(No Model.)

E. R. HORTON.

MUSIC OR PAPER HOLDER.

No. 363,142. Patented May 17, 1887.

Fig. 2.

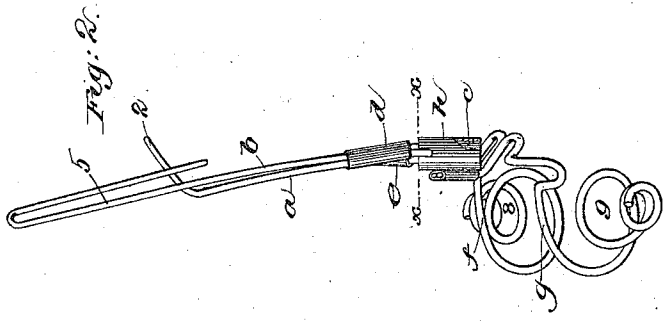


Fig. 3.

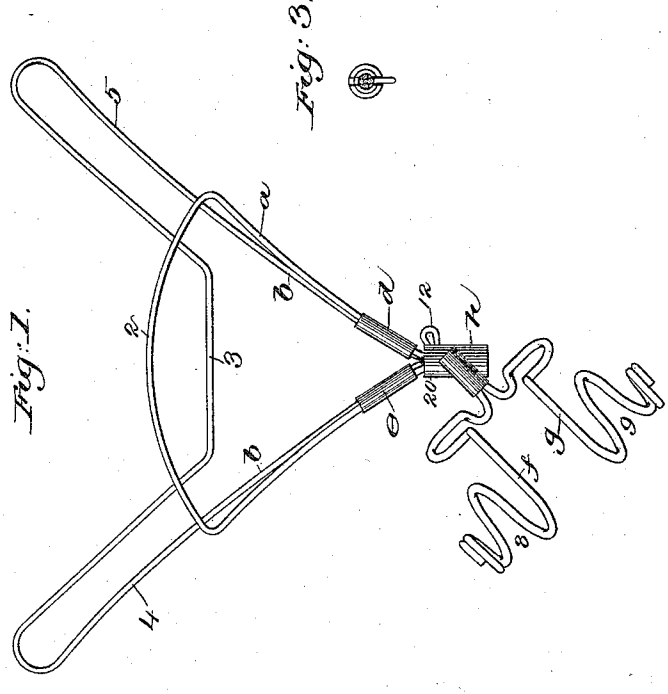
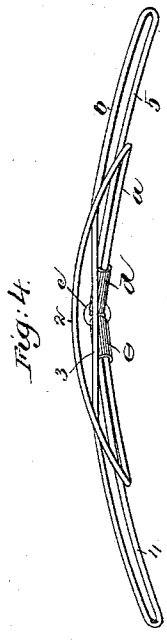


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

ERVIN R. HORTON, OF NEEDHAM, MASSACHUSETTS.

MUSIC OR PAPER HOLDER.

SPECIFICATION forming part of Letters Patent No. 363,142, dated May 17, 1887.

Application filed July 20, 1886. Serial No. 208,532. (No model.)

To all whom it may concern:

Be it known that I, ERVIN R. HORTON, of Needham, county of Norfolk, and State of Massachusetts, have invented an Improvement in Music or Paper Holders, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to construct a music or paper holder or clamp which may be employed to hold in upright position sheets of music or paper.

The invention consists of a clamp composed of spring-wire, or equivalent material, bent to form loops, between which the sheet of paper is held, said loops being curved in the direction of their width, so that the sheet of paper, when placed between them, will be curved or bent vertically at or near its center, as when held in the hand between the thumb and fingers, the curve or bend in the sheet stiffening the sheet and preventing it from tipping or bending forward or backward, the said loops at one end being firmly connected the one to the other.

My invention also consists of a clamp composed of two loops of wire, or equivalent material, between which the sheet of paper is placed, combined with a holder for the clamp, the latter having an attaching arm or arms to retain the clamp in position upon the framework of the instrument—as, for instance, upon the scroll of a violin.

That one of the loops of the clamp occupying a position at the rear side of the sheet of paper is bent to present two fingers or arms extending upward at each side of the loop, and the wire is also curved in the direction of its width, while the other loop, located in front of the sheet of paper, is somewhat shorter and projects upward and backward between the two upwardly-extended arms of the rear loop, so that the sheet of paper will be bent or curved vertically at or near its center, to thus prevent the same from tipping or bending in any direction, the co-operation of the two loops producing the same result which is ordinarily obtained by placing a sheet of paper against the first and second fingers of the hand and pressing the thumb against the paper between the first and second fingers.

Figure 1 shows in front elevation a music or paper clamp, together with its attaching arm or device; Fig. 2, a side view of Fig. 1; Fig. 3, a section of Fig. 2, taken on the dotted line *x x;* and Fig. 4 a top view of the clamp to show the curve in the direction of the width of the loops.

The clamp consists of two loops, *a b*, of spring-wire, or other equivalent material, the ends of which are secured together by a band, *c*, (see Fig. 2,) other bands, *d e*, being placed around the loops near the band *c* to further secure the loops together; but, if desired, instead of the two bands *d e*, the wires might be soldered or twisted together.

The loop *a* is bent into triangular form or fan shape, as shown in Fig. 1, and the wire 2, at the top of the loop, is curved in the direction of its length, as shown in Fig. 1, and the loop is bent backwardly, as shown by Fig. 2.

The loop *b* is considerably larger than the loop *a*, but of somewhat similar shape for part of its length; but its top is bent downward at 3 to form two fingers or arms, 4 5. The portion 3 of the loop *b* is also curved in the direction of its length, as shown in Fig. 4, to give to the loop a curve in the direction of its width similar to the loop *a*.

The sheet of music or other paper is placed between the two loops *a b*, and by the curve given to the loops in the direction of their width the said sheet of paper is bent vertically or made to assume a curve at or near its center to prevent the said sheet of paper from tipping or bending in any direction, this result being the same as that accomplished by holding a sheet of paper against the first and second fingers of the hand and pressing the thumb against the paper between the first and second fingers.

The clamp thus described may be employed for various purposes, such as holding music for the smaller musical instruments.

To enable the clamp to be attached to a musical instrument, or to any stationary frame or object, I have provided a holder having an attaching device, herein shown as composed of two spring-arms, they being of suitable shape to embrace snugly that part of the instrument or thing to which the clamp is to be attached.

In the present instance I have shown an attaching device by which the clamp or holder

may be attached to a violin, the said attaching device consisting of spring-wire bent to form two arms, *f g*, the ends of which are coiled, as at 8 9, to engage the usual hubs or projections of the scroll of the violin when the said arms are sprung apart and placed upon the scroll.

The attaching device herein described is secured to and forms part of the holder in which the clamp is placed, said attaching device being connected with the said holder at a suitable angle to bring the music in vertical position.

The clamp at its lower end is provided with a projection, (herein shown as a loop, 12,) which enters a slot cut in the top of the holder *h*, to thus prevent the clamp from rotating.

By employing a holder, *h*, in which the clamp may be placed, the position of the said clamp may be reversed, in order that either face of the sheet may be brought to view, and to accomplish this result the holder *h* is slotted at 20 to receive the projection 12 when the clamp or holder is reversed.

It is obvious that the attaching device, instead of being made of spring-wire, as shown, may be made of metal, either rigid or yielding, and of such form as desired to attach the clamp to an instrument and hold it in upright position. The attaching device will be modified in form agreeably with the instrument for which it is designed.

I claim—

1. A clamp comprising a loop, *a*, of substantially triangular fan shape, and having its top portion curved in the direction of its length and bent backwardly, and the loop *b*, larger than the other loop, of the same general shape, having its top depressed and curved and provided with arms 4 5, and connected with said other loop, substantially as shown and described.

2. The two clamping-loops *a b*, curved in the direction of their width to receive and hold paper, combined with a holder, *h*, and the attaching device comprising the coiled ends 8 9, substantially as described.

3. A clamp comprising a loop, *a*, of substantially triangular fan shape, and having its top portion curved in the direction of its length and bent backwardly, and the loop *b*, larger than the other loop of the same general shape, having its top depressed and curved, and provided with arms 4 5, and connected with said other loop, a holder, *h*, in which said loops are secured, and the attaching-arms *f g*, attached to said holder and constructed to engage the article to which they are designed to be applied, substantially as described.

4. A clamp composed of two loops bent to hold the paper, combined with a holder in which the said clamp is pivoted, and means, substantially as described, to engage the holder to prevent rotation of the clamp, and an attaching device for securing the holder with the clamp therein in place, substantially as described.

5. In a music or paper holder, a clamp to hold the paper, combined with a holder in which said clamp is pivoted, and means, substantially as described, to engage the clamp with said holder to bring either of its faces in view, substantially as described.

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

ERVIN R. HORTON.

Witnesses:

BERNICE J. NOYES,

FRED L. EMERY.