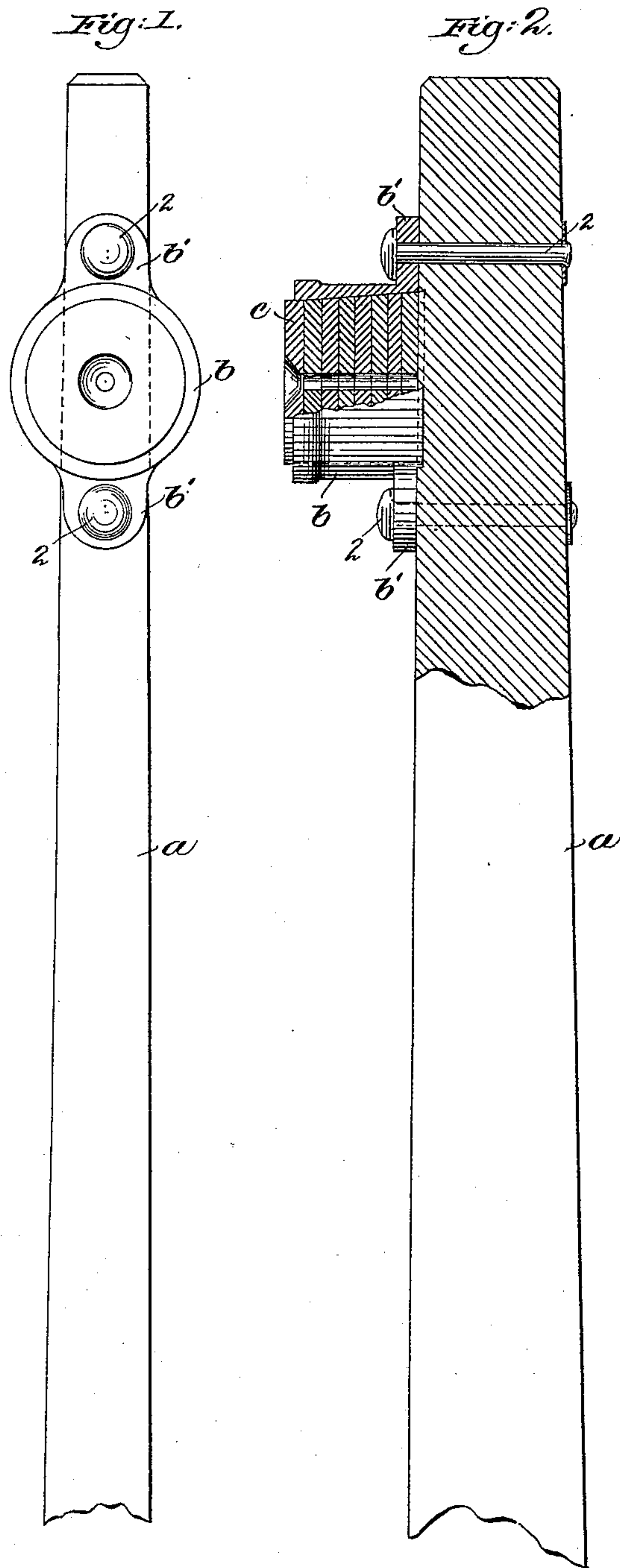


(No Model.)

E. H. ARCHIBALD.
LOOM PICKER.

No. 406,416.

Patented July 9, 1889.



Witnesses.
Fred. S. Greenleaf
Frank L. Emery

Inventor.
Everett H. Archibald
by Henry Stearns
Attys

UNITED STATES PATENT OFFICE.

EVERETT H. ARCHIBALD, OF LAWRENCE, MASSACHUSETTS.

LOOM-PICKER.

SPECIFICATION forming part of Letters Patent No. 406,416, dated July 9, 1889.

Application filed March 26, 1889. Serial No. 304,847. (No model.)

To all whom it may concern:

Be it known that I, EVERETT H. ARCHIBALD, of Lawrence, county of Essex, State of Massachusetts, have invented an Improvement in Loom-Pickers, 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 loom-picker which shall possess, among other advantages, superior strength and durability.

Loom-pickers now in most common use and attached to picker-sticks are made of leather, and are attached to the said picker-sticks by straps, and the said pickers being without lateral support it frequently happens that the picker is broken out at one side by the repeated blows of the shuttle-point, the latter gradually cutting a hole in the picker. In attempts which have been made to remedy these defects a picker has been held in a metallic ring-like support, the support preventing the outward bulging of the picker at one or its other edge; but leather pickers so held have not been provided with a centering-recess for the point or beak of the shuttle, and consequently the material of the picker by repeated blows against the shuttle has an irregular hole or cavity worn into it, the said cavity gradually increasing in size and assuming a ragged uneven shape, the cavity elongating until finally by the unevenness of the cavity the shuttle as the picker strikes its beak or point is not struck squarely, but is struck in such manner as to twist or turn the shuttle out of its proper straight course, which results in loss of stock and frequently in injury to the person; also, a metallic support or strap has been provided for the picker, which is open at two sides and at the face, and the picker itself has been provided with a centering or guiding eye, which special form of picker is objectionable because the picker itself and the strap are made so narrow that it has but little more strength than the usual or well-known form, while the weight of the metallic strap or support is so great and unbalanced as to render the same impracticable.

In accordance with this invention the metallic support is formed with ears or flanges, by which it may be secured to the picker-stick, and with a circular socket to receive several circular pieces of leather or other suitable material constituting the picker.

The picker-stick itself will constitute the bottom or back of the support.

Figure 1 shows a face view of a loom-picker embodying this invention and a portion of an ordinary picker-stick to which it is attached; Fig. 2, a side elevation and partial section of the loom-picker shown in Fig. 1.

The picker-stick *a* is of usual construction. A circular metallic picker-support *b* has ears or flanges *b'*, through which bolts 2 pass or over which straps may be used for securely fastening the metallic support to the face of the picker-stick. The metallic support is formed with a circular socket or opening to receive several circular pieces *c* of leather or equivalent material constituting the picker.

The opening in the picker-support to receive the pieces *c* will preferably be tapered internally or be made of larger diameter next the picker-stick than at that end of the support where the beak or point of the shuttle meets a piece *c*.

The metallic support will be so fastened to the picker-stick by two bolts or screws that by removing one bolt the support may be swung to one side to allow the worn leather or other material to be removed or new material put in. The taper also will keep the leather core from coming out at the front side, while the face of the picker-stick will not allow it to pass the other way.

The leather pieces *c* are formed with a hole through them at the center to serve as a centering and guiding hole or eye for the beak or point of the shuttle.

By this invention it will be seen that the direction of the wear upon the picker is properly guided, that a metallic lateral support is provided entirely inclosing the picker to prevent tearing or bursting at one side, and also a rigid support at the bottom or back of the picker.

I claim—

The loom-picker herein described, it con-

sisting of the metallic support *b*, formed with
a circular socket within it and having exter-
nal ears *b'*, and the circular pieces *c*, placed
in the circular socket in the support and hav-
5 ing the central guiding hole or eye there-
through for the point or beak of the shuttle,
all as and for the purposes set forth.

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

EVERETT H. ARCHIBALD.

Witnesses:

BERNICE J. NOYES,
FREDERICK L. EMERY.