

(No Model.)

G. SEGSCHNEIDER.
PILE WIRE FOR LOOMS.

No. 464,043.

Patented Dec. 1, 1891.

FIG. 1.

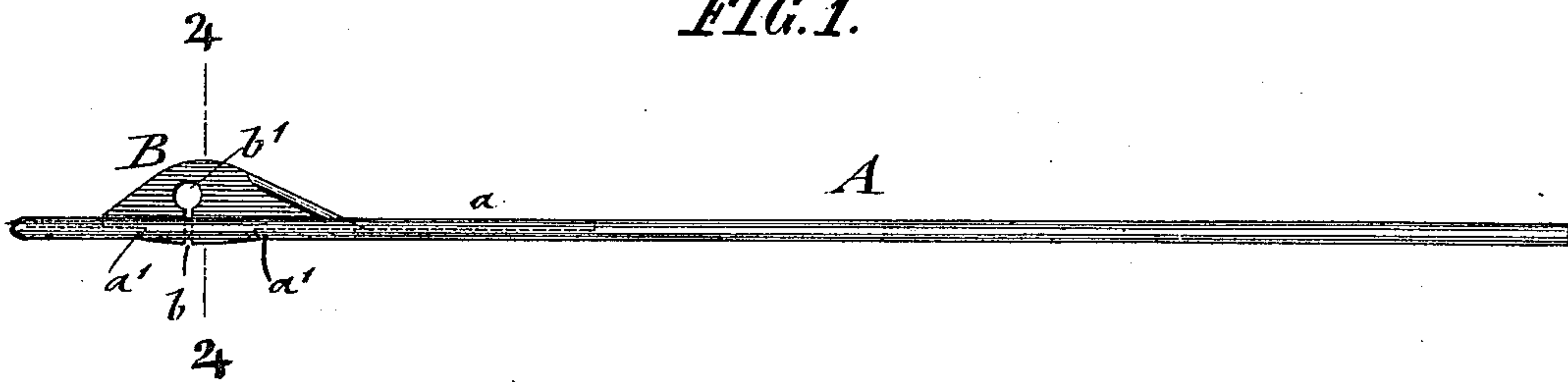


FIG. 2.

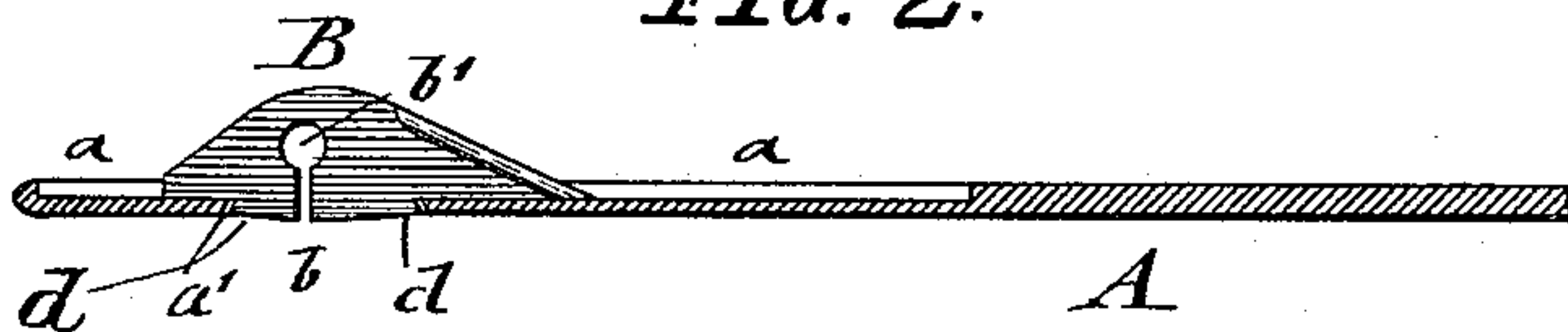


FIG. 3.

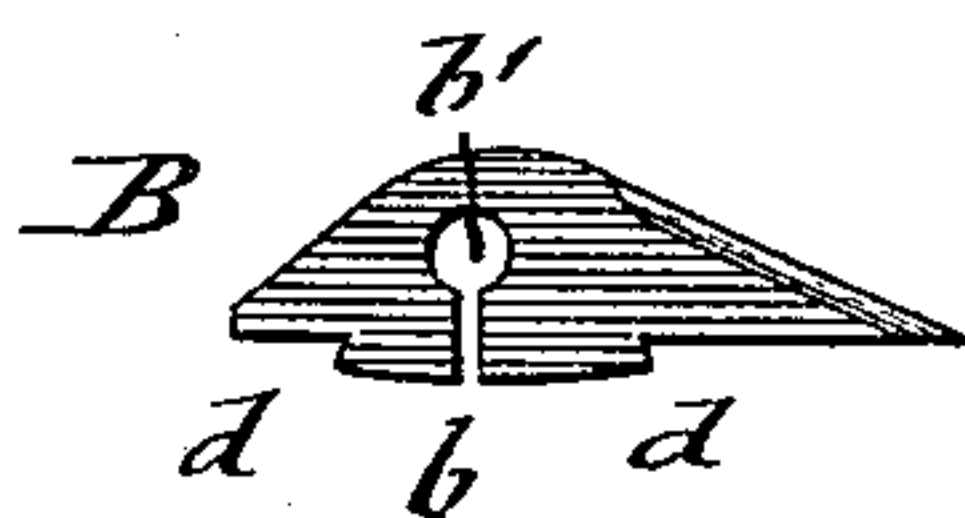
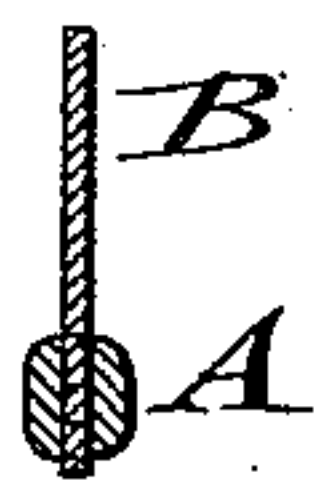


FIG. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GUSTAV SEGSCHEIDER, OF YONKERS, NEW YORK, ASSIGNOR TO THE
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PILE-WIRE FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 464,043, dated December 1, 1891.

Application filed July 10, 1891. Serial No. 398,995. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV SEGSCHEIDER, a citizen of the United States, residing at Yonkers, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Pile-Wires for Looms, of which the following is a specification.

This invention relates to an improved pile-wire which is intended for use in looms for making cut pile fabrics, and in which the blade or cutting-knife is applied to the end of the pile-wire in such a manner that it can be readily inserted or removed therefrom, so that the blades can be sharpened with great facility and the manufacture of the pile wires and cutters rendered simple and less expensive.

The invention consists of a combined pile wire and cutter composed of a pile-wire having a grooved and slotted end and of a blade that is sprung into said slot, said blade being sharpened at the inner edge and provided with a transverse slot and an opening at the end of the slot and with shoulders at the lower edge of the blade, so that the blade is retained by its spring action in the slotted end of the pile-wire.

In the accompanying drawings, Figure 1 represents a side elevation of my improved pile wire and cutter. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a side view of the blade shown as detached from the pile-wire; and Fig. 4 is a vertical transverse section on line 2 2, Fig. 1.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a pile-wire which is provided at its outer end with a longitudinal groove *a*, that is cut into the upper edge of said pile-wire, a portion of said groove *a* being extended through the lower part of the pile-wire, so as to form a slot *a'*. The groove *a* and slot *a'* are preferably produced by means of a circular saw, by which the groove is cut first into the upper edge of the pile-wire and then the slot in the lower part of the same. A detachable blade B is inserted into the grooved and slotted end of the pile-wire A and firmly retained in posi-

tion in the same by the spring action of the blade itself, which spring action is produced by providing the blade with a slit *b*, extending from its lower edge and an opening *d* at the inner end of the slit *b*. At the lower edge of the blade B are arranged projecting shoulders *d d*, by means of which the blade can be sprung into the groove and slot *a a'*, said blade being slightly pressed together by means of suitable pliers, so that the insertion of the shoulders of the blade into the grooved and slotted end of the pile-wire is readily accomplished. The blade is in the same manner detached from the pile-wire when the inner sharp edge of the same is dulled by use, the detached blade being readily sharpened at its inner edge. By keeping a number of sharpened blades B ready for use they can be quickly inserted into the pile-wires, so that the same are always ready for cutting the piles of the fabrics which have to be cut. The blade B is shown in detail in Fig. 3, it being in the shape of an obtuse-angled triangle, in which the obtuse angle is rounded off, and in which the longer inclined edge is sharpened while the rear part or heel remains blunt. The blade is tempered at its middle thinner part, so that an effective spring action is exerted on the longer sharp part and the blunt shorter heel, whereby the shouldered base of the same is securely locked into the grooved and slotted end of the pile-wire.

By constructing the pile-wire with a detachable cutter of the form described the same can be manufactured cheaper than pile-wires with detachable cutters heretofore in use, while the removal and insertion of the blades is greatly facilitated and still the rigid position of the blade in the pile-wire secured by the interlocking action of the shoulders in the slot, and by the support given to the remaining portions of the base of the blade by the longitudinal groove in the upper edge of the pile-wire.

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

1. A combined pile wire and cutter composed of a pile-wire having a longitudinal groove in its upper edge and a slot in its bot-

tom edge, and a spring-blade provided with shoulders at its base, said blade being adapted to be inserted into said slotted groove, substantially as set forth.

5 2. A combined pile wire and cutter composed of a pile-wire having a longitudinal groove in its upper edge and a slot in its bottom edge, and a detachable blade having a slit extending from its base in an upward direction and terminating in an opening in the
10 body of the blade, and shoulders at the base of the blade, substantially as set forth.

3. A blade for pile-wires, provided with a slot extending from the base toward the middle part of the blade and terminating in an
15 opening in the body of the blade, and shoulders

at the base of the blade, substantially as set forth.

4. A blade for pile-wires, provided with a sharp slanting inner edge, a blunt outer edge, 20 a slit extending from the base toward the middle part of the blade and terminating in an opening in the body of the blade, and shoulders on the base, one at each side of said slit, substantially as set forth.

25 In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

GUSTAV SEGSCHNEIDER.

Witnesses:

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H. J. PECK.