June 29, 1926. 1,590,551

H. D. REESE ET AL

COPYHOLDER FOR LINOTYPE MACHINES

Filed Feb. 24, 1923 2 Sheets-Sheet 1

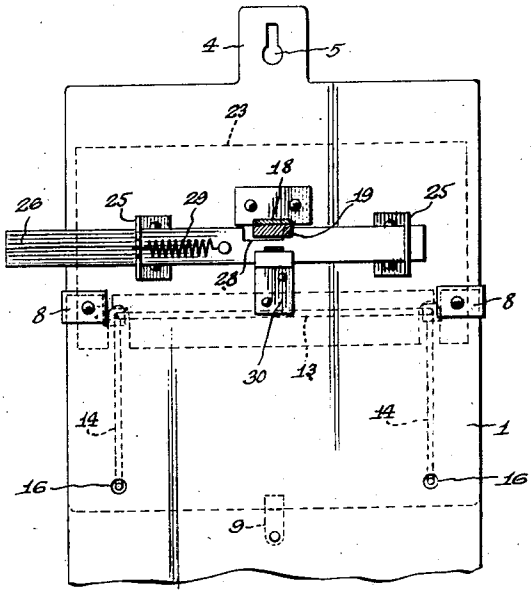


Fig. 2.

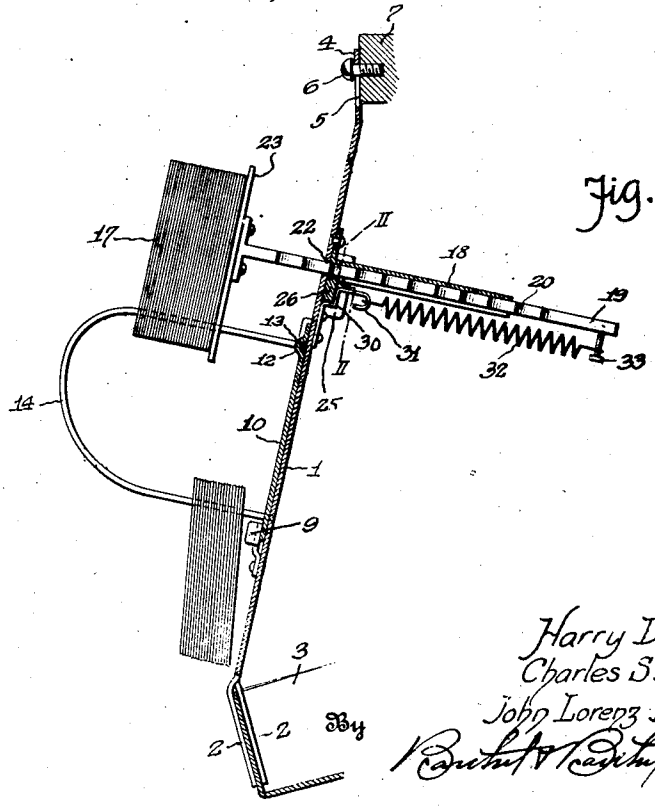


Fig. 1.

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Filed Feb. 24, 1923 2 Sheets-Sheet 2

Fig. 4.

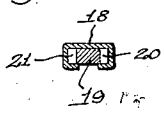
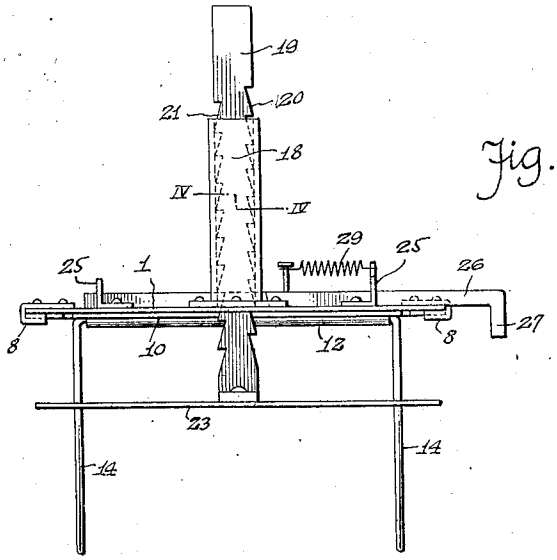


Fig. 3.



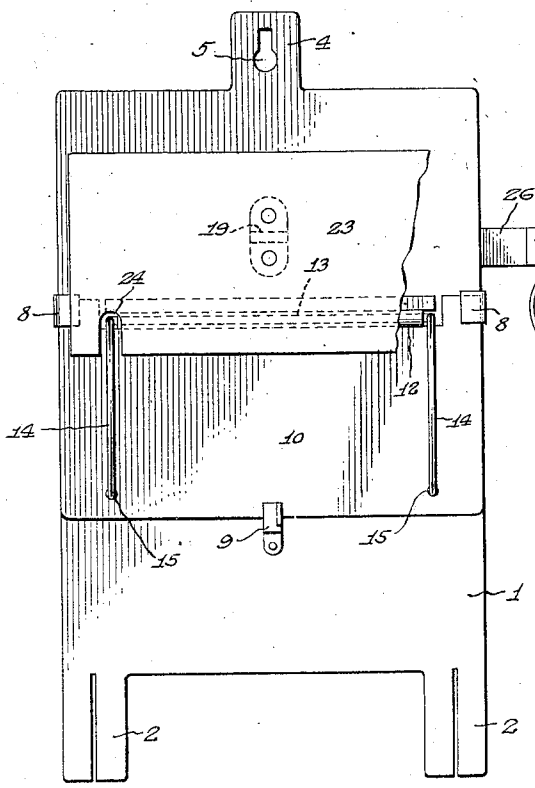


Fig. 5.

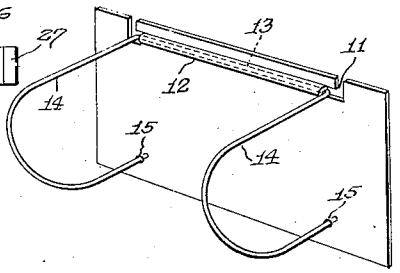


Fig. 6.

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UNITED STATES PATENT OFFICE.

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COPYHOLDER FOR LINOTYPE MACHINES.

Application filed February 24, 1923. Serial No. 620,895.

This invention relates to a copy holder and our invention aims to provide a copy holding device that may be advantageously attached to linotype machines for supporting a multiplicity of cards in position to be easily observed by the operator of the linotype machine. As an instance of such use the manufacturers or compilers of directories employ many cards for indexing purposes, the cards being arranged in groups and mounted so that the cards will not become accidentally displaced, so that the cards can be easily manipulated. Loop holders maintain the cards in groups so that one group of cards can be easily substituted for another group in front of a linotype machine and the loop holders permit of the cards being swung in active and inactive positions.

Our invention further aims to provide a novel support for the loop holders of cards which will permit of the loop holders being interchanged, and associated with such supporting means is a feeding device or escapement mechanism by which active cards may be intermittently advanced to such a position on the loop holders that the cards can be quickly flipped or transferred to an inactive position on the loop holder. The feeding device is disposed so that it will not interfere with the changing of loop holders, also so that it may be conveniently operated without particular care on the part of the operator.

Our invention further aims to provide means for intermittently shifting copy matter in substantially a horizontal direction, in contradistinction to copy holders which raise and lower copy matter in proximity to a typewriter or other machine.

Our invention still further aims to provide a simple, durable, and inexpensive copy holder in which the copy matter is not subject to machine elements or movable parts liable to tear or injure the copy matter.

The construction entering into our copy holder will be hereinafter described and then claimed, and reference will now be had to the drawings, wherein—

Figure 1 is a vertical sectional view of the copy holder showing it attached to suitable supports which may be considered as parts of a linotype machine;

Fig. 2 is a rear elevation of a portion of the copy holder showing parts thereon in section on the line II—II of Fig. 1;

Fig. 3 is a plan of a copy holder;

Fig. 4 is a cross sectional view taken on the line IV—IV of Fig. 3;

Fig. 5 is a front elevation of a copy holder partly broken away, and

Fig. 6 is a perspective view of the loop holders and an anchor plate that may be advantageously used in connection with our copy holder.

In the drawings the reference numeral 1 denotes a plate-like support adapted to be placed at an inclination to the vertical and for this purpose the lower edge of the support has sets of lugs 2 disposed at an angle to the support 1 and adapted to fit over the edge of a tray, frame or the like, designated 3 and representing part of a linotype machine. The upper edge of the support 1 has a single angularly disposed lug 4 provided with an inverted key-hole shaped opening 5 which may be fitted over a tap screw 6 carried by another part 7 of the linotype machine. The elements 2 and 4 represent means by which the support 1 may be conveniently attached to a linotype machine so as to maintain the support 1 at an inclination convenient to the operator of the machine.

At the side edges of the support 1 are cleat-like retaining members 8 and pivotally mounted on the front face of the support 1 is a cleat 9 adapted to cooperate with the retaining members 8 in detachably holding an anchor plate 10 on the support. The pivoted cleat 9 can be swung downwardly to permit of the upper edge of the anchor plate 10 being placed under the retaining members 8 and then the pivoted cleat 9 can be swung upwardly to support the lower edge of the anchor plate 10, so that said anchor plate is firmly held against the front face of the support 1.

The upper edge of the anchor plate 10 is provided with bayonet slots 11 at the ends of a pressed out longitudinally disposed barrel 12 which is adapted for holding the yoke portion or connecting rod 13 of loop card holders 14 disposed in vertical parallel planes with the lower ends of said holders extending into openings 15 and 16 in the plate 10 and support 1 respectively.

On the loop holders 14 is a set or group of cards 17 each provided with copy matter, and these cards are loosely mounted on the holders so that the cards may be shifted from an active readable position to an inactive position, as shown in Figure 1. The cards are apertured to receive the loop holders 14 and said cards are retained upon the loop holders, against accidental displacement, by the anchor plate 10. When it is necessary to substitute other cards for those on the holders 14, said holders can be swung with the barrel 12 serving as a hinge member and the cards removed from the ends of the holders which ordinarily extend into the openings 15 and 16. With the cards on the holders and retained thereon by the anchor plate 10 there is a unitary structure that can be bodily removed from the support 1 thus permitting of another set or group of cards being quickly placed in position. With the cards supported on the upper ends of the holders 14, adjacent the loop portions thereof, the forwardmost cards are in position to be flipped or transferred from the top of the card holding device to the bottom thereof. To intermittently advance the cards on the top of the holding device to a position where the forward or outermost cards may be easily flipped, a feeding device is employed which includes an escapement mechanism.

Mounted on the rear face of the support 1 and projecting rearwardly at a right angle thereto is a channel guide 18 containing a slidable ratchet bar 19 having its edges provided with sets of ratchet teeth 20 and 21, the ratchet teeth 20 being alternately disposed relative to the ratchet teeth 21. The ratchet bar extends through an opening 22 provided therefor in the support 1 and the forward end of said ratchet bar is attached to a head or plate 23 slotted, as at 24, to provide clearance for the loop holders 14, as best shown in Fig. 5. The plate or head 23 provides a backing or rest for the cards 17 to hold said cards in substantially an upright position on the card holders 14 to permit of the copy matter on said cards being easily observed as one card is removed from in front of the following card.

On the rear face of the support 1 are transversely alining bearings or brackets 25 for an escapement member 26 having one end thereof provided with a finger piece 27 adjacent the side edge of the support 1 so that it may be conveniently actuated by a linotype machine operator. The escapement member 26 is recessed, as at 28, to provide clearance for the ratchet bar 19 and the end walls of the recess 28 are adapted to alternately engage the ratchet teeth of the bar 19. Holding the escapement member 26 normally in engagement with the ratchet bar 19 is a coiled spring 29 having one end thereof attached to the escapement member 26 and the opposite end thereof attached to one of the bearings or brackets 25.

Mounted on the rear face of the support 1 and cooperating with the bearings or guides 25 in supporting the escapement member 26 is a bracket 30 provided with a hook-shaped end 31 to which is connected a coiled retractile spring 32, said spring being also connected to a pin 33 carried by the rear end of the ratchet bar 19. The retractile force of the spring 32 is greater than that of the spring 29 and the tendency of the spring 32 is to shift the ratchet bar 19 forwardly, consequently the teeth of said ratchet bar will frictionally bind against the escapement member 26 at the end wall of the recess 28. By shifting the ratchet bar 19 rearwardly it is set for an intermittent forward movement with the spring 32 under tension. By shifting the escapement member 26 first in one direction and then in the other, the ratchet bar 19 will be intermittently released and advanced thus pushing the cards 17 forwardly on the holders 14 to a position where the forwardmost cards may be easily flipped or transferred from the top of the card holding device to the bottom thereof.

It is thought that the operation and utility of our copy holding device will be apparent without further description and while in the drawings there is illustrated a preferred embodiment of our invention, it is to be understood that the structural elements are susceptible to such variations and modifications as fall within the scope of the appended claims.

What we claim is:—

1. A copy holder comprising an inclined support, a head movable to and from the front side of said support and cooperating therewith in maintaining cards in a rearwardly inclined active position from which position the cards can be easily flipped to an inactive position, a ratchet bar carried by said head and extending rearwardly through said support for reciprocation therein to move said head, and a ratchet mechanism carried by the rear side of said support and adapted to be intermittently actuated to advance said head and cause the cards to be flipped to an inactive position.

2. A copy holder comprising an inclined support, an anchor plate adapted to support copy matter, a head slidable relative to said loop holders and adapted to cooperate therewith in maintaining the copy matter in a rearwardly inclined position from which position the copy matter may be easily transferred after being copied, a ratchet bar attached to said head and reciprocable in said support, and a ratchet mechanism carried by said support and adapted for shifting said ratchet bar in said head.

3. A copy holder comprising an inclined support, a detachable anchor plate on said support, loop holders carried by said anchor plate, a head movable to and from said support in a plane above said anchor plate and adapted to cooperate with said loop holders in supporting cards on the upper portions of said loop holders with the cards rearwardly inclined so as to prevent said cards from falling forwardly from said head, and means operable through said support for moving said head to cause said cards to fall forwardly on to the lower portions of said loop supports so as to be removable with said anchor plate.

4. A copy holder as called for in claim 3, wherein said means includes a reciprocable ratchet bar attached to said head, and a mechanism behind said support adapted for intermittently shifting said ratchet bar.

In testimony whereof we affix our signatures.

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