

March 16, 1937.

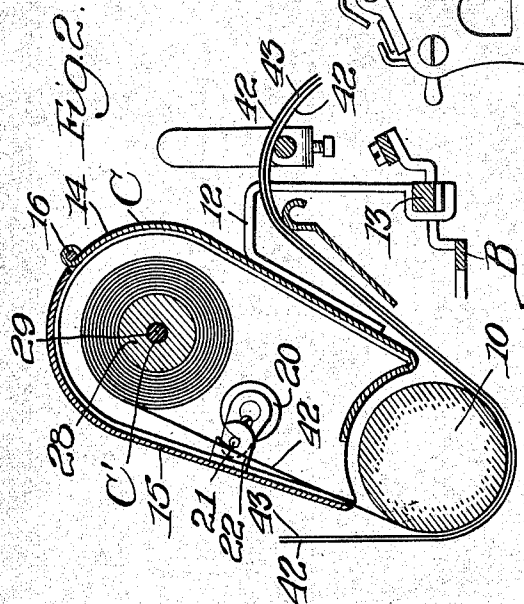
C. L. WINTER

2,074,097

TYPEWRITING MACHINE

Filed March 11, 1935

2 Sheets-Sheet 1



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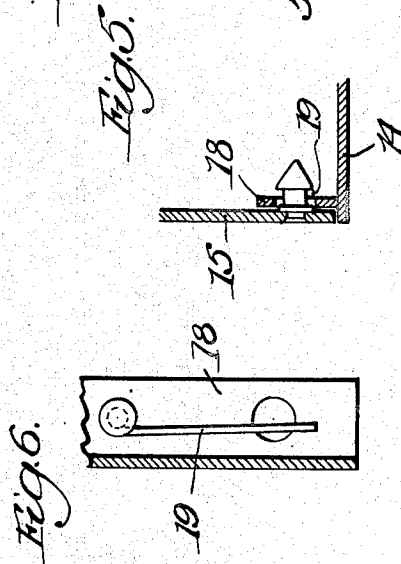
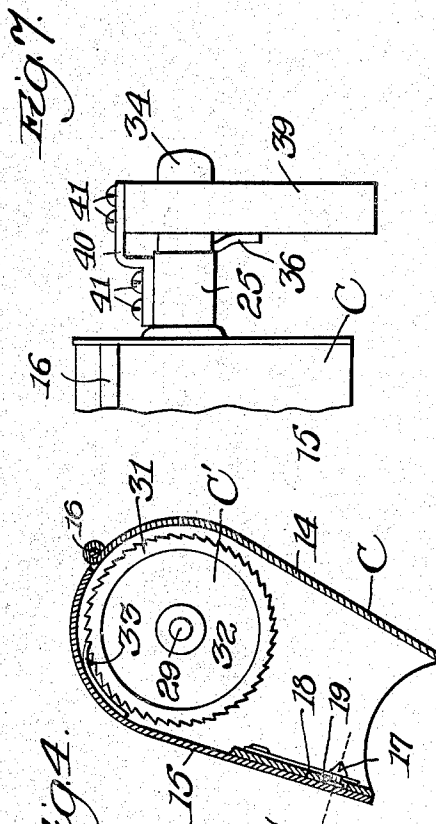
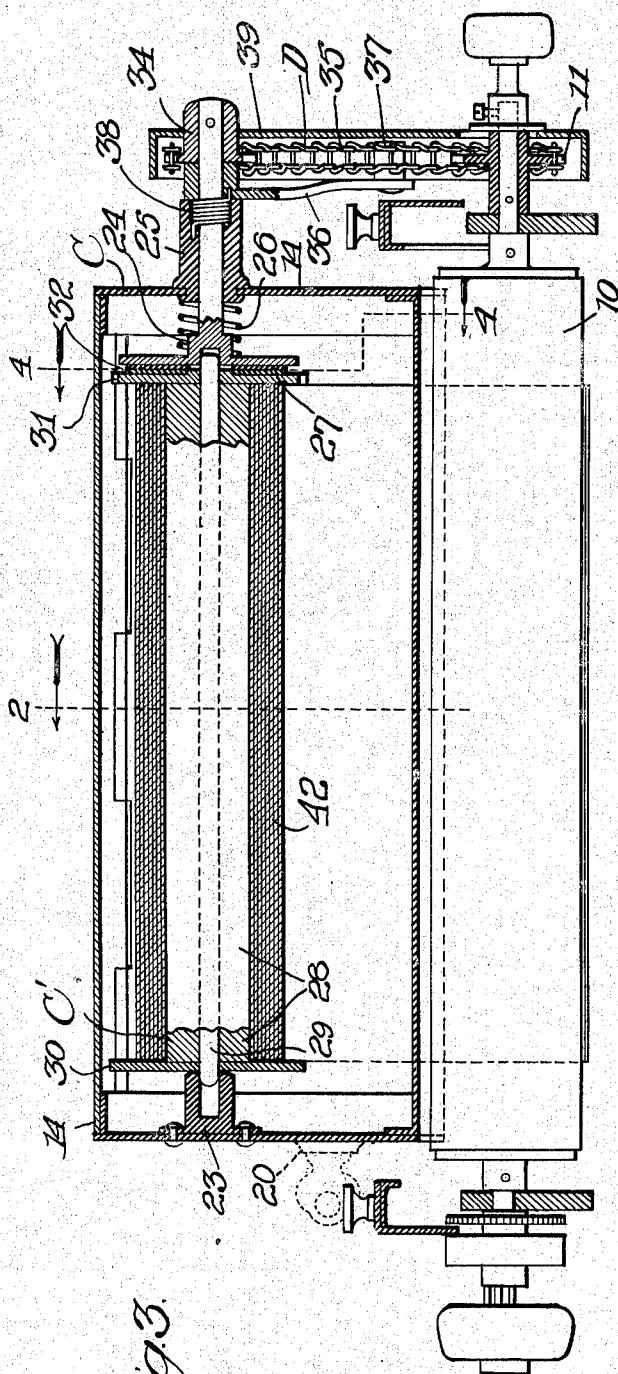
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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TYPEWRITING MACHINE

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Application March 11, 1935, Serial No. 10,543

6 Claims. (Cl. 197—133)

This invention relates to typewriting machines and more particularly to a method and means for preventing erasures on record strips while they are in a typewriter.

The primary object of the invention is to provide a record compartment which may be mounted on the platen carriage of a standard typewriter which will receive one of the continuous record strips advanced by the platen and associated presser means and will prevent the strip from being retracted from the record compartment into re-typing position.

The invention is illustrated in a preferred embodiment in the accompanying drawings, in which—

Fig. 1 is a side elevational view of a typewriter embodying the invention, the stationery being shown brokenly and the chain guard removed; Fig. 2 is a broken sectional view through the record compartment and platen roll, with the stationery shown diagrammatically, taken as indicated at line 2 of Fig. 3; Fig. 3 is a broken sectional view taken as indicated at line 3 of Fig. 1; Fig. 4 is a sectional view taken as indicated at line 4 of Fig. 3; Fig. 5 is an enlarged broken sectional view of the cover fastening device taken as indicated at line 5 of Fig. 4; Fig. 6 is a broken sectional view of the spring associated with the fastening device shown in Figs. 4 and 5; and Fig. 7, a broken elevational view showing how the chain guard is supported in position.

In the preferred embodiment, illustrated in the accompanying drawings, A designates a typewriter frame; B, a platen roll carriage shiftably mounted thereon; C, a record compartment mounted on said carriage and equipped with a re-wind spool C'; and D, a transmission device for driving the roll C' from the platen roll.

The typewriter frame A may be of any standard construction equipped with a transversely shiftable carriage B in which is mounted the usual platen roll 10 equipped at one end with a sprocket wheel 11.

The record compartment C may comprise a hollow metal box, preferably of sheet metal, supported on rearwardly extending brackets 12 which may be secured to the rack bar 13 of the carriage. Preferably the record compartment has a fixed section 14 and a front closure member 15 pivotally connected thereto at 16. The cover may be equipped with a suitable snap fastener stud 17 adapted to project through a flange 18 of the fixed portion of the compartment 14 and a spring 19 may be provided to yieldingly hold the cover in closed position. As shown in

Fig. 2 the inside of the compartment is further provided with a lock cylinder 20 having an arm 21 adapted to engage a catch 22 on the closure member. As will be readily understood, the lock may be operated by means of a key (shown dotted in Fig. 3). As shown in Fig. 3, the inside of the compartment is provided with a fixed journal 23 and a transversely shiftable support 24 which is slidably mounted in the journal 25 and is urged inwardly by means of a compression spring 26. Preferably the inside face of the member 24 is equipped with a friction surface 27 which serves as a clutch for the re-wind spool C'.

The spool C', comprises a core 28 secured on the outwardly extending shaft 29 which is journaled at one end in the bearing 23 and is journaled at the opposite end in the member 24. The spool is equipped at one end with an end flange 30 and at the other end with a ratchet wheel 31 provided with a friction face 32 to engage the face 27. As shown in Fig. 4 the cover 15 is provided with a leaf-spring pawl 33 which is disposed so as to engage the ratchet wheel 31 and permit rotation of the wheel in but one direction when the cover is closed.

As shown in Fig. 3 the transversely shiftable member 24 is equipped on its outer end with a small sprocket wheel 34 which forms part of the transmission device D. The sprocket wheels 11 and 34 are positively connected by means of a suitable sprocket chain 35 which is sufficiently loose to permit the sprocket wheel 34 to move laterally when the spool C' is being removed or replaced in the record compartment. In order to keep the chain 35 reasonably taut an idler member 36, equipped at its lower end with a roller 37, is journaled on the member 24 and is yieldingly urged into contact with said chain by means of a torsion spring 38.

As shown in Figs. 3 and 7, the sprocket wheels and chain are enclosed by a guard 39 which is fixed in the journal 25 by means of a bracket 40 and screws 41.

In order to load the device, stationery strips 42 which may be interleaved with carbon strips 43 are led around the platen from the rear and advanced into typing position. The cover 15 of the record compartment may be raised and the record strip attached to the re-wind core 28. The cover may then be locked shut and the strip typed in the usual manner. The re-wind spool C' having a smaller sprocket 34 than the sprocket 11 on the platen roll will rotate somewhat faster than the platen roll. Thus the record strip 42

which advances into the record compartment will be kept taut but there will be no danger of breakage as slippage may occur between the member 24 and the wheel 31. The operator will be unable 5 to retract the record strip from the record compartment by reversing the platen roll due to the action of the pawl 33.

The invention has particular utility in banks and the like, where no erasures can be permitted 10 and it is essential that any attempt at alteration will be plainly apparent on the record strip.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be understood 15 therefrom, but the appended claims should be construed as broadly as permissible, in view of the prior art.

I claim:

1. A typewriting machine comprising: a frame; 20 a carriage shiftably mounted on said frame and equipped with a record compartment; feed-means in said carriage comprising a rotatable platen roll and presser-means adapted to advance into typing position record strips interleaved with 25 a transfer strip; a wind-up spool journaled in said compartment to receive a record strip advanced beyond the platen; means for driving said take-up roll in timed relation to the rotation of the platen roll; and means on said wind-up spool 30 for restraining the record strip from retraction into typing position.

2. A device as specified in claim 1, in which the driving means includes a friction clutch within 35 said compartment, said clutch being driven by the platen roll.

3. A device as specified in claim 1, in which the record compartment is provided with a closure

member adapted to be locked in closed position, and the restraining means includes a pawl 5 mounted on said closure member so as to engage the wind-up spool when the closure member is locked in closed position.

4. In a machine of the character set forth: a 10 frame provided with a rotatable platen roll having at one end a sprocket wheel; a take-up spool rotatably mounted over the platen between a fixed bearing and a transversely shiftable journal provided in said frame, said shiftable journal being 15 provided with a fixed sprocket wheel normally aligned with the first mentioned sprocket wheel, and said shiftable journal having friction-means for engaging said spool; a sprocket chain forming a driving connection between said sprocket 20 wheels; and a tension-member yieldingly urged against said chain to keep the same taut.

5. The method of preventing erasures on a typewriting machine which comprises: feeding 25 continuous strips of stationery through the typing position of the machine uniformly; and winding one of said strips on a spool and positively restraining backward rotation of said spool.

6. The method of preventing changing of records in a typewriting machine which comprises: 30 feeding uniformly a plurality of strips of continuous stationery through the typing position of the machine by means of the feed mechanism; winding the advance end of one strip on a take-up spool in advance of the typing position; driving 35 a take-up spool in timed relation to the operation of the feed mechanism so as to keep the strip taut; and positively restraining the spool from rotation in but one direction.

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