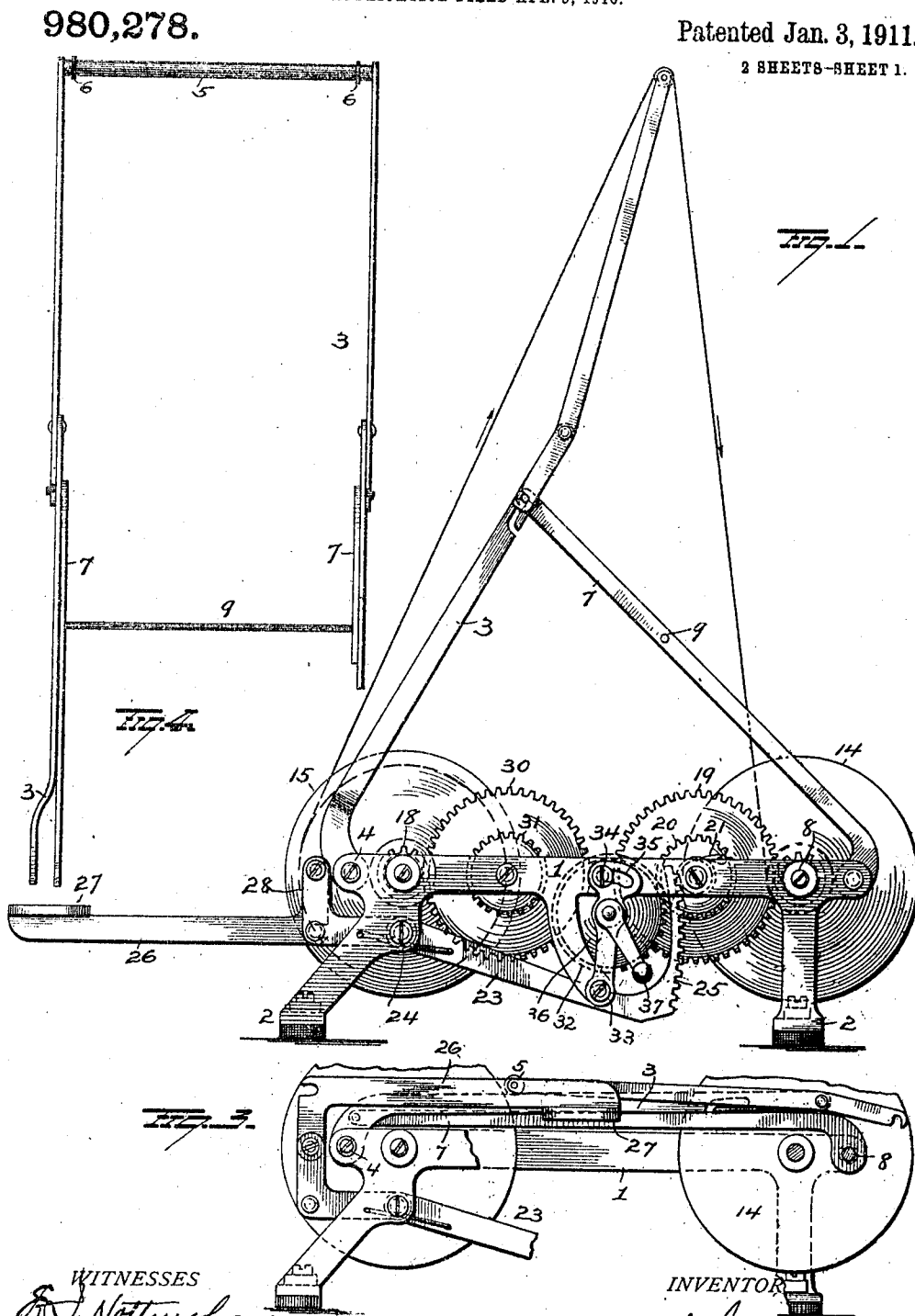


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COPY HOLDER.
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2 SHEETS-SHEET 1.

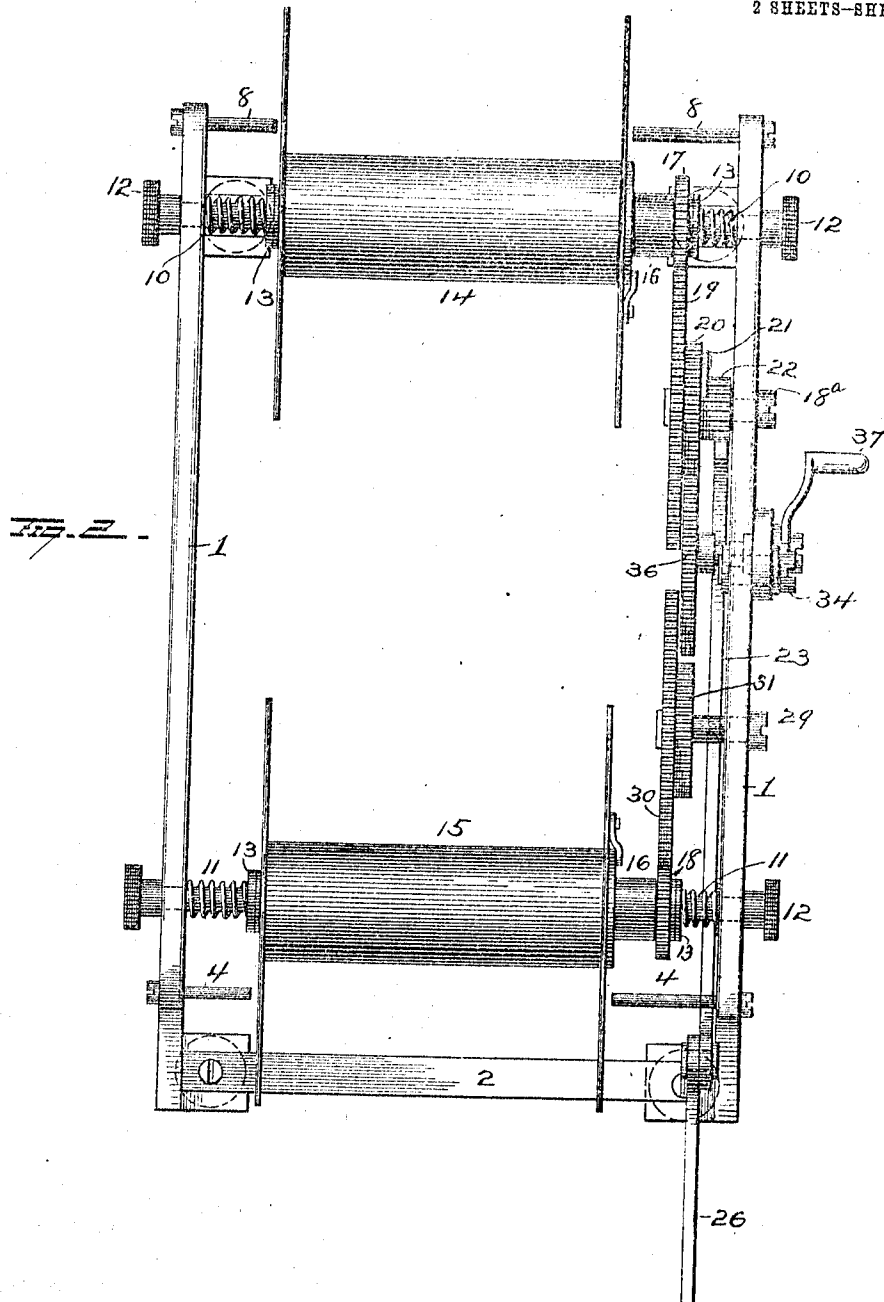


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2 SHEETS--SHEET 2.



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COPY-HOLDER.

980,278.

Specification of Letters Patent.

Patented Jan. 3, 1911.

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To all whom it may concern:

Be it known that I, WARD S. IRELAND, of Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Copy-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in copy-holders,—the object of the invention being to provide a copy holder adaptable for a continuous strip or sheet of paper such as employed with stenographic typewriting machines and which will enable a considerable portion of the strip to be exposed to view.

A further object is to so construct a copy-holder of the type above mentioned that the operator can readily move the paper step by step by the manipulation of a key and so that at each manipulation of the key, he can expose a new section of the paper throughout the full height of the holder.

A further object is to provide a copy-holder for a continuous paper sheet, with means for transferring the continuous sheet from one reel to another in such manner that the outer end of the written sheet of paper coming from one reel will be wound first upon the other (empty) reel, and thus reverse the written sheet end for end and enable the operator to transcribe the notes on said sheet in regular order as the sheet is passed over the holder and gradually re-wound on the first reel.

A further object is to so construct a copy-holder for a continuous sheet or strip of paper, that it can be folded into compact form and occupy small space when not in use.

With these objects in view the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a copy-holder embodying my improvements. Fig. 2 is a plan view on an enlarged scale with the paper supporting frame omitted. Fig. 3 is a view showing the device folded, and

Fig. 4 is a detail face view showing the paper holding frame.

1 represents a rectangular frame or base provided at its corners with depending legs 2 to form supports for said frame. At one end of the rectangular base frame 1, the lower end of a paper supporting frame 3 is pivotally connected by means of pins 4. This paper supporting frame comprises a series of sections hinged together in order to permit said frame to be folded in compact form over the base frame when the machine is not in use and the parallel members of the upper section of the said paper supporting frame are connected by means of a cross-bar 5 upon which small rollers 6 may be mounted to reduce friction of the paper passing over the frame. When the machine is in use, the paper supporting frame 3 is maintained in an upright position by means of brace arms 7 pivotally attached at their lower ends to pins 8 at one end of the base frame 1, and at their upper forward ends said brace arms are removably connected with the paper supporting frame. The brace arms 7 may be connected between their ends by a cross-rod 9 and the connection of the upper forward ends of said brace arms with the paper supporting frame is such as to lock the members of said frame together.

Pairs of spring pressed trunnions 10 and 11 are supported by the base frame 1 near respective ends thereof and each of said trunnions is provided at its outer end with a knob 12. The trunnions of the respective pairs are provided at their inner ends with suitable disks 13 to engage and removably hold in place reels 14 and 15 respectively. Each reel is provided with a hub or extension 16 projecting beyond one end thereof and is engaged by the disk 13 on the adjacent trunnion and on the hubs of the respective reels, pinions 17 and 18 are secured. When a reel is removed from the machine, its hub 16 with the pinions thereon will also be removed but as the reel is separable from the hub, the latter can be replaced between the pair of spring pressed trunnions.

A stud 18^a secured to one side of the base frame 1 has mounted thereon a gear wheel 19 meshing with the pinion 17 on the adjacent reel hub. This stud also has mounted thereon, a pinion 20 which is rotatable with

the gear wheel 19 and carries a pivoted pawl 21 which engages the teeth of a pinion 22 loosely mounted upon said stud 18. A lever 23 is pivotally supported at 24 by the forward portion of the base frame and provided at its rear end with an upwardly projecting curved rack 25 adapted to mesh with the pinion 22 on the stud 18. To the other arm of this lever a finger bar 26 having a key or button 27 at its free end, is connected by a rule joint as shown at 28. When the machine is not in use the finger bar 26 can be folded over the machine as shown in Fig. 2.

Mounted upon a stud 29 secured to the base frame, is a gear wheel 30 adapted to mesh with the pinion 18 on the adjacent reel hub and also mounted on this same stud and rotatable with the gear wheel 30 is a pinion 31. The intermediate portion of one side of the base frame 1 is provided with a depending member 32, to the lower end of which an arm 33 is pivotally attached and guided in its movements by a pin or screw 34 secured to the frame 1 and passing through an elongated slot 35 in the upper portion of said arm 33. The arm 33 may be secured in the position to which it may be moved by the head of the screw 34 if desired. The hub of a gear 36 is mounted in the oscillatory arm 33 and to said hub a crank arm 37 is secured. By shifting the arm 33, the gear wheel 36 can be caused to mesh with either the pinion 20 on the stud 18^a or the pinion 31 on the stud 29 for the purpose of transmitting motion to one or the other of the reels to operate the same manually.

When a reel of paper is removed from the rewinder of a stenographic typewriting machine, the beginning of the matter written upon the strip will be at the inside of the roll of paper on said reel. Such a reel of paper is placed on the core 16 between the spring pressed trunnions 10 and an empty reel is placed on the reel core between the spring pressed trunnions 11. The paper strip will then be connected with the empty reel and the oscillatory arm 33 shifted so as to cause the gear 36 to mesh with the pinion 31. By now operating the crank-arm 37, the gear 36 will be actuated to transmit motion, through the medium of the pinion 31, gear 30 and pinion 18 to the empty reel and cause the strip of paper to be transferred from one reel to the other and in thus transferring the paper strip, it will be reversed end for end. The arm 33 will be now shifted so as to move the gear 36 out of mesh with the gear or pinion 31. The paper supporting frame 3 may now be placed or adjusted to the position for use as shown in Fig. 1 and the paper from the filled reel passed upwardly over said supporting frame and then downwardly to the reel which first carried the strip and the pa-

per will be so wound on this reel that the blank side of the paper will be faced outwardly. When the paper strip shall have been fully retransferred to the first mentioned reel (by the manipulation of the feeding devices), the strip will be so wound on said reel that it can be again placed in a stenographic writing machine so that the blank face of the strip can be utilized in such machine.

It will be observed that a considerable amount of the paper strip will be exposed on the frame 3 and by manipulating the key-bar 26 the rack 25 will be elevated and, meshing with the pinion 22 will transmit motion through the interposed gearing to the reel at the rear of the machine and cause an amount of paper to be wound thereon approximately equal to the amount of paper exposed to view of the operator by the paper supporting frame 3. It is apparent that by moving the finger bar 26 less than its full throw a smaller amount of paper can be fed at a time over the frame 3.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is,—

1. In a device of the character described, the combination with a base frame, of two reel supporting means mounted on said base frame, a collapsible frame or stretcher superimposed over the base frame, for supporting paper passing from one reel on the base to the other, a rack bar, gearing between said rack bar and one of the reel supporting means on the base frame, and manually operated means for actuating said rack bar.

2. In a device of the character described, the combination with a base frame, means on said base frame for supporting delivery and receiving reels, and means for operating said reel-supporting means, of a collapsible frame or stretcher hinged to and foldable over the base frame, and means for supporting said collapsible frame or stretcher in an upright position, whereby paper can pass over said collapsible frame from a supply reel on the base frame to a receiving reel also on said base frame.

3. In a device of the character described, the combination with a base frame, means on said base frame for supporting delivery and receiving reels, and means for operating the reel-supporting means, of a collapsible frame hinged at one end of the base frame, and braces hinged at the opposite end of the base frame end engaging the collapsible frame for supporting the latter in an upright position, whereby paper can pass from over said collapsible frame from a delivery reel to a receiving reel on the base frame.

4. In a device of the character described, the combination with a base frame and a

paper supporting frame, of two reel supporting means mounted in the base frame, gearing connected with one of said reel supporting means, a pivoted lever carrying
5 means for transmitting motion to said gearing, a finger bar, and a rule joint connecting said finger bar with said pivoted lever.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WARD S. IRELAND.

Witnesses:

S. G. NOTTINGHAM,
GEO. F. DOWNING.