

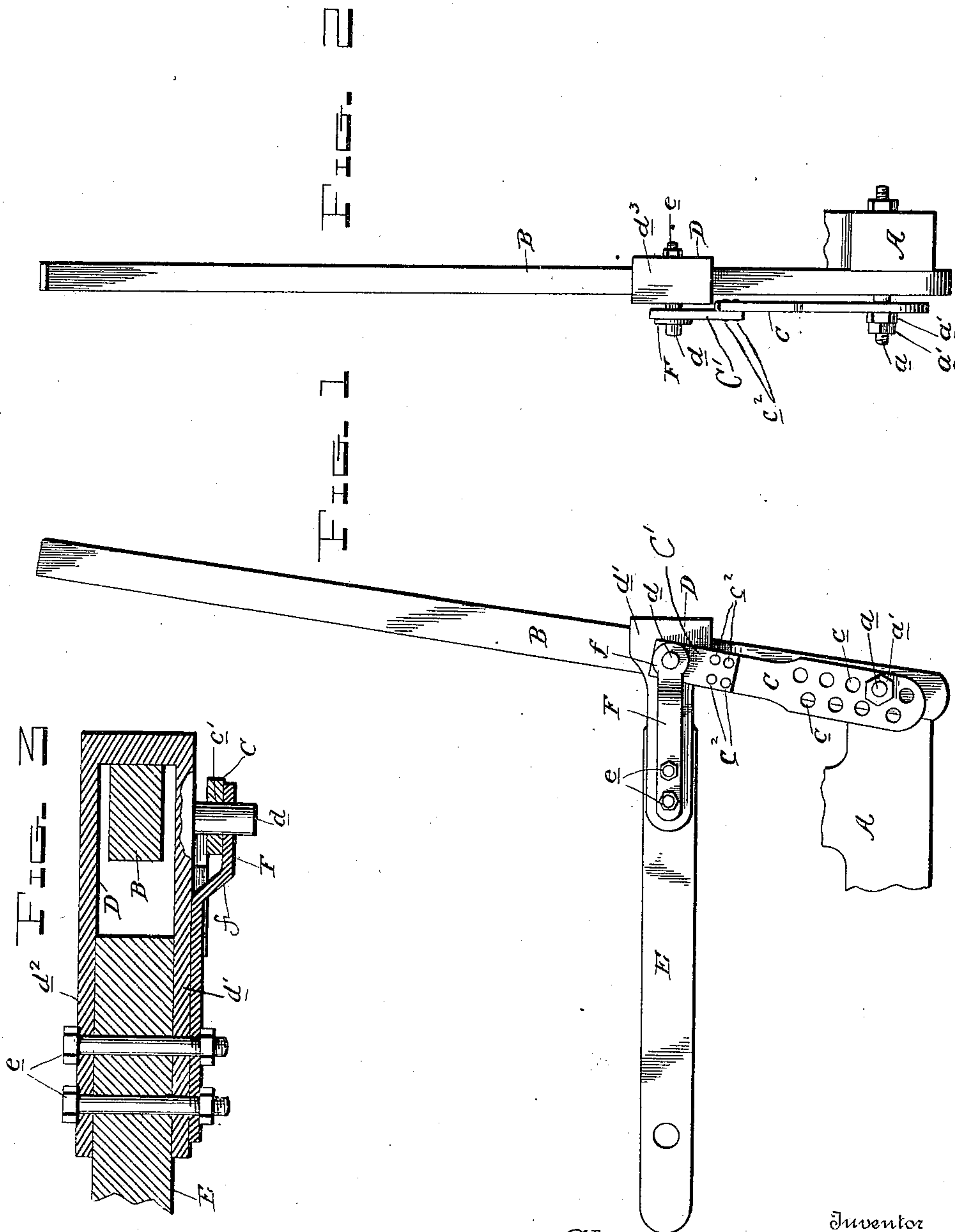
No. 648,136.

Patented Apr. 24, 1900.

C. F. THOMPSON.
SWEEP STRAP FOR LOOMS.

(Application filed Jan. 28, 1899.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES F. THOMPSON, OF OSWEGO FALLS, NEW YORK.

SWEEP-STRAP FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 648,136, dated April 24, 1900.

Application filed January 28, 1899. Serial No. 703,723. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. THOMPSON, a citizen of the United States, residing at Oswego Falls, in the county of Oswego and State of New York, have invented certain new and useful Improvements in Sweep-Straps for Looms; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in means for operating the picker staffs or sticks of looms; and the object is to simplify the construction and increase the efficiency and durability of the picker-stick and sweep-strap connections.

To this end the invention consists in the construction, combination, and arrangement of the several parts of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the device.

Figure 1 is a side elevation of my improved sweep-strap or picker-stick connection. Fig. 2 is an end elevation of the same. Fig. 3 is a horizontal section through the sweep-strap.

A denotes a stationary bracket on the loom, (not shown,) in which is secured a stud-bolt a , on which is fulcrumed the picker-stick B.

C denotes a rawhide support, the lower end of which is enlarged and formed with two parallel rows of holes $c c$, alternately arranged and adapted to receive the end of the bolt a , on which said support is pivoted by means of the jam-nuts $a' a'$. The upper end C' of this support is provided with a transverse hole c , which encompasses the lateral horizontal stud-pin d , affixed to the contiguous parallel arm d' of the sweep-strap D, the opposite parallel arm d^2 of which extends on the opposite side of the picker-stick.

It will be noted that the upper end C' of the support C is formed of a separate piece of rawhide set to one side, so as to form an offset, and secured to the body portion C by the rivets $C^2 C^2$.

E represents the sweep-stick, secured between the parallel sides $d' d^2$ of the sweep-strap by the transverse bolts $e e$ and in line with said

picker-stick, which latter has a limited play in the sweep-strap between the outer end of the sweep-stick and the cross-bar d^3 , integrally connecting the outer ends of the sweep-strap arms $d' d^2$.

F denotes a plate, the inner end of which is secured to the arm d' by the bolts $e e$, and its body portion is formed with an offset f to permit it to extend on the outside of the support C and encompass the stud-pin d to retain the support in place on said stud-pin.

From this construction it will be seen that the sweep stick and strap are supported by the support C, having no direct connection with the picker-stick, and the position of the sweep-strap with reference to the fulcrum-point of the picker-stick may be increased or diminished to secure the best results by the proper adjustment of the lower end of the support on the fulcrum-bolt a .

In practice I prefer to make the entire sweep-strap D and its integral stud-pin d of aluminium or an aluminium alloy on account of its light weight and general adaptability for this purpose.

By making the rawhide support in two pieces I am enabled to get the best possible form of bearing for the coacting parts with the minimum amount of friction and no possibility of binding. I am aware that a support for this purpose has been heretofore made of wood and also of metal; but the life of the first is very short on account of its fragile nature and of the second on account of the great amount of wear, which soon renders it worthless, whereas by making it of rawhide it is practically everlasting on account of its great toughness and durability, making it an ideal support for this particular purpose, and for this reason I limit myself to the use of a rawhide support.

In the accompanying drawings I have shown my invention in the best form now known to me; but it is evident that minor changes in the details may be made within the skill of a good mechanic without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In a sweep-strap for looms, the combina-

tion of the sweep-stick E, the metal sweep-
strap D; the plate F having its body portion
provided with an offset *f*, of the rawhide sup-
port comprising the body portion C, having
5 its lower end enlarged and formed with two
parallel rows of alternating holes *c, c*; the
bolt *a* and its securing-nuts forming the pivot
for said support; and the rawhide extension
C' riveted to the outer face of the body por-
10 tion C at its upper end and engaging the stud

d at a point between the sweep-strap D and
the offset plate F, substantially as specified.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

CHAS. F. THOMPSON.

Witnesses:

ALBERT S. BROWN,
F. M. PRESTON.