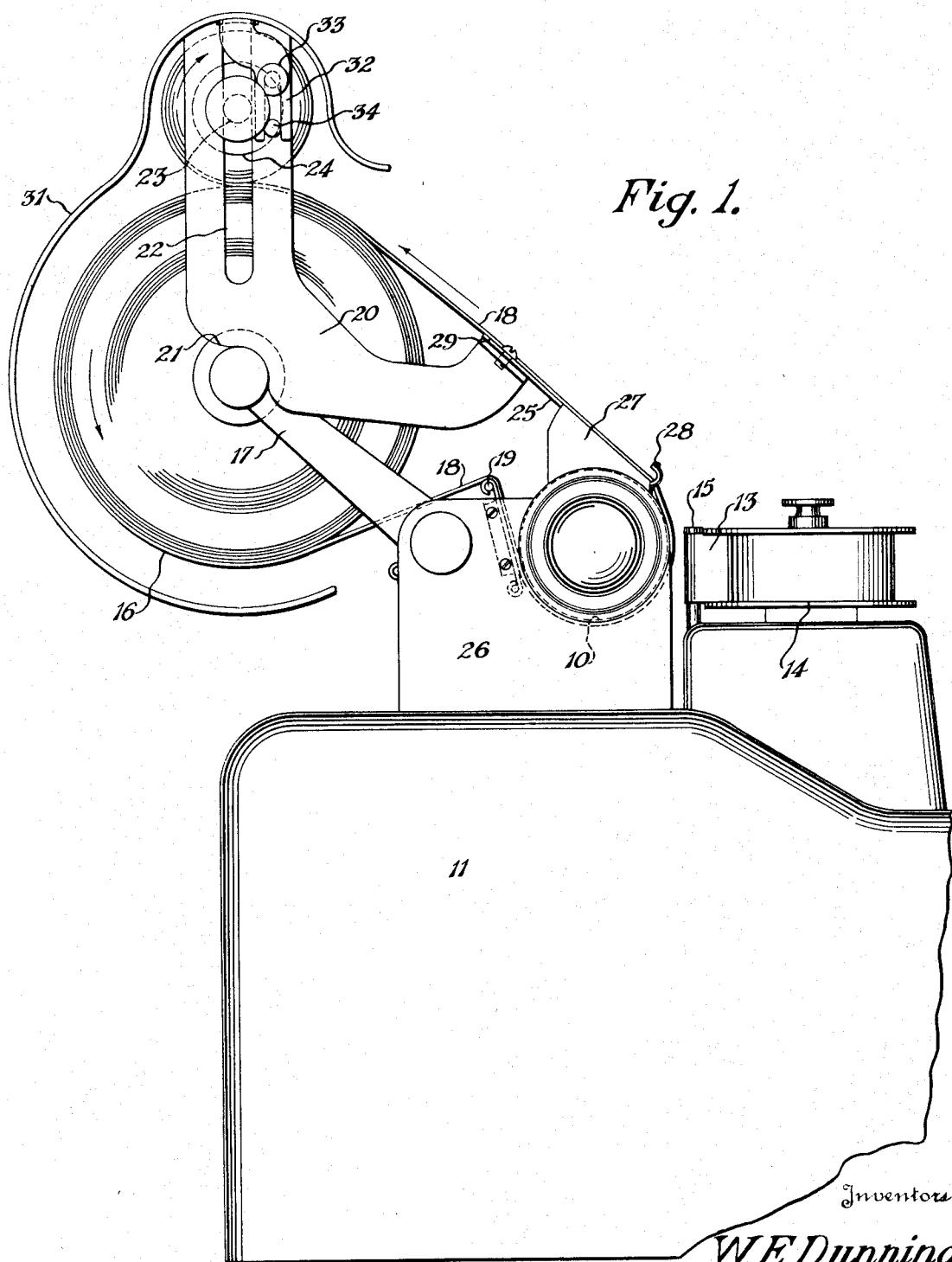


Fig. 1.

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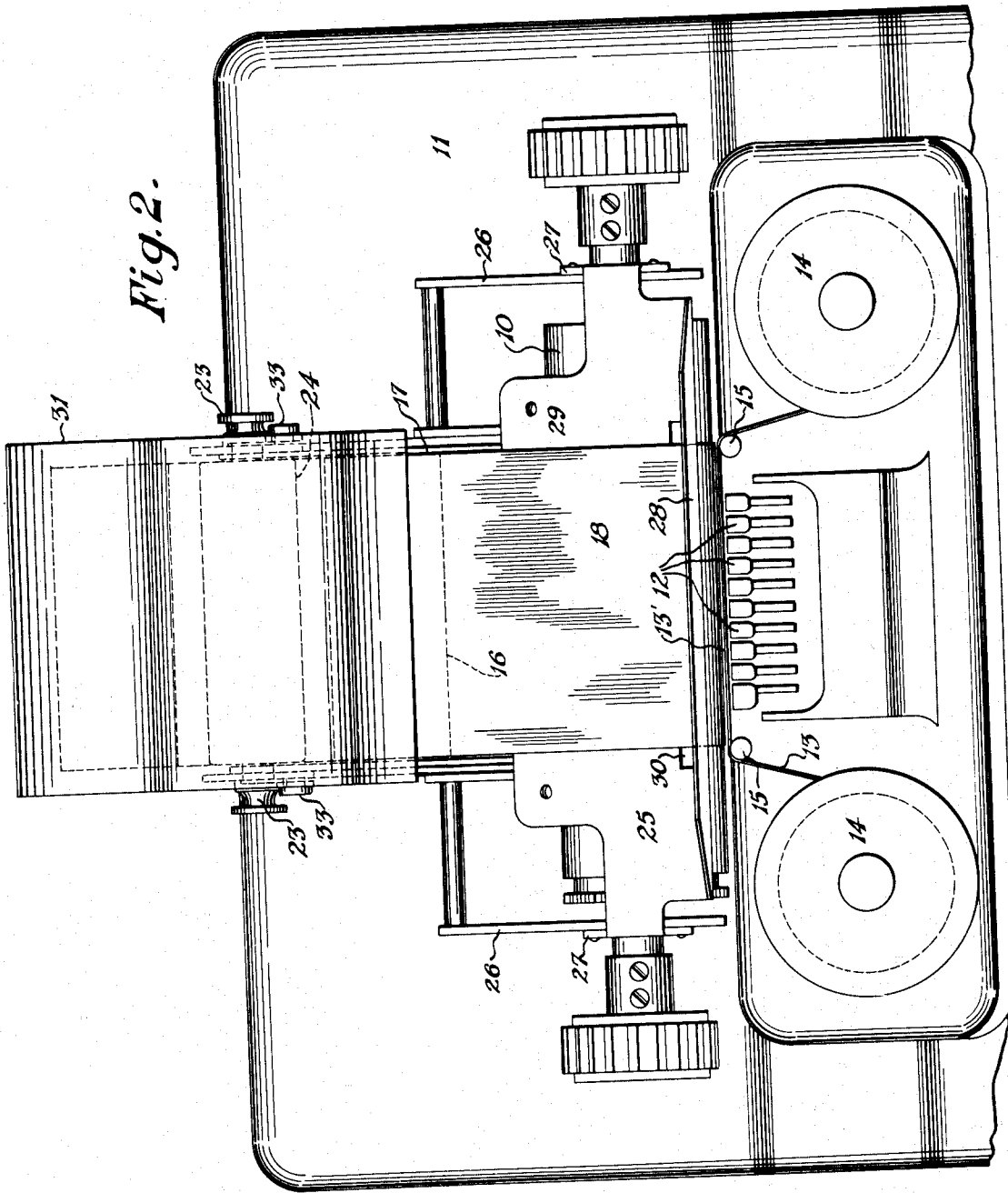
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Fig. 2.



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ADDING MACHINE

Application filed February 11, 1930. Serial No. 427,530.

The invention relates to the printing or recording mechanism in adding machines and the like, and more particularly to means for automatically rewinding the record strip.

It is usual practice in adding machines to automatically unwind the record strip, by the operation of the machine, from a roll mounted at the rear of the machine, and after passing around the platen roll, where the record of transactions is imprinted thereon, the strip is projected rearward and accumulates in a bunch at the rear of the machine, or may be torn off from time to time or as each transaction or series of transactions is made.

Means have been provided, such as described in Dunning and Bachofen Patent No. 1,629,615, issued May 24, 1927, for automatically rewinding the record strip upon a reel or spool after the strip has passed around the platen roll and had the record of transactions printed thereon.

The present improvement contemplates the provision of a reel or spool upon which the record strip is automatically rewound after passing around the platen roll, this rewinding spool resting by gravity upon the record strip roll and being rotated to rewind the record strip by the rotation of the record strip roll to unwind the record strip therefrom.

The invention is illustrated in the accompanying drawings, forming part hereof, in which

Figure 1 is a side elevation of a portion of an adding machine showing the improved rewinding spool or reel; and

Fig. 2, a top plan view of the same.

Similar numerals refer to similar parts throughout the drawings.

The platen roll 10 is rotatably mounted at the rear portion of the case 11 of an adding machine, in front of which roll the type bars 12 of the machine are operatively mounted. The ink ribbon 13 of the machine is mounted on reels 14 for operating around posts 15 and passing between the key bars and the platen roll, as indicated at 13' in Fig. 2.

The record strip roll 16 is rotatably mount-

ed upon a bracket 17 in rear of the platen roll, whence the record strip 18 passes forward over a guide 19, thence under the platen roll 10, and thence upward around the forward face of the same between the ink ribbon and the platen roll.

The usual mechanism is provided to rotate the platen roll a limited distance each time a record has been imprinted on the record strip, by swinging the usual operating handle (not shown), of the adding machine, all in well known manner.

A bracket arm 20 is adapted to be connected to each end of the bracket 25 to be later described, and may be cut away, as at 21, to rest upon the shaft of the record roll 16, and has the upright slot 22 formed therein to slidably and rotatably receive the adjacent journal portion 23 of the rewind spool 24, which is preferably formed of metal, and of sufficient weight to function as will be later described.

A bracket 25 is secured to the frame 26, which carries the platen roll, and as shown, the bracket may be made of sheet metal with flange ears 27 on each end for securing it to the frame and may have its lower edge strengthened by an upturned slotted flange 28, forming a blade by which the record strip may be conveniently severed.

The body of the bracket is preferably in the form of a platen plate 29 extending upward and rearward from the face of the platen roll, and a transverse slot 30 is provided across the lower portion of the platen plate, through which slot the record strip is passed and operated on its way upward and rearward from the platen roll in the direction of the arrow shown in Fig. 1, the record strip being then rewound upon the rewind spool 24.

A sheet metal hood 31 may be provided for covering the record strip roll and rewind spool, and is preferably detachably supported upon the bracket arms 20, so that the hood may be quickly and easily removed or replaced thereon to permit access to the record strip roll and rewind spool.

For the purpose of thus supporting the hood upon the bracket arms, depending slot-

ted fingers 32 may be fixed to opposite ends of the upper portion of the hood and adapted to engage the studs 33 and 34 upon the bracket arms 20.

- 5 In the use of the machine, the portion of the record strip used each day, or other desired period, is rewound upon the rewind spool or reel as the machine is operated; and at the end of the day or other period, the
10 portion of the strip which has been wound upon the rewind spool may be severed from the remainder of the strip, and may then be unwound from the rewind spool for filing or for such other disposition as may be de-
15 sired.

It will be seen that with each operation of the platen roll the record strip will be unwound from the record strip roll 16 and wound upon the rewind spool 24, the weight
20 of the heavy metal rewind spool holding the rewind roll thereon in frictional contact with the record strip roll and causing the rewind spool to rotate in the direction of the arrow shown thereon in Fig. 1.

- 25 From the above it will be seen that a very simple and inexpensive rewind mechanism is provided in which no gears, belts or the like are necessary to positively drive the rewind spool, gravity alone holding the rewind spool
30 in frictional contact with the record strip roll and causing it to wind the strip thereon as it is unwound from the record strip roll.

We claim:

1. In an adding machine or the like, a record strip roll shaft mounted on the adding
35 machine, a record strip roll journaled on the shaft, an adjacent platen roll around which the strip from the record strip roll is adapted to be passed, a bracket supported on
40 the shaft and provided with a slot, and a rewind strip roll slidably and rotatably mounted in the slot and adapted to frictionally engage the record strip roll, the rewind strip roll being adapted to receive the strip
45 after it has passed around the platen roll.

2. In an adding machine or the like, a record strip roll shaft mounted on the adding machine, a record strip roll journaled on the
50 shaft, an adjacent platen roll around which the strip from the record strip roll is adapted to be passed, a bracket supported on the shaft and provided with a slot, and a rewind strip roll slidably and rotatably mounted in the slot and resting by gravity
55 on the record strip roll, the rewind strip roll being adapted to receive the strip after it has passed around the platen roll.

3. In an adding machine or the like, a record strip roll shaft mounted on the adding
60 machine, a record strip roll journaled on the shaft, an adjacent platen roll around which the strip from the record strip roll is adapted to be passed, a bracket supported on the shaft and provided with a slot, a rewind strip
65 roll slidably and rotatably mounted in the

slot and resting by gravity on the record strip roll, the rewind strip roll being adapted to receive the strip after it has passed around the platen roll and a hood detachably
70 mounted on the bracket and located around the rear side of the record strip roll and over the rewind roll.

In testimony that we claim the above, we have hereunto subscribed our names.

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