(No Model.) 2 Sheets—Sheet 1.

E. HAMILTON.

BUFFER FOR PICKER STAFFS OF LOOMS.

No. 482,977. Patented Sept. 20, 1892.

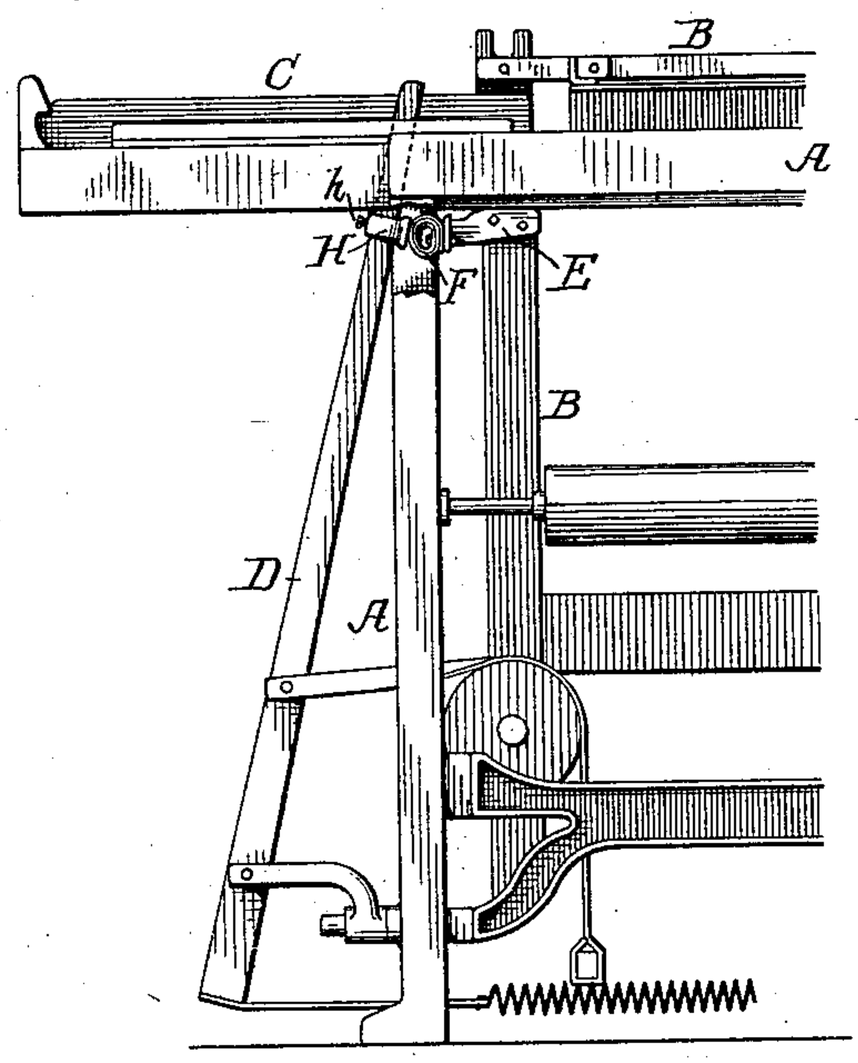


FIG. 1.

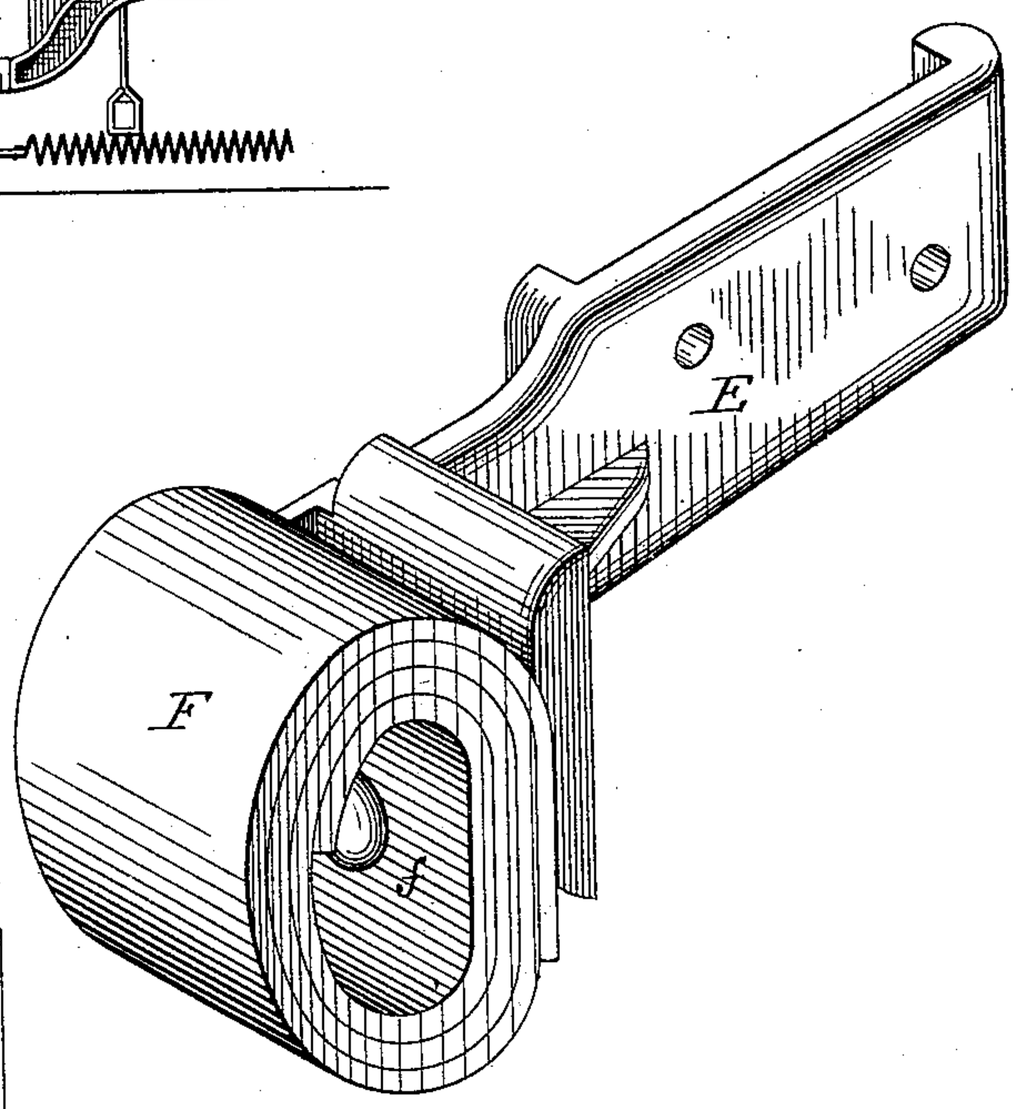
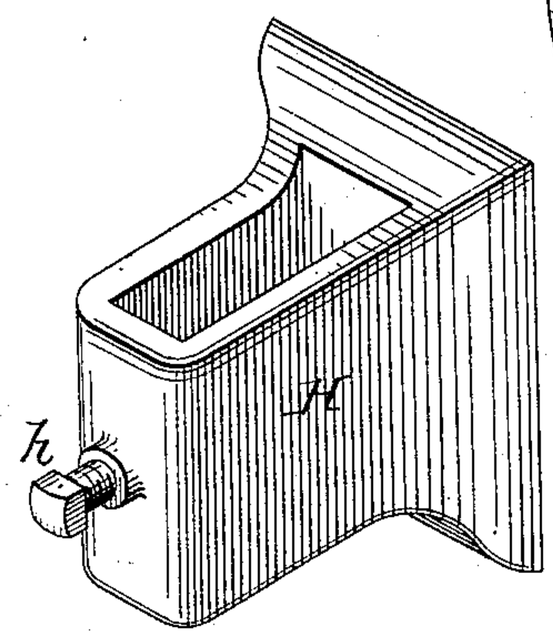


FIG. 2.



Witnesses:
A. V. Groupe.
Murray C. Boyer.

Inventor:
Edwin Hamilton
by his Attorneys
Howson & Howson

(No Model.) 2 Sheets—Sheet 2.

E. HAMILTON.

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No. 482,977. Patented Sept. 20, 1892.

FIG. 3.

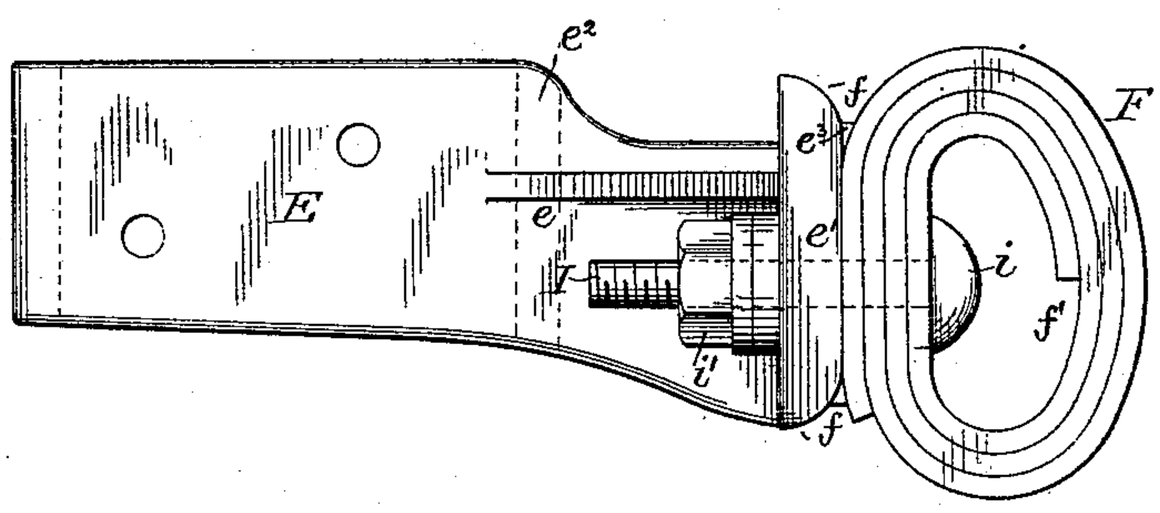
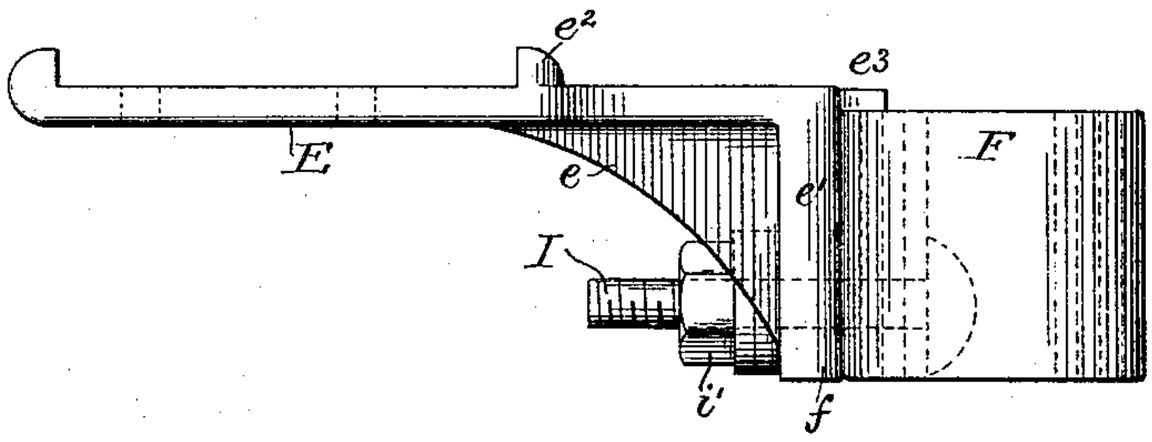


FIG. 4.



Witnesses:
R. Schleicher
G. Q. Goodwin

Inventor:
Edwin Hamilton
by his Attorneys
Howson & Howson

UNITED STATES PATENT OFFICE.

EDWIN HAMILTON, OF PHILADELPHIA, PENNSYLVANIA.

BUFFER FOR PICKER-STAFFS OF LOOMS.

SPECIFICATION forming part of Letters Patent No. 482,977, dated September 20, 1892.

Application filed January 29, 1891. Serial No. 379,586. (No model.)

To all whom it may concern:

Be it known that I, EDWIN HAMILTON, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Buffers for Picker-Staffs of Looms, of which the following is a specification.

The object of my invention is to construct an improved buffer that can be readily applied to looms to receive the shock of the picker-staff as it is drawn forward to throw the shuttle across the loom.

The main object of my invention is to make a simple device which can be readily attached to the loom.

In the accompanying drawings, Figure 1 is a view of sufficient of a loom to illustrate my invention. Fig. 2 is a perspective view of the buffer and a shoe. Fig. 3 is a side view of my improved buffer, and Fig. 4 is a plan view.

Usually in looms of the class to which my invention relates a double leather strap has been used; but this strap wears away very quickly and often breaks, and injuries to the loom or the fabric in the loom is a result.

Referring to the drawings, A is the frame of the loom, B the lathe, and D the picker-staff, operated in any suitable manner. Secured to the frame of the lathe is a bracket E, which has an extension *e*, from which projects the seat *e'*. On the bracket is a flange e^2, which rests against the edge of the lathe B, preventing the picker from forcing the bracket out of position. The seat *e'* has rounded ends *f f*, which prevent the seat from cutting the buffer proper.

F is the buffer, formed of a strip of leather coiled to shape as shown, and this buffer is secured to the seat *e* of the bracket E by a bolt I, the head *i* of which is within the cavity *f'* of the coil F. Coiling the leather with an open center *f'* allows the bolt to be inserted in the manner shown and also allows for the ready yielding of the buffer when the picker-staff strikes it.

It will be noticed on referring to the drawings that the bolt I passes through the leather and through the seat *e'* near one side. This enables me to readily pass the bolt through the openings in the leather. The bolt is first passed through the hole in the first lap of the leather and then one coil of the leather is made, and by twisting the leather the second hole is brought into line with the bolt, and then another coil is made and the third hole brought into line in the same manner. The bolt is then passed through the opening in the seat *e'* and held thereto by a nut *i'*. By this arrangement I am enabled to make a buffer with a number of coils, which will be neat in appearance and effectual in its work.

In some instances I may provide the bracket E with a guard e^3 to prevent the buffer from twisting on the bolt; but this is not absolutely necessary.

I in some instances secure to the picker-staff at a point where it comes in contact with the buffer a shoe H, made in the form of a sleeve, which incases the staff and is secured thereto by a bolt *h* or other fastening, the shoe having a wide striking-face *h'*.

The material I prefer to use for the buffer is simply worn-out belting, which has heretofore been discarded, and I cut this leather to the proper length and punch the necessary holes therein and mount it as described above, and I find that it will last for a considerable length of time—in fact, far beyond any buffer now in common use that I am aware of.

When the exposed side of the buffer becomes worn, it can be turned and new bolt-holes cut therein. My improved buffer can be readily attached to any of the ordinary looms, and the waste leather of the mill can be readily employed, and by mounting the leather upon the bracket in the manner described and shown I can coil the leather a number of times without slitting it to place the bolt in position.

I claim as my invention—

The combination of the bracket E, adapted to be secured to the lathe of the loom, having a flange e^2 resting against the lathe, an extension *e*, and a seat *e'*, projecting from said extension, said seat having rounded corners *f f*, a buffer F of a coil of leather, said buffer having an open center, with a bolt passing through the coil and through the seat, and a nut at the back of the seat and adapted to the bolt, substantially as described.

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

EDWIN HAMILTON.

Witnesses:

HENRY HOWSON,

H. F. REARDON.