

(No Model.)

V. VIZET.

COMBINED PILE WIRE HOLDER AND CUTTER FOR LOOMS.

No. 544,142.

Patented Aug. 6, 1895.

fig: 1.

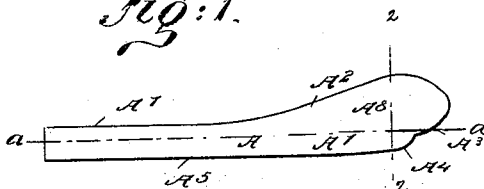


fig: 2.

fig: 4.

u A6

fig: 3.

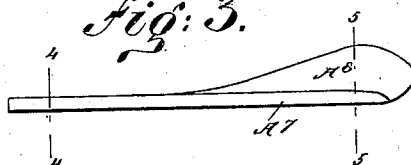


fig: 5.

fig: 6.

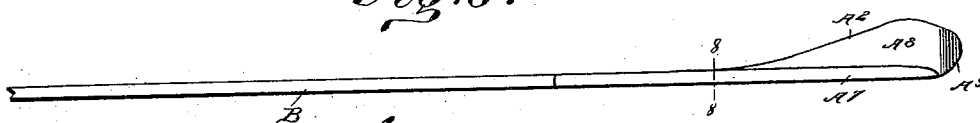


fig: 7.

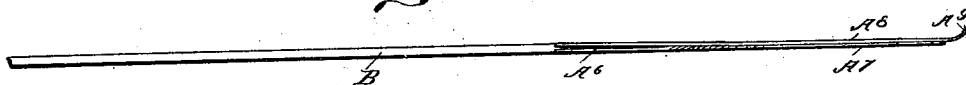


fig: 9.

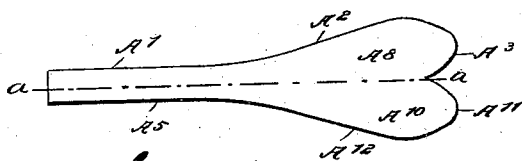


fig: 10.

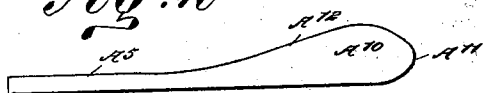
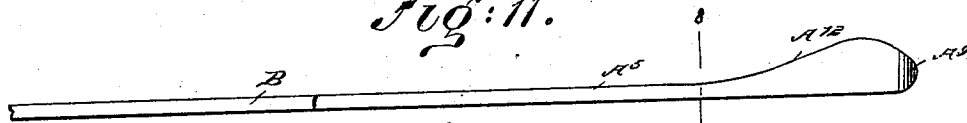


fig: 8.



fig: 11.



WITNESSES:

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fig: 12.



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VICTOR VIZET, OF NEW ROCHELLE, NEW YORK.

COMBINED PILE-WIRE HOLDER AND CUTTER FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 544,142, dated August 6, 1895.

Application filed May 27, 1895. Serial No. 550,899. (No model.)

To all whom it may concern:

Be it known that I, VICTOR VIZET, of New Rochelle, in the county of Westchester and State of New York, have invented a new and Improved Combined Pile-Wire Holder and Cutter for Looms, of which the following is a full, clear, and exact description.

My invention relates to a combined holder and cutter for pile-wires of looms, and has for its object to provide an article of the above indicated class which will be simpler to manufacture and stronger in use than those produced hitherto.

Pile-wire holders and cutters as now constructed comprise a blade which is fitted into a sheath formed upon the wire.

According to my present invention the blade or cutter is made in one piece with the sheath to receive the end of the wire, and by this construction, which will be fully described hereinafter and the novel features whereof I will specifically point out in the claims, I secure a much stronger pile-wire holder than has been possible to produce heretofore.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 shows a blank for producing one form of my improved pile-wire holder and cutter. Fig. 2 is a section thereof on line 2 2 of Fig. 1. Fig. 3 is a side elevation of the holder and cutter formed from the blank shown in Fig. 1. Figs. 4 and 5 are cross-sections thereof on the lines 4 4 and 5 5, respectively, in Fig. 3. Fig. 6 shows the article represented in Fig. 3 as connected with the pile-wire. Fig. 7 is a plan view of the holder and pile-wire. Fig. 8 is a cross-section on the line 8 8 of Fig. 6. Fig. 9 represents another blank for producing the pile-wire holder and cutter according to my invention. Fig. 10 illustrates the holder and cutter formed from the blank shown in Fig. 9. Fig. 11 is a side elevation of the said holder and cutter with the pile-wire attached thereto, and Fig. 12 is a broken plan view of the same.

In carrying out my invention I employ a blank A, as illustrated in Fig. 1, which has an outline provided with a straight portion A' and a curved portion A², which in the finished article forms the knife-edge of the cutting-

blade, the said curved portion being continued in a reverse curve A³, as shown in Fig. 1, and from and beyond the said reverse curve there extends a heel portion A⁴, and generally an abrupt turn or notch is formed between the portions A³ and A⁴. The straight back edge A⁵ of the blank is substantially parallel to the straight portion A', and is located at such a distance therefrom that the line *a a* drawn parallel to A' and A⁵ through the notch between the portions A³ and A⁴ will pass approximately midway between the said parallel lines A' and A⁵.

The blank having been cut of the form described the combined pile-wire holder and cutter is formed therefrom by bending that portion of the blank which extends beyond the line *a a*—that is, the portion having the curved outlines A⁴ A⁵ over the portion having the edge A²—so as to form a sheath A⁶, as will be seen best in Fig. 4. The heel portion designated as A⁷ in Fig. 3 is preferably bent into close contact with the main or blade portion A⁸, as will be seen in Fig. 5, whereby great strength is given to the said blade, and the sheath A⁶ extends only along the straight portion A'. Into the said sheath I insert the end of the pile-wire B (see Fig. 7) and connect the pile-wire and the combined holder and cutter by pressing the parts together in a suitable machine. It will be understood that the blade portion A⁸ is sharpened in the usual manner and also may have a lateral bend, as indicated at A⁹ in Figs. 6 and 7.

In the construction illustrated in Fig. 8, the heel portion A⁷ extends only over a part of the blade portion A⁸, and the cutting edge A² is formed entirely upon the said blade portion. In some cases it is desirable to further strengthen the cutter and particularly the blade portion thereof, and for this purpose I may give the blank the shape illustrated in Fig. 9, in which the parallel lines A' and A⁵ run at approximately equal distances from the central or axial line *a a* in the same manner as above described in reference to Fig. 1, and the face portion A⁸ also is of the same construction as previously described, having a blade, a cutting-edge A², and the reverse curve A³. The heel portion A¹⁰, however, is made of exactly the same shape as the face portion, having a curved outline A¹¹ and A¹²

corresponding to $A^3 A^2$, so that when the material is doubled up along the central line $a a$ (which passes through the notch between the reverse curves A^3 and A^{11}) the straight and curved edges of both the face portion and the heel portion will be superimposed to form a combined holder and cutter of the form illustrated in Fig. 10. The portions which constitute the blade or cutter proper will be bent into actual close contact, while the portions along the straight edges $A' A^5$ will be left separated to form a sheath in a manner similar to that illustrated in Fig. 4, and the pile-wire B will be connected therewith in the same manner as explained hereinbefore.

It will be seen that in each of the two constructions the notch, which is located upon the line $a a$, is so arranged that upon folding the heel portion and the face portion the parallel edges A' and A^5 will come substantially into alignment with each other.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The herein-described combined pile wire holder and cutter, comprising a blade portion, and a sheath extending longitudinally thereof and formed integrally therewith, substantially as described.
2. The herein-described combined pile wire holder and cutter, comprising a face portion provided with a cutting edge, and a heel por-

tion folded over against that end which carries the cutting edge, and spaced from the other end to form a sheath for the reception of the pile wire, substantially as described.

3. A blank for a combined pile wire holder and cutter, the said blank having a face portion and a heel portion provided with substantially straight and parallel edges, the face portion also having a curved edge adapted to form a cutter, and a notch located at the division between the face portion and the head portion and upon a line drawn approximately centrally between the parallel edges of the blank and parallel thereto, substantially as described.

4. A blank for a combined pile wire holder and cutter, comprising a face portion and a heel portion of substantially identical shape, and each provided with a curved edge adapted for a blade, and also with a straight edge adapted to form a sheath for the pile wire, substantially as described.

5. As a new article of manufacture, the herein-described blade for pile cutters, said blade being formed with a sheath extending longitudinally thereof and adapted to receive the pile wire, as set forth.

VICTOR VIZET.

Witnesses:

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JOHN LAUER.