

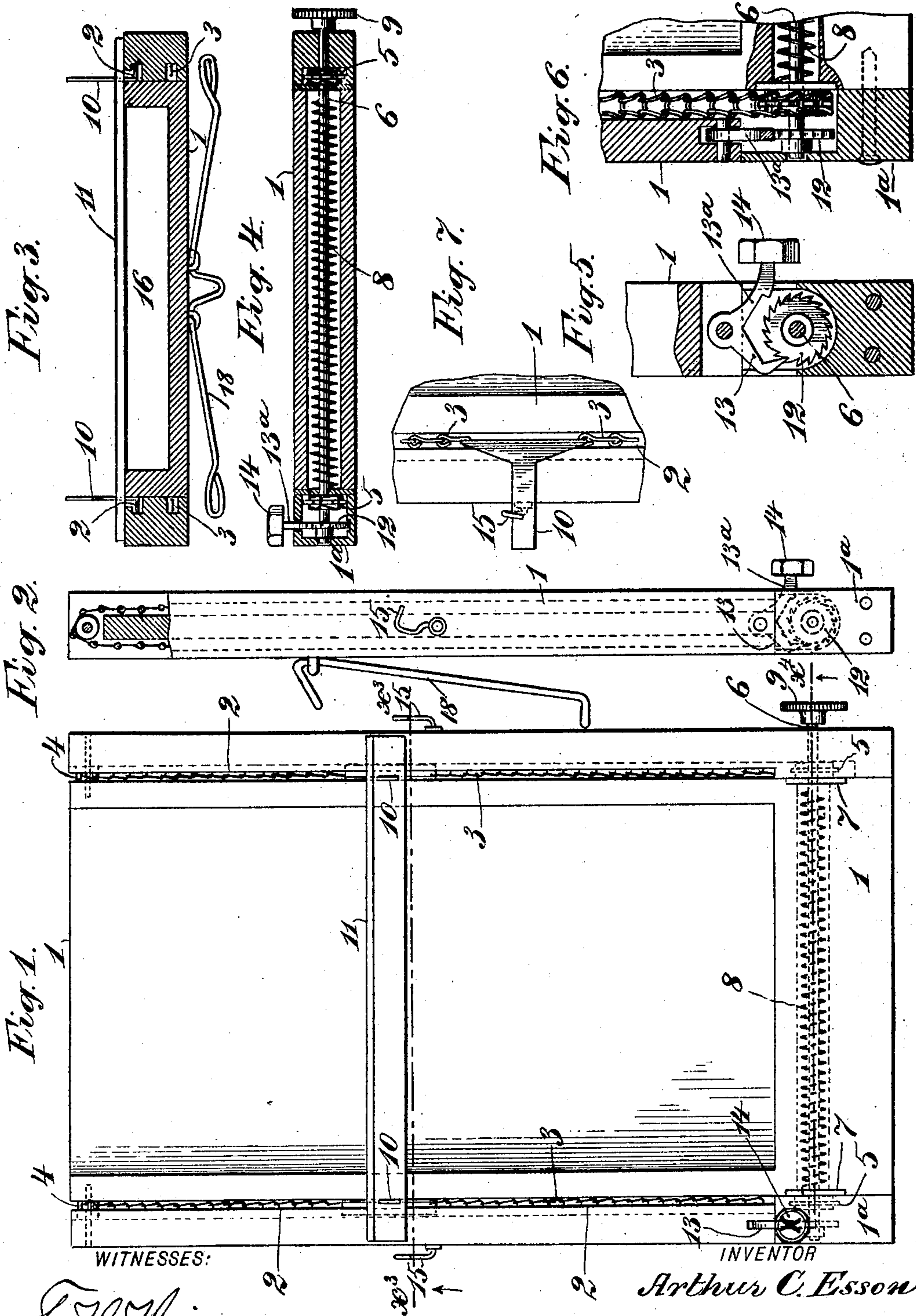
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A. C. ESSON.
COPY HOLDER.

APPLICATION FILED JULY 15, 1903.

NO MODEL.



WITNESSES:
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COPY-HOLDER.

SPECIFICATION forming part of Letters Patent No. 754,983, dated March 22, 1904.

Application filed July 15, 1903. Serial No. 165,706. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR C. ESSON, of the city, county, and State of New York, have invented certain new and useful Improvements in Copy-Holders, of which the following is a specification.

This invention relates to the class of copy-holders in which the line-marker is carried by an endless chain or cord at the side of the support and is movable up and down through the medium of this endless carrier; and the object of the present invention is, in part, to provide a spring for operating the carrier and an escapement for regulating its step-by-step movement, in part to provide a holder adapted to receive either a single sheet or a pad, and in part to provide means for holding the brackets out of the way so that the holder may be packed in a compact manner.

In the drawings, which illustrate an embodiment of the invention, Figure 1 is a front elevation of the holder. Fig. 2 is an edge elevation of the holder. Figs. 3 and 4 are cross-sections at the respective lines x^3 and x^4 in Fig. 1. Figs. 5 and 6 are enlarged detail views of the escapement. Fig. 7 is an enlarged detail view of a bracket, showing the manner of folding it flat for packing the holder.

The construction will vary in its details to some extent according to the materials employed and the taste of the constructor. In the construction shown in the drawings the support is of wood, and this construction will now be described.

1 designates the support, formed of a suitable rectangular board, having in it longitudinal slots or ways 2, in which play endless-chain carriers 3 3, mounted at their upper ends on pulleys 4 4 and at their lower ends on sprocket-wheels 5 5, fixed on a driving-shaft 6, which has bearings in metal plates 7 7, set in the wood. The shaft 6 occupies a transverse bore in the lower part of the support 1, and it is embraced by a coil-spring 8, one end of which is attached to said shaft and the other end to one of the plates 7. On one end of the shaft 6 is a milled button 9 for winding up the spring, and on the chain carriers are mounted, respectively, brackets 10 10 to carry the line-marker 11. This marker, as here

shown, is a strip of wood with apertures in it for the passage of the projecting brackets 10. When the spring 8 is wound up by rotating the shaft 6, the marker 11 is carried up to the top of the support by the brackets on the carriers, and it is held in position and permitted to descend under the influence of the spring 8 with a step-by-step movement by an escapement device now to be described.

On one end of the shaft 6 is secured a ratchet or escapement wheel 12, and mounted pivotally on the support 1 is an anchor 13, the pallets of which engage the teeth of said wheel in the manner of a clock-escapement. On the anchor is an arm 13^a, which extends out through and plays in a slot in the support and has on it a button or thumb-piece 14.

Suppose the sheet to be copied is laid flat on the face of the support, the spring 8 wound up, and the marker 11 at the upper part of the support. By alternately pressing on the escapement-button 14 and removing the pressure therefrom somewhat in the manner of operating the key of a telegraph instrument the escapement permits the spring 8 to rotate the shaft 6 intermittently in such a manner as to cause the marker 11 to descend step by step over the sheet to be copied, said bar moving exactly the same distance each time. The distance the marker moves at each advance of one tooth of the escapement-wheel 12 will of course depend on the proportions of the parts, and my invention is not limited in this respect. It need only be said that the diameter of the sprocket-wheels proportionately to the number of teeth in the escapement-wheel are the governing factors. As the brackets 10 project from the face of the support, they would be in the way and liable to injury in packing the holder. To avoid this, the support is provided at each side with a hook-like retainer 15, and after removing the bar 11 the brackets may be drawn out part way by the yielding of the chains and laid over flatwise, (see Fig. 7,) so as to be tucked under said retainers.

In the construction shown the wooden support has two grooves or ways formed in it to receive the respective front and rear sides of the chain carrier; but this feature is not essential to the invention. There is also a remov-

able block 1^a hollowed out to inclose the escapement device; but this is only a convenience.

The support 1 is recessed at 16 to receive a pad in case the matter to be copied is written or printed on a pad; but this recess does not in any way interfere with single sheets being used with the holder.

The copy-holder described may have at its back a hinged wire prop 18 (seen in Figs. 2 and 3) to support the copy-holder easel fashion, but at a rather flat inclination; but this prop is not essential to the invention.

Having thus described my invention, I claim—

1. In a device for the purpose specified, a support for the copy, a shaft mounted in bearings in said support, a spring which rotates said shaft in one direction, an endless carrier driven by said shaft, a line-marker mounted on said carrier, and an escapement device operatable by hand and controlling the rotation of said shaft under the influence of the said spring.

2. In a device for the purpose specified, a support for the copy having in it a recess for a pad, a transversely-disposed shaft rotatively mounted in bearings on said support, a spring coiled about said shaft for rotating it in one direction, a knob on said shaft for rotating it to wind the spring, an endless carrier on the

support and operated by said shaft, a line-marker mounted on said carrier and extending over the face of the support, and an escapement device, operatable by hand, which controls the rotation of said shaft under the influence of its spring.

3. In a device for the purpose specified, the support for the copy, the endless-chain carrier thereon for the line-marker, the brackets 10 on the said carrier, and the retainer on the support to sustain the respective brackets when folded down flat.

4. In a copy-holder, the combination with the support for the copy, the endless-chain carrier thereon, the transverse shaft 6, mounted rotatively in the holder, the spring 8 about said shaft and adapted to rotate it, the sprocket-wheels on said shaft adapted for driving said chain carrier, the escapement-wheel 12 secured on said shaft, and the rocking anchor 13, having pallets engaging the teeth of the wheel 12 and an operating-arm, substantially as set forth.

In witness whereof I have hereunto signed my name, this 10th day of July, 1903, in the presence of two subscribing witnesses.

ARTHUR C. ESSON.

Witnesses:

HENRY CONNETT,
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