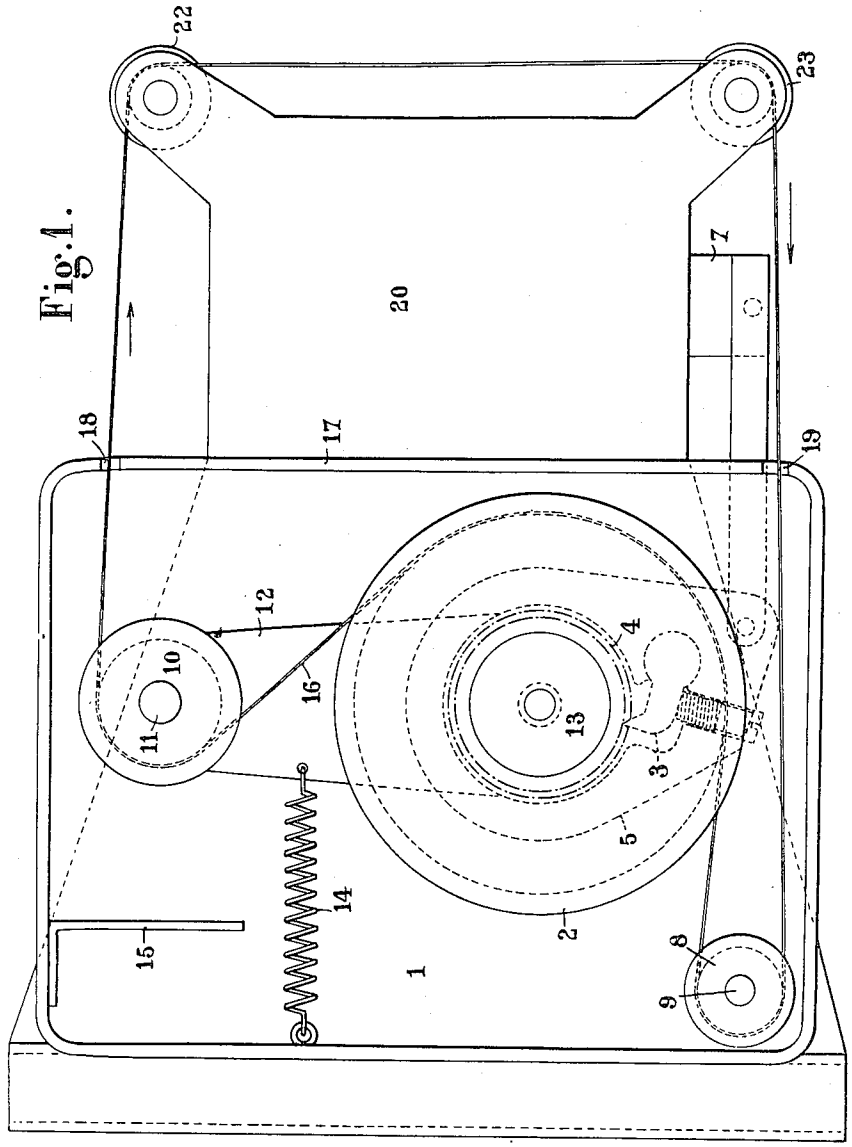
July 24, 1956 J. SEGUI 2,755,905

ENDLESS RIBBON FEEDING DEVICE FOR SHORTHAND TYPEWRITERS

Filed June 16, 1953 3 Sheets-Sheet 1

Fig. 1.



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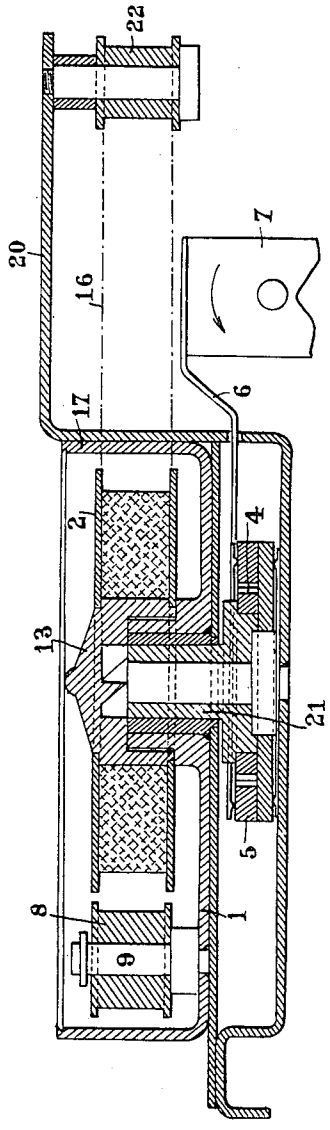
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ENDLESS RIBBON FEEDING DEVICE FOR SHORTHAND TYPEWRITERS

Filed June 16, 1953 3 Sheets-Sheet 2

Fig. 2.



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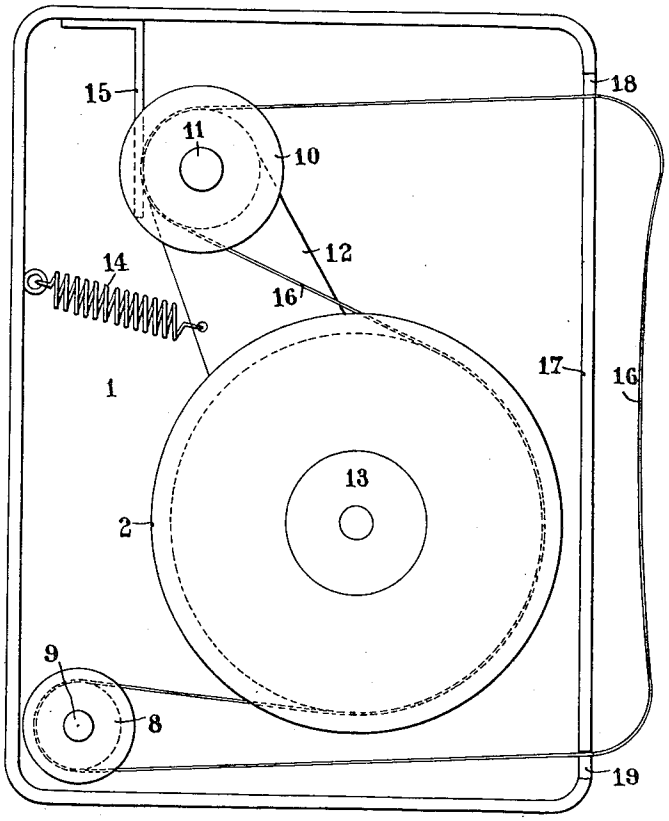
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Filed June 16, 1953 3 Sheets-Sheet 3

Fig. 3.



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ENDLESS RIBBON FEEDING DEVICE FOR SHORTHAND TYPEWRITERS

Jean Segui, Vincennes, France, assignor to Societe Anonyme dite: Stenotype Grandjean, Paris, France

Application June 16, 1953, Serial No. 362,093

Claims priority, application France August 12, 1952

2 Claims. (Cl. 197—168)

This invention relates to an endless ribbon feeding device for shorthand typewriters, consisting of a flat case, requiring little space, for attachment to the machine and inside which are arranged an inking pad, means for rotating the said inking pad step by step by the ribbon feeding mechanism of the machine, two return pulleys over which the ribbon is adapted to pass and which force this ribbon to surround partly the inking pad, both pulleys being mounted loose on their pivots one of which is fixed to the bottom of the case and the other to a swinging arm, preferably swinging about the pivot of the inking pad, and a spring keeping the tension of the ribbon constant during operation and constantly drawn towards a fixed stop forming a lock for the ribbon when the feeding device is removed from the machine. The wall of the case furthest from the two return pulleys comprises two slots for the passage of the endless ribbon.

Reference is to be had to the accompanying drawings, it being understood that the drawings are merely illustrative of a practical example of the invention.

Figure 1 is a plan view, the top of the case being removed.

Figure 2 is a section of the case attached to the shorthand typewriter.

Figure 3 is a plan view of the case alone.

The rectangular case 1, fitted for example with a sliding top, comprising an inking pad 2 which can be rotated step by step by the ratchet 3, engaging in a toothed wheel 4 moved by the swinging arm 5 on which the said ratchet 3 is mounted, under the action of the rod 6 actuated by the universal bar 7; it comprises in addition a return pulley 8 mounted loose on an axis 9 fixed to the bottom of the case, and a return pulley 10 mounted loose on an axis 11 fixed to the arm 12 which swings about the axis 13 of the inking pad 2.

The spring 14 constantly draws the swinging arm 12 towards the fixed stop 15 which acts as a lock for the ribbon when the feeding device is out of use and away from the machine.

The endless ribbon 16 passes partially round the return pulleys 8 and 10 and the inking pad 2, as shown on the drawing.

Normally the spring 14 brings the ribbon to bear against the fixed stop 15 when the feeding device is not attached to the machine, so that it cannot shift and its length is such that it is stretched round the two said return pulleys, the inking pad 2 and the guide rollers 22 and 23 when it is in working position on the machine, passing through the slots 18 and 19 provided in the case.

To position the case on the frame 20 of the shorthand typewriter, part of which is shown on the drawing, the hollow axis 13 of the inking pad 2 is engaged on the hub

21 of the toothed wheel 4, these two elements being so adjusted as to become integral when revolving; that part of the ribbon issuing from the case is pulled and passed round the two return pulleys 22 and 23 mounted on the frame 20 of the machine; the spring 14 is thus stretched and ensures the tension of the endless ribbon 16.

The feeding device can be manipulated without soiling the fingers with the ribbon when feeding.

It will be obvious that the invention is not limited by the details of the practical example shown above. Various changes may be made in the details of construction without departing from the spirit and scope of the invention as described in the claims.

What I claim is:

1. An endless ribbon removable feeding device for typewriters or shorthand typewriters having a hub driven for step-by-step rotation to feed said ribbon, said feeding device comprising a flat case of reduced dimensions adapted to be releasably mounted on the machine, an inking pad within said case, a hollow shaft rotatably fast with said inking pad and adapted to be releasably fitted on said hub for step-by-step rotation therewith, a pair of guide pulleys over which said ribbon is adapted to pass so as to force said ribbon partly around said inking pad, two pivots on which the said pulleys are mounted loose, one of the said pivots being fixed to the bottom of the case, a swinging arm on which the other pivot is fixed, a spring connected to said swinging arm and adapted to keep the tension of the ribbon constant during operation, and a fixed stop towards which the spring constantly tends to impel the said swinging arm, the said fixed stop forming a lock for the ribbon when the feeding device is removed from the machine, the wall of the said case furthest from the two return pulleys comprising two slots for the passage of the endless ribbon.

2. A detachably mounted endless ribbon feeding device for typewriters or shorthand typewriters having a ribbon feeding mechanism, said device comprising a flat case, requiring little space, for attachment to the machine and inside which are arranged an inking pad, means for rotating the said inking pad step by step by the ribbon feeding mechanism of the machine, said means being connectable with said ribbon feeding mechanism when the device is mounted on the machine, two return pulleys arranged in substantially the plane of the inking pad and on the same side of a diameter of the inking pad, two pivots on which the said pulleys are mounted loose, one of the said pivots being fitted to the bottom of the case, a swinging arm on which the other axis is fixed, said swinging arm pivoting about the pivot of the inking pad, a spring acting on the said swinging arm and keeping the tension of the ribbon constant during operation, and a fixed stop towards which the spring constantly tends to impel the said swinging arm, the said fixed stop forming a lock for the ribbon when the feeding device is removed from the machine, the wall of the said case furthest from the two return pulleys comprising two slots for the passage of the endless ribbon.

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