(No Model.)

W. HINCHLIFFE.

WEFT FORK FOR LOOMS.

No. 513,928. Patented Jan. 30, 1894.

Fig. 1.

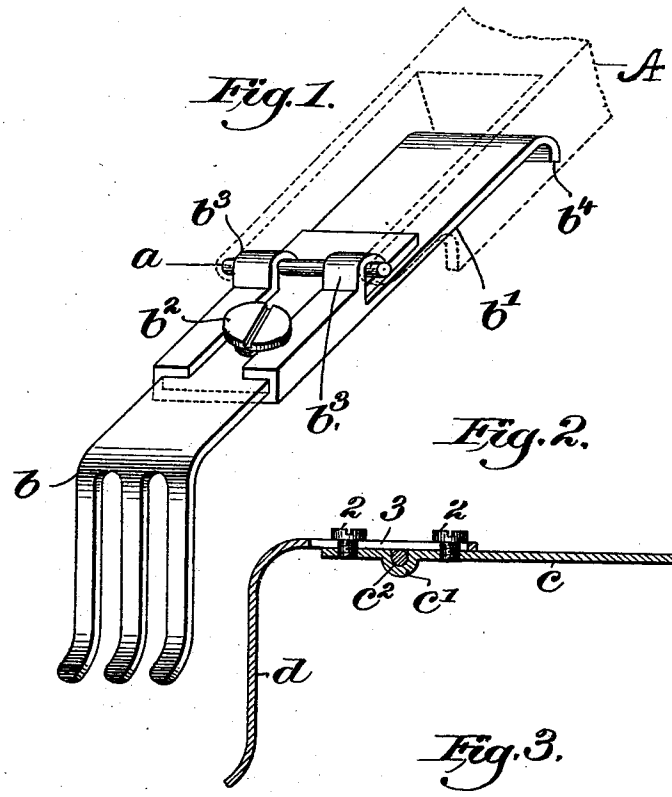


Fig. 2.

Fig. 3.

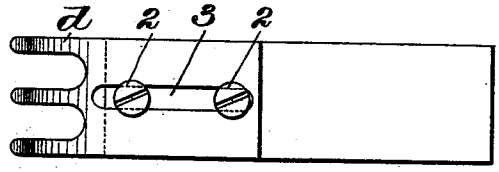
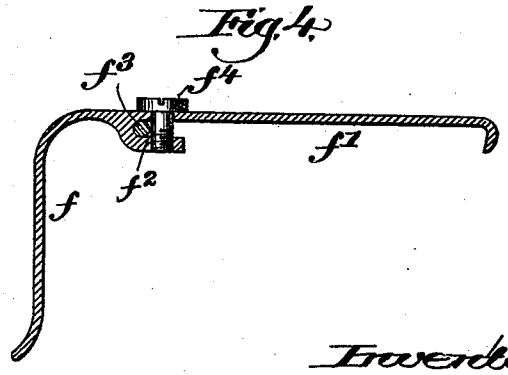


Fig. 4.



Witnesses.
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WILLIAM HINCHLIFFE, OF HUNTSVILLE, ALABAMA, ASSIGNOR OF ONE-HALF TO GEORGE DRAPER & SONS, OF HOPEDALE, MASSACHUSETTS.

WEFT-FORK FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 513,928, dated January 30, 1894.

Application filed May 29, 1893. Serial No. 475,890. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HINCHLIFFE, of Huntsville, county of Madison, State of Alabama, have invented an Improvement in Weft-Forks for Looms, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

This invention has for its object to provide a weft fork having detachable tines; and also to enable the weft-fork both body and tines, to be removable from the usual rocking pin of the weft-fork slide without removing said pin.

Figure 1, in perspective, shows a weft-fork embodying my invention, together with part of the slide in which it in practice will be mounted to tip, the said slide being represented in dotted lines and as transparent; Figs. 2 and 3, a section and plan view of a modified form of fork; Fig. 4, yet another modification.

In the drawings, A represents a slide-bar such as commonly employed to sustain the rocking pin or pivot *a* of the weft-fork.

I have shown my improved weft-fork *b* as made from sheet metal, the metal being brought into shape preferably by dies, the forks having any desired number of prongs to meet the weft. The weft-fork is composed of a pronged front end and a tail-piece, and in Fig. 1, the front and tail-pieces are made of separate pieces, the tail-piece b' being represented as a box-like plate, into which the shank of the prong piece is inserted as in said Fig. 1 where it is held by a suitable set screw b^2. The tail-piece has open loops or eyes b^3 to embrace the rocking pin *a* and to permit the fork and tail-piece to be removed from the rocking pin when desired. The free end of the tail-piece has a lip b^4 adapted to be engaged by the usual weft-hammer, not shown.

In the modification Figs. 2 and 3, the box-like end of the tail-piece is omitted, but the tail-piece *c* has an open loop at c' for the reception of the rocking pin c^2, and the fork *d* is connected to the tail-piece by suitable screws 2, 2, the shank of the fork being preferably slotted as at 3 to permit the fork to be adjusted on the tail-piece with reference to the rocking pin c^2, to thus enable the fork to be nicely balanced.

In the modification Fig. 4, the fork *f* and tail-piece f' are all in one piece, but provided with the open eye f^2 to embrace the rocking pin f^3, a screw f^4 being added to cross the rocking pin and keep the fork and tail-piece in place. The rocking pins *a*, c^2 and f^3 are supposed to be all alike, and in practice they will all be supported in the slide, and in all the forms of my invention the fork and also the tail-piece may be removed from the rocking pin without disturbing the latter.

One important feature of my invention lies in the fact that the fork may be readily removed when desired without disturbing the rocking pin.

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

1. The combination with a weft-fork slide-bar and its stationary rocking pin, of a tail-piece having an open eye to partially embrace the said pin whereby the tail-piece may be removed from the slide without disturbing the said pin, substantially as described.

2. A tail-piece having an open eye to partially embrace a rocker pin, and a sheet metal fork made adjustable on said tail-piece, combined with a weft fork slide bar having a stationary rocking pin, to operate, substantially as described.

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

WILLIAM HINCHLIFFE.

Witnesses:
J. W. MATTHEWS,
S. N. LEVY.