

S. Boorn.
Loom-Picker.

N^o 772.
 .31,776.

Patented Mar. 26. 1861.

Fig. 3.

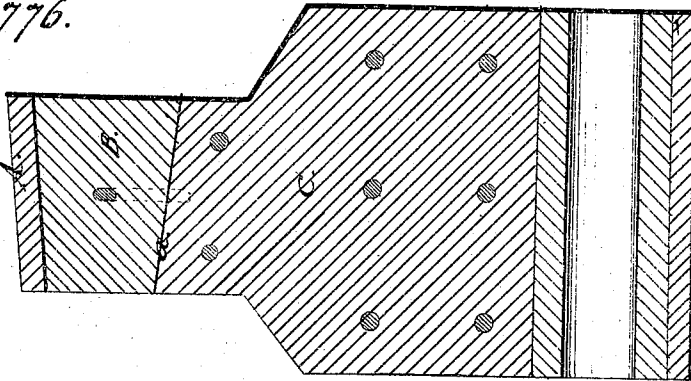


Fig. 2.

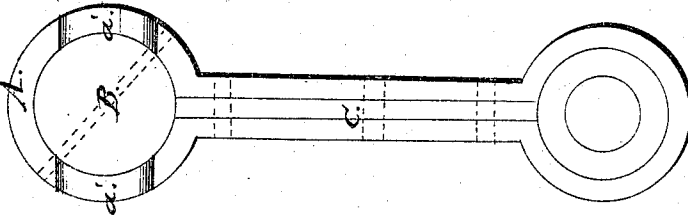
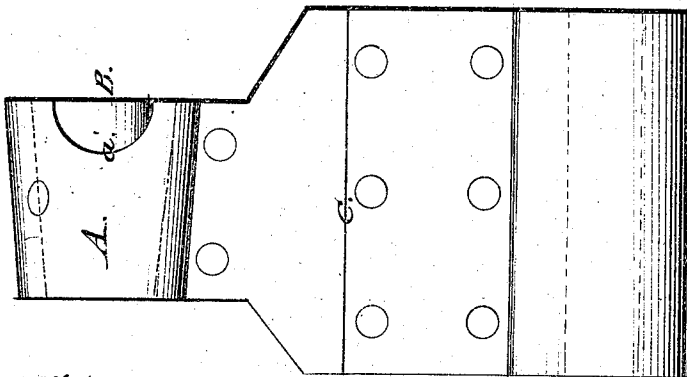


Fig. 1.



Witnesses:

F. P. Hall
W. Lewis

Inventor:

Samuel Boorn.

UNITED STATES PATENT OFFICE.

SAMUEL BOORN, OF LOWELL, MASSACHUSETTS.

PICKER FOR LOOMS.

Specification of Letters Patent No. 31,776, dated March 26, 1861.

To all whom it may concern:

Be it known that I, SAMUEL BOORN, of Lowell, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Movable Shuttle-Box Rawhide Pickers for Looms; and I do hereby declare the same to be fully described in the following specification and illustrated in the accompanying drawings, of which—
10 Figure 1, is a side view; Fig. 2, a front edge view, and Fig. 3, a longitudinal section of a picker provided with my invention or improvement.

My improvement has reference to the
15 socket head which contains the horn cushion or bushing against which the point or nose of the shuttle acts while the shuttle is being ejected from one of the shuttle boxes. This socket head and its cushion or bushing are
20 represented in the drawings at A, and B.

The socket *a*, for reception of the cushion B, is made tapering as shown in Fig. 3.

In constructing the socket head, I form it with two recesses or notches *a'*, *a'*, which
25 I arrange as shown in Figs. 1, and 2, viz., on opposite sides of the larger base of the conical cushion B, and at right angles or thereabout with the part C, of the picker. By
30 so notching the said part A, we not only afford the horn cushion B, a chance to expand laterally, without powdering under the blows of the shuttle, but enable the principal part of the spreading of the cushion to take

place toward and in the notches. The notches, also facilitate the removal of the
35 surplus of the cushion without injury to the socket head, as they enable such surfaces to be removed by means of a saw.

After a horn cushion has been in use some time, it becomes indented by the conical
40 point of the shuttle. If held closely, on all sides of its larger base or that end which encounters the shuttle, such cushion will soon become powder or be reduced somewhat
45 as a piece of stone or other hard substance is reduced by the point of a drill. Owing to the picker, when in use being made to operate with a movable series of shuttle
50 boxes, its cushion will shortly become worn transversely or in a direction at right angles with the part C. The tendency of the
55 picker cushion to spread from its center is more in such direction than any other. The utility of the recesses or notches *a'*, *a'*, in preserving the picker cushion from destruction, and in other respects, has been found
in practice to be very great.

I claim therefore—

My improved, movable shuttle box picker, as made with its head A, notched with re-
60 spect to its shuttle cushion B, substantially in manner and for the purpose as described.

SAMUEL BOORN.

Witnesses:

GEORGE GARDNER,
NOAH F. GATES.