

(No Model.)

G. SEGSCHEIDER.
PILE WIRE FOR LOOMS.

No. 551,654.

Patented Dec. 17, 1895.

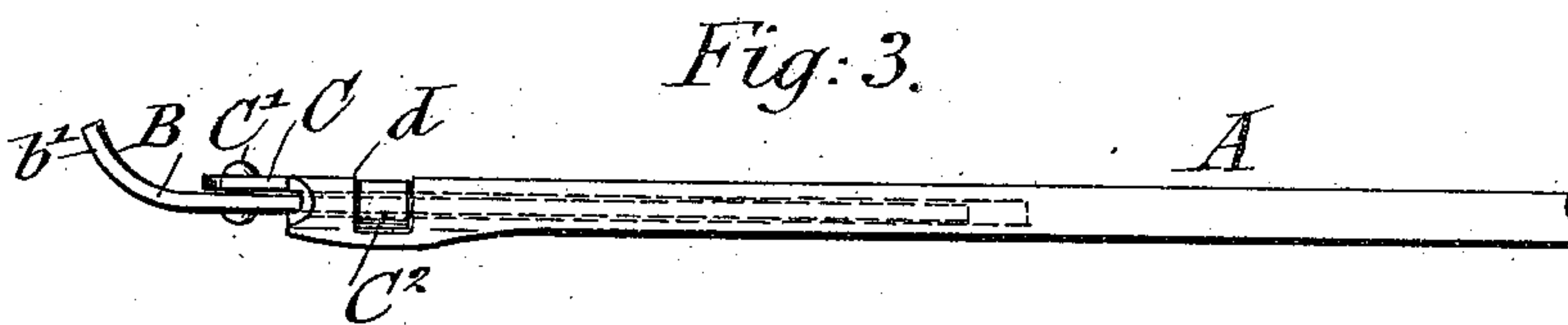
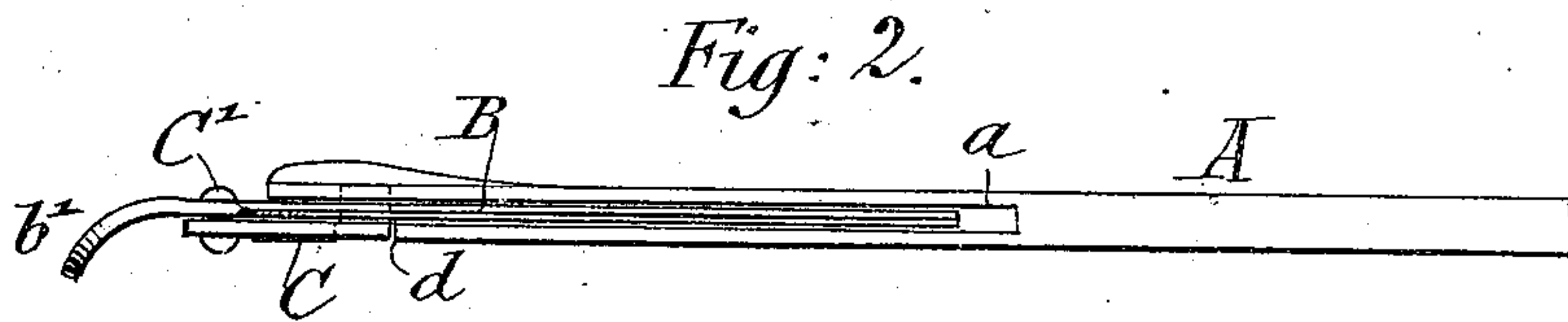
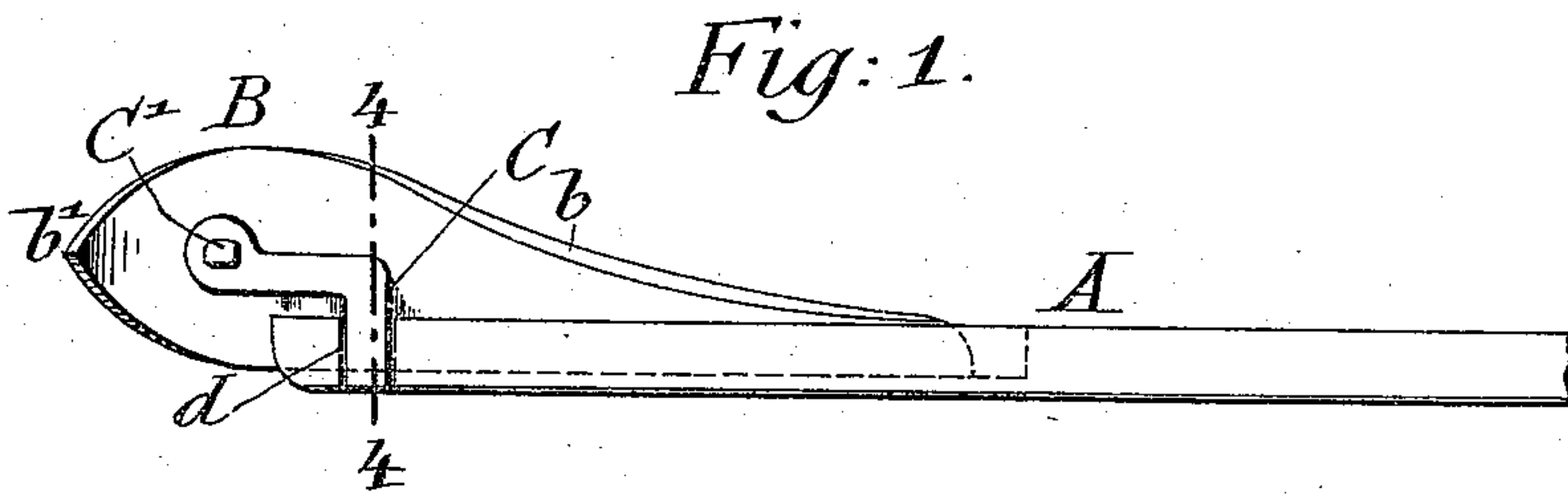


Fig: 4.

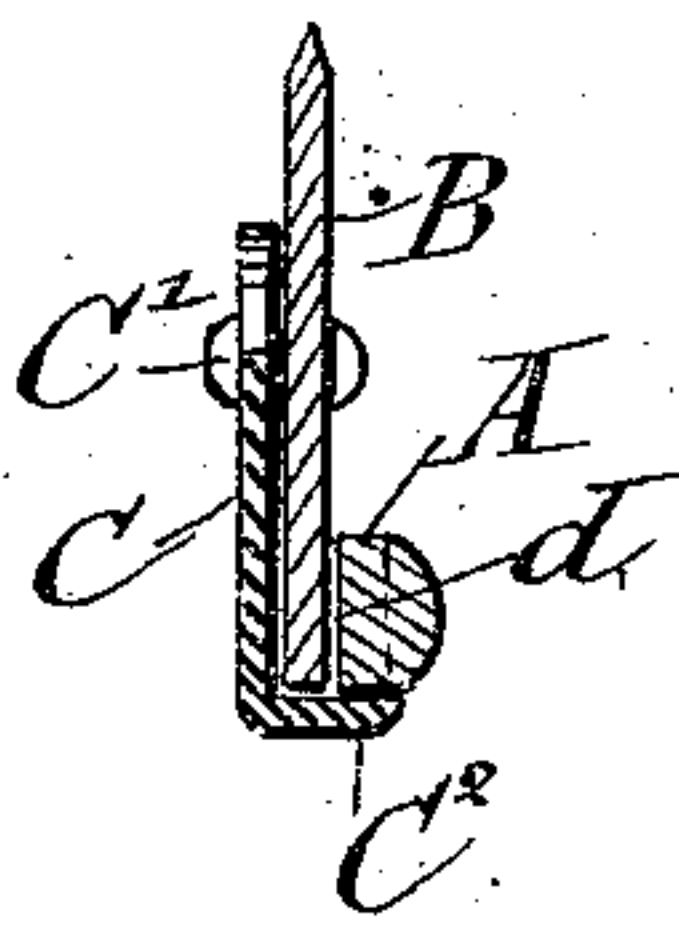
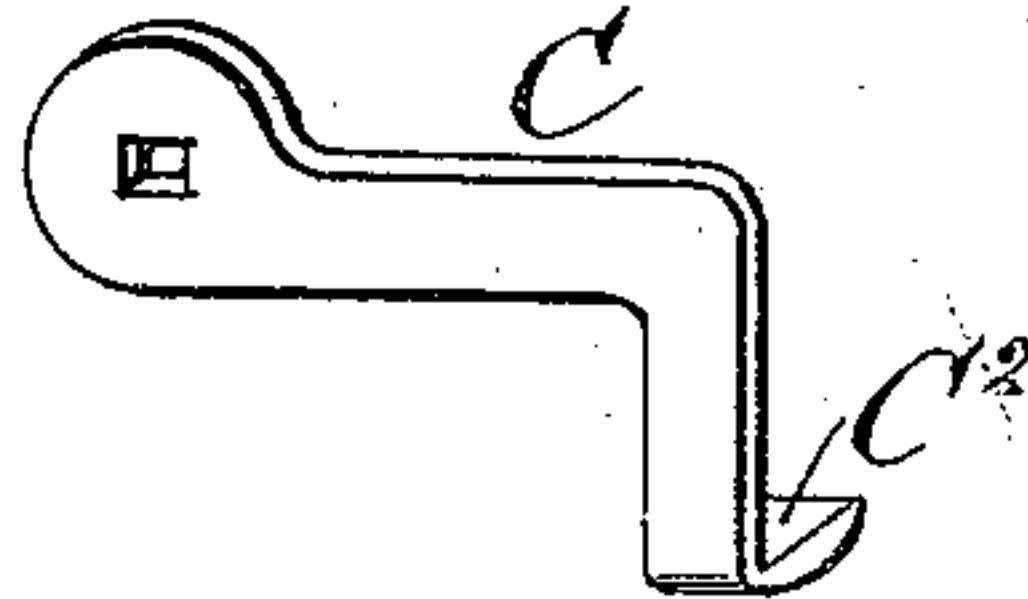


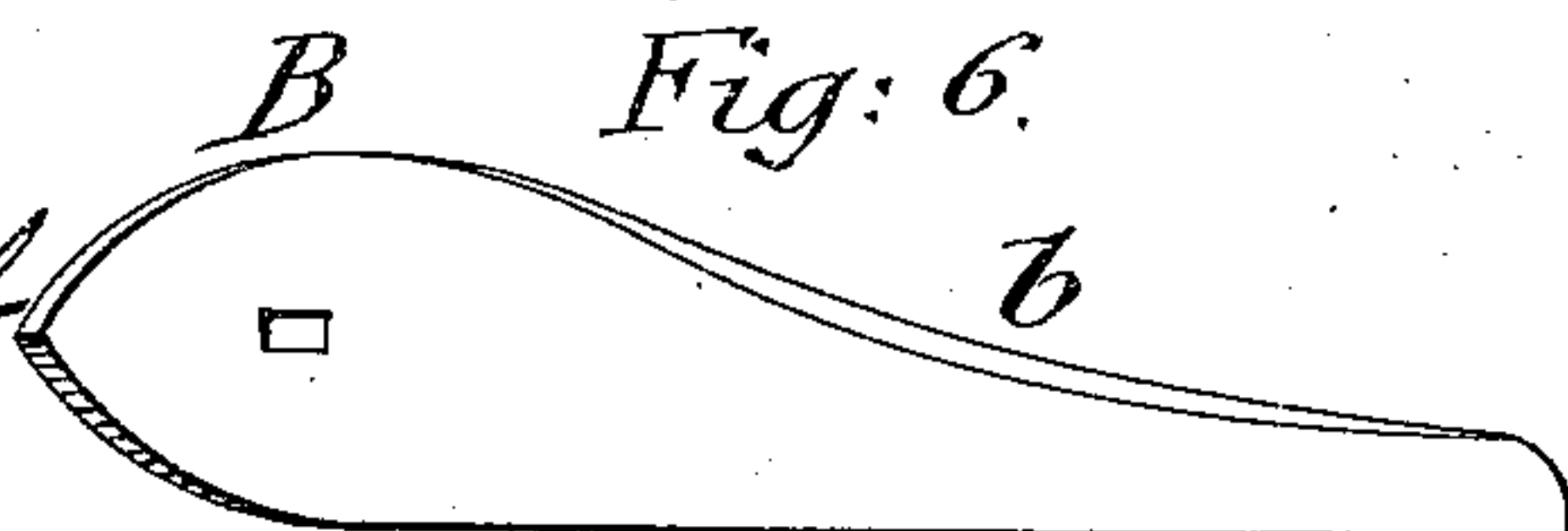
Fig: 5.



WITNESSES:

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Fig: 6.



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UNITED STATES PATENT OFFICE.

GUSTAV SEGSCHEIDER, OF YONKERS, NEW YORK, ASSIGNOR TO JOHN T. WARING, OF SAME PLACE.

PILE-WIRE FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 551,654, dated December 17, 1895.

Application filed August 31, 1895. Serial No. 561,078. (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 for looms of that class in which the cutting-blade is secured to the grooved end of the pile-wire or into a grooved holder attached to the pile-wire, and locked thereto, without weakening the body of the cutting-blade by means of slits or recesses, as has been the case heretofore, so that the cutting-blade can be used for a considerable length of time and considerably shortened without weakening the body of the blade; and the invention consists of a pile-wire for looms provided with a grooved end recessed at one side near the outer extremity of said end, a blade having an inwardly-slanting sharpened edge and also a blunt base which is inserted into said groove, and a locking-spring attached to the outer end of the cutting-blade and provided with a laterally-extending tongue or heel at its free end, said spring being adapted to engage the recessed end of the pile-wire so as to lock the blade firmly in position in the same, as will be described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of my improved pile-wire for looms. Fig. 2 is a top view of the same, and Fig. 3 is a bottom view of the same. Fig. 4 is an enlarged vertical transverse section on line 4 4, Fig. 1; and Figs. 5 and 6 are respectively a perspective view of the locking-spring and a side elevation of the cutting-blade of my improved pile-wire.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a pile-wire for looms of the ordinary construction, which is provided at its end with a longitudinal groove *a* or with a longitudinally-grooved holder that is soldered, brazed, or otherwise applied to the end of the pile-wire. The grooved portion of the pile wire or holder

serves for receiving the base of the cutting-blade B, by which the pile of the fabric is cut as the pile-wire is moved transversely across the loom.

The cutting-blade B is provided with a downwardly-slanting sharpened edge *b*, which extends from the widest portion of the blade to the innermost point of the same, the straight base of the blade being blunt, so as to firmly rest throughout its entire length in the groove of the pile-wire. The outer end of the blade is made tapering and bent up to form a guard *b'*, that is usually employed in pile-wires of this class, so as to produce the glancing off on the reeds and prevent injury to the same. The outer end of the pile wire or holder is provided with a side recess *d*, which extends under the bottom of the grooved end, the pile wire or holder being preferably thickened along the opposite side, so as to reinforce it at the outer end and make up for the diminished strength caused by the recess. To the body of the cutting-blade B at the widest part of the same is riveted, preferably by a rivet *C'* having a square shank, a flat spring *C*, which is preferably made in shape of an *L*, that extends into the side recess *d* of the wire or holder, said spring being provided at its lowermost free end with a laterally-extending heel or shoulder *C*², that springs in below the blunt base of the cutting-blade and serves thereby to lock the cutting-blade firmly to the holder, so as to prevent the release of the blade from the pile-wire.

Owing to the square shank of the rivet *C'*, the position of the locking-spring *C* on the blade cannot be changed, and hence the locking-spring will always engage in the side recess of the pile wire or holder, as shown in Figs. 1 and 4. The cutting-blade can be readily inserted into the pile wire or holder by slightly lifting the locking-spring and inserting the blade in the groove of the pile-wire and sliding it inwardly until the locking-spring has passed over the outer end of the pile-wire and is in line with the side recess of the same so as to engage in it. For detaching the cutting-blade the locking-spring is lifted out of the recess, upon which the cutting-blade can be removed from the grooved

end of the pile-wire. Instead of grooving the holder or the pile-wire after making the same, either may be cast with the groove in it.

The advantages of my improved pile-wire for looms are, first, that a stronger cutting-blade is obtained, as the body of the same is not weakened by slits or recesses, as has been the case in similar pile-wire constructions heretofore in use; second, that the cutting-blade can be used for a greater length of time, as it can be repeatedly sharpened down to the edge of the locking-spring without weakening the body of the blade, and, third, that the cutting-blades can be quickly inserted and readily removed from the pile wire or holder whenever they have to be sharpened.

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

1. The combination, with a pile-wire having a grooved outer end and a recess in the side and bottom of said grooved end, of a cutting-

blade inserted into said grooved end, and a locking-spring attached at one end to the body of the blade, its free end being adapted to engage the recessed outer end of the pile-wire, substantially as set forth.

2. The combination, with a pile-wire having a grooved outer end and a recess in the side and bottom of said grooved end, of a cutting-blade inserted into said grooved end, and a locking-spring attached at one end to the body of said blade and provided with a laterally-bent heel or shoulder at its opposite or free end, said heel being adapted to engage the side and bottom recess of the pile-wire, substantially as set forth.

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

GUSTAV SEGSCHNEIDER.

Witnesses:

PAUL GOEPEL,
GEORGE W. JAEKEL.