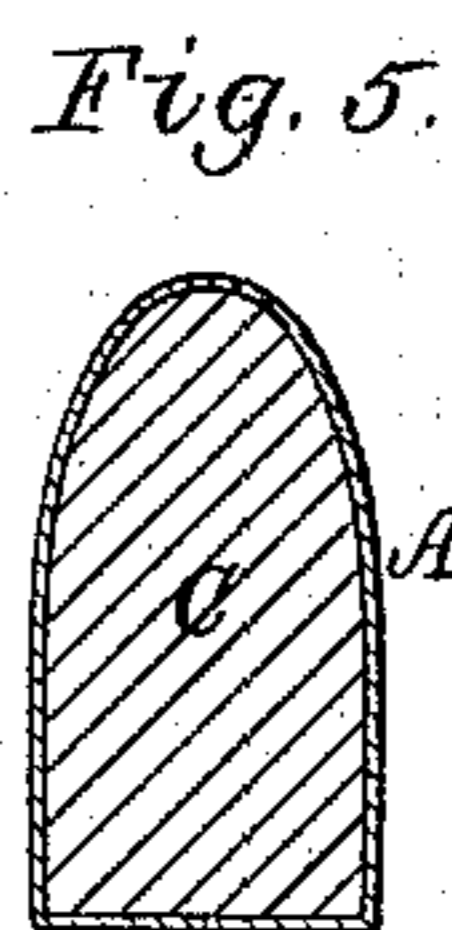
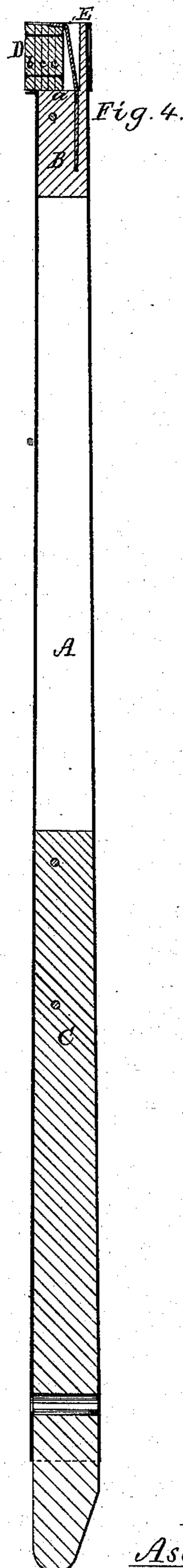
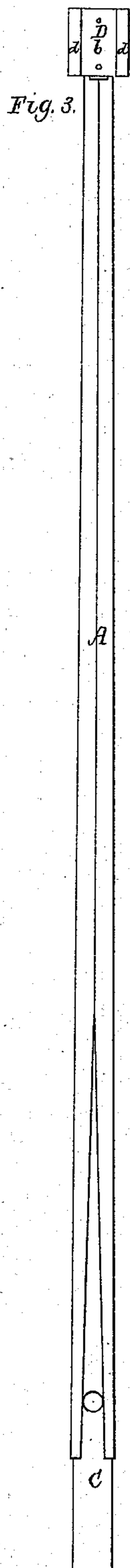
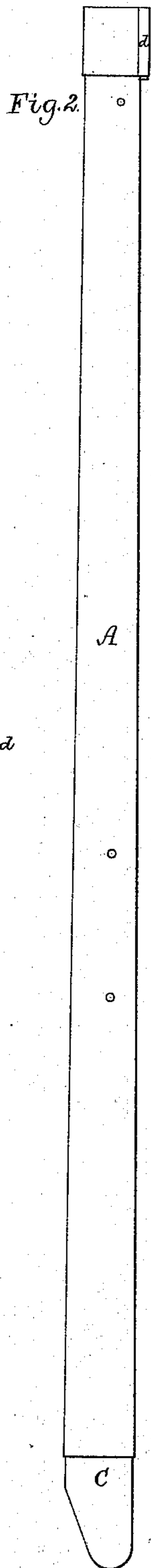
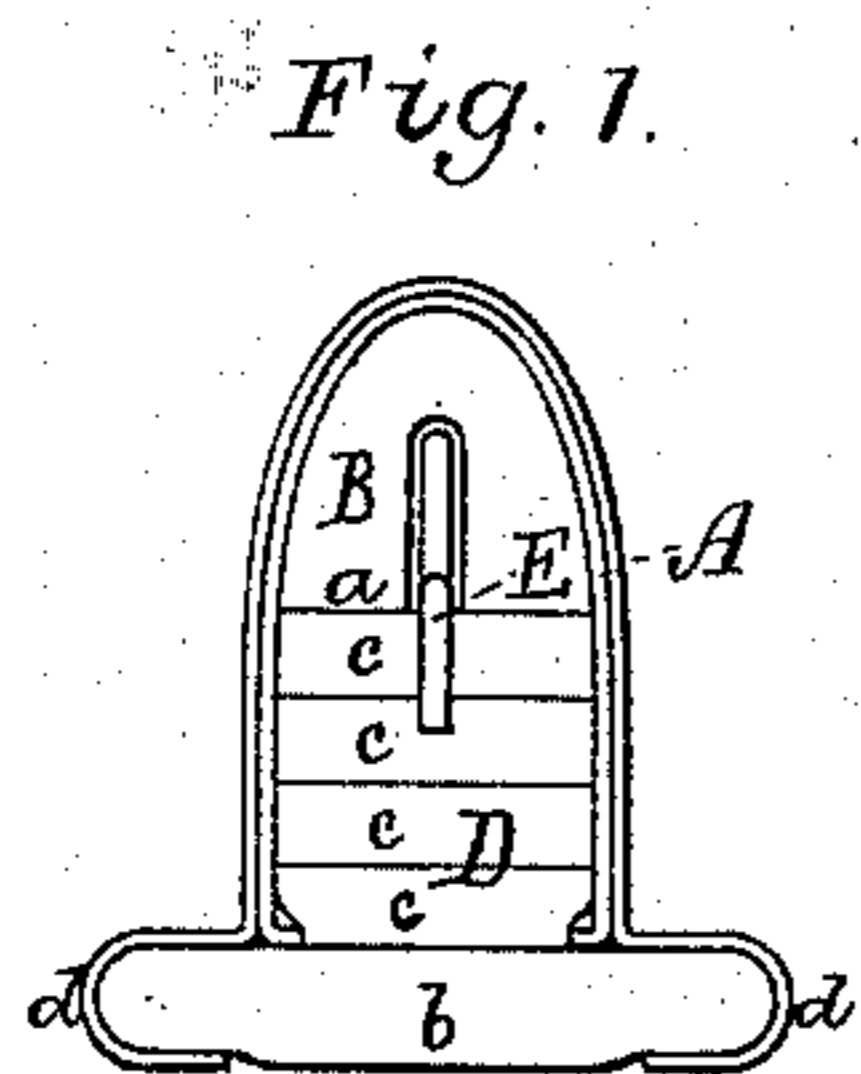


(No Model.)

A. M. WADE.  
PICKER STAFF FOR LOOMS.

No. 249,276.

Patented Nov. 8, 1881.



Witness

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*by R. H. Eddy, atty*

# UNITED STATES PATENT OFFICE.

ASEL M. WADE, OF LAWRENCE, MASSACHUSETTS.

## PICKER-STAFF FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 249,276, dated November 8, 1881.

Application filed September 15, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, ASEL M. WADE, of Lawrence, of the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Picker-Staffs for Looms; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, Fig. 3 a front view, Fig. 4 a vertical section, and Fig. 5 a transverse or horizontal section, of a picker-staff of my invention, the nature of which is defined by the claims herein-after set forth.

The staff, as hereinafter described, instead of being made of wood throughout its length, is a metallic tube of proper form in transverse section, and re-enforced with wood or other suitable material both in its upper and lower parts. It is also chambered at top to receive a picker. Furthermore, it has recessed jaws for holding the front lips or lift of the picker. It is also provided with a spring-catch to hold the picker in place. The object of making it of metal and re-enforcing it in the manner specified is to obviate sundry difficulties incident to the wooden staff, whose picker is liable to become splintered while in use and to have parts of it detached and thrown into the warps, to the detriment of the weaving.

In the drawings, A denotes the metallic tubular part of the staff, and B and C its re-enforces, of wood or other proper material. The re-enforce, at the lower part of the staff, is a core of wood, fitting such lower part to a sufficient altitude, and to extend from or below it, if necessary, as represented. The upper re-enforce is also a core of wood or other suitable material, and it may be recessed, as shown, to aid in forming in the upper part of the staff a chamber, *a*, for the reception of the picker D, composed of a series of lifts or sections, *b c c*, of leather or rawhide, cemented or suitably connected, the first or outer lift being wider than the others, and received within two recessed jaws, *d d*, extending from the upper

part of the staff, and formed in manner as represented, they being elastic, if preferable.

Within the upper re-enforce is the spring-catch E, which, after the picker may have been inserted in the staff, springs forward over such picker and holds it in place therein.

The upper re-enforce I usually extend down within the tubular portion A to or a little beyond the part thereof which strikes against the lay at the terminus of each throw of the staff, such being to prevent the metal from being bent in. The material used for forming the tubular part A may be sheet brass, iron, or steel, preference being given to the latter.

A picker-staff so made not only can be constructed as light if not lighter than a wooden staff of like size, but be much stronger, and, besides, be better in other respects.

The re-enforces are to be secured in the tubular part by rivets or other suitable means.

What I claim as my invention is as follows, viz:

1. As a new or improved manufacture, a picker-staff composed of a metallic tube, A, and of re-enforces B C, as described, arranged therein, substantially as set forth.

2. A picker-staff consisting of a metallic tube, A, and re-enforces B C, arranged in it (the said tube) as described, and having in its upper part a chamber or recess to receive and support a picker, as set forth.

3. A picker-staff composed of a metallic tube and re-enforces, as described, arranged in it as set forth, and having in its upper part a chamber for receiving the picker, and recessed jaws for receiving and supporting the front lift of such picker, all being substantially as set forth.

4. A picker-staff composed of a metallic tube and re-enforces, as described, and chambered in its upper part to receive a picker, and there provided with a spring-catch for holding the picker in place in the chamber, all being substantially as shown and described.

Witnesses:

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E. B. PRATT.