(No Model.)

H. K. DUKE.

COMBINED PEN WIPER AND PAPER WEIGHT.

No. 458,156. Patented Aug. 25, 1891.

Fig. 1.

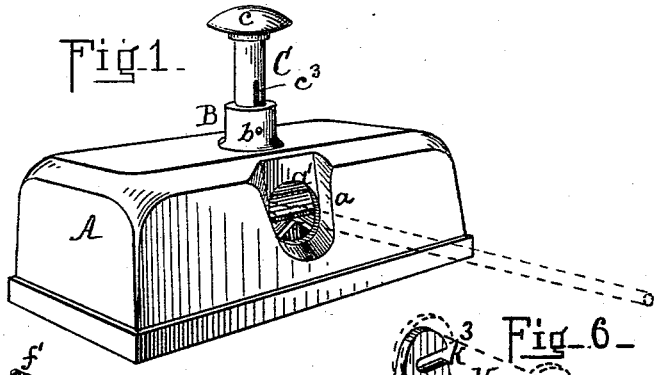


Fig. 5.

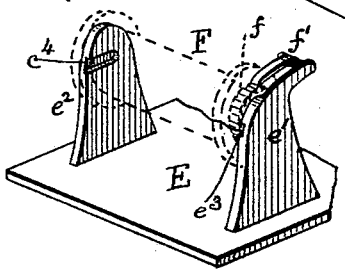


Fig. 6.

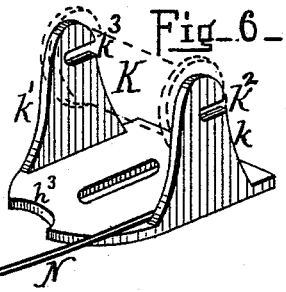


Fig. 2.

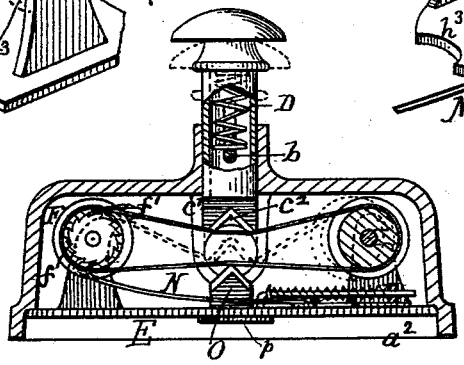


Fig. 3.

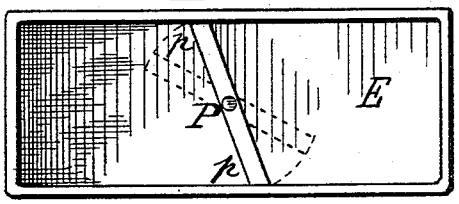
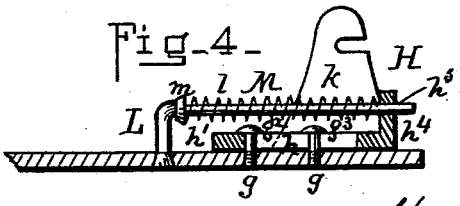


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

HARRY K. DUKE, OF CUMBERLAND, MARYLAND.

COMBINED PEN-WIPER AND PAPER-WEIGHT.

SPECIFICATION forming part of Letters Patent No. 458,156, dated August 25, 1891.

Application filed May 22, 1891. Serial No. 393,711. (No model.)

To all whom it may concern:

Be it known that I, HARRY K. DUKE, a citizen of the United States, residing at Cumberland, in the county of Alleghany and State of Maryland, have invented certain new and useful Improvements in Combined Pen-Wipers and Paper-Weights; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the device ready for use. Fig. 2 is a longitudinal section. Fig. 3 is a bottom view. Fig. 4 is an enlarged detail in section. Fig. 5 is a perspective view of the holder of the stationary spool, and Fig. 6 is a similar view of the holder of the movable spool.

This invention relates to a combined pen-wiper and paper-weight, it being a device wherewith a pen may be wiped and which also may be used as a paper-weight.

The invention consists in the construction hereinafter set forth.

In the annexed drawings, the letter A represents a shell or case of suitable shape and dimensions. On each side, about the middle of the top edge, there is a notch a, from which a hole a' leads within the shell. On a line with this hole and notch transverse the shell at the middle of the top thereof is a nipple B, leading within the shell A, such nipple having a pin b, projecting slightly within. Inside this nipple B and projecting therefrom is the plunger C, which is hollow, has a suitable smooth top c, and inside the shell A has a head c', provided with the transverse notch c^2. This plunger has a slot c^3, through which the pin b projects into the plunger, and inside the plunger is a spring D, which bears between said pin b and the top of the interior of the plunger.

The bottom E of the device fits snugly within the lower rim a^2 of the shell A. This bottom has on its top face e at one end the pair of supports e' e^2, provided with the grooves e^3 e^4, running from the edge to the center. In the inner ends of the grooves, which form bearings for them, are the journals of a spool F. This spool has at one end a ratchet f, which is engaged by a detent f', secured to the top of the support e'. Secured in the other end of the bottom E and projecting upwardly are two pins g g', having the heads g^2 g^3. These pins pass through a slot h in the traveling holder H, the heads being above the base h' of the holder and larger than the width of the slot h. At its inner end this base h' has the notch h^3 and at its outer edge an upturned lip h^4, with a hole h^5 therein. Rising from the sides of this holder H are the supports k k', having the notches k^2 k^3, leading from the back inward to the centers, the inner ends of these slots forming the bearings for the journals of the spool K. In front of this holder H and near the middle of the bottom E, in the inside, is an arm L, from which a stem l projects backward over the holder H and loosely through the hole h^5. Around this stem is a helical spring M, bearing between the lip h^4 and a collar m in the stem l. Fastened to the holder H is a spring-catch or pull-pawl N, which extends over to the other end of the bottom and engages with the teeth of the ratchet f. Secured to the middle of the bottom E, on top, is a block O, having its top convex or sharp, as shown. Passing around the spools F and K is a ribbon of any suitable textile, cotton being preferred. The bottom with its appurtenances is held in place by the catch P, which is pivoted and may be turned so that its ends p p will bind against the edge a^2 of the shell.

The parts being in place, as shown, the pen to be wiped is inserted through the hole a', with the concaved side down, and comes between the top and bottom of the ribbon. Pressure being applied to the plunger C, the pen is bound between the two parts of the ribbon and between the concave and convex faces of the head c' and block O. While the parts are in this position the pen is withdrawn, completely wiping it. When this pressure is applied and the two parts of the ribbon squeezed together, the spool K and its holder H are drawn forward, compressing the spring M. As soon as the plunger is returned its spring D forces it back, and at the same time the spring M forces the holder

H back and the pull-pawl N gives the spool F a partial turn, bringing a fresh part of the ribbon under the head of the plunger.

Having thus described my invention, what I claim is—

1. A shell or case having a hole in both sides, a ribbon within, and a plunger, as set forth.

2. A shell or case having a hole in both sides, two spools with a ribbon over them, and a plunger, as set forth.

3. A shell or case having a hole in both sides, two spools, one stationary and the other movable, with a ribbon over them, and a plunger, as set forth.

4. A shell or case having a hole in both sides, two spools, one stationary and the other movable, with a ribbon over them, the former provided with a ratchet and the latter having a holder provided with a pull-pawl, which engages said ratchet, and a plunger, as set forth.

5. The combination of the shell or case A, having a hole in its side, the spool F, having the ratchet *f*, the holder H, having the pull-pawl N, the spool K, journaled in such holder, the convex block O, and the plunger D, having the concave head *c'*, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY K. DUKE.

Witnesses:
J. ED. DUKE,
F. M. OFFUTT.