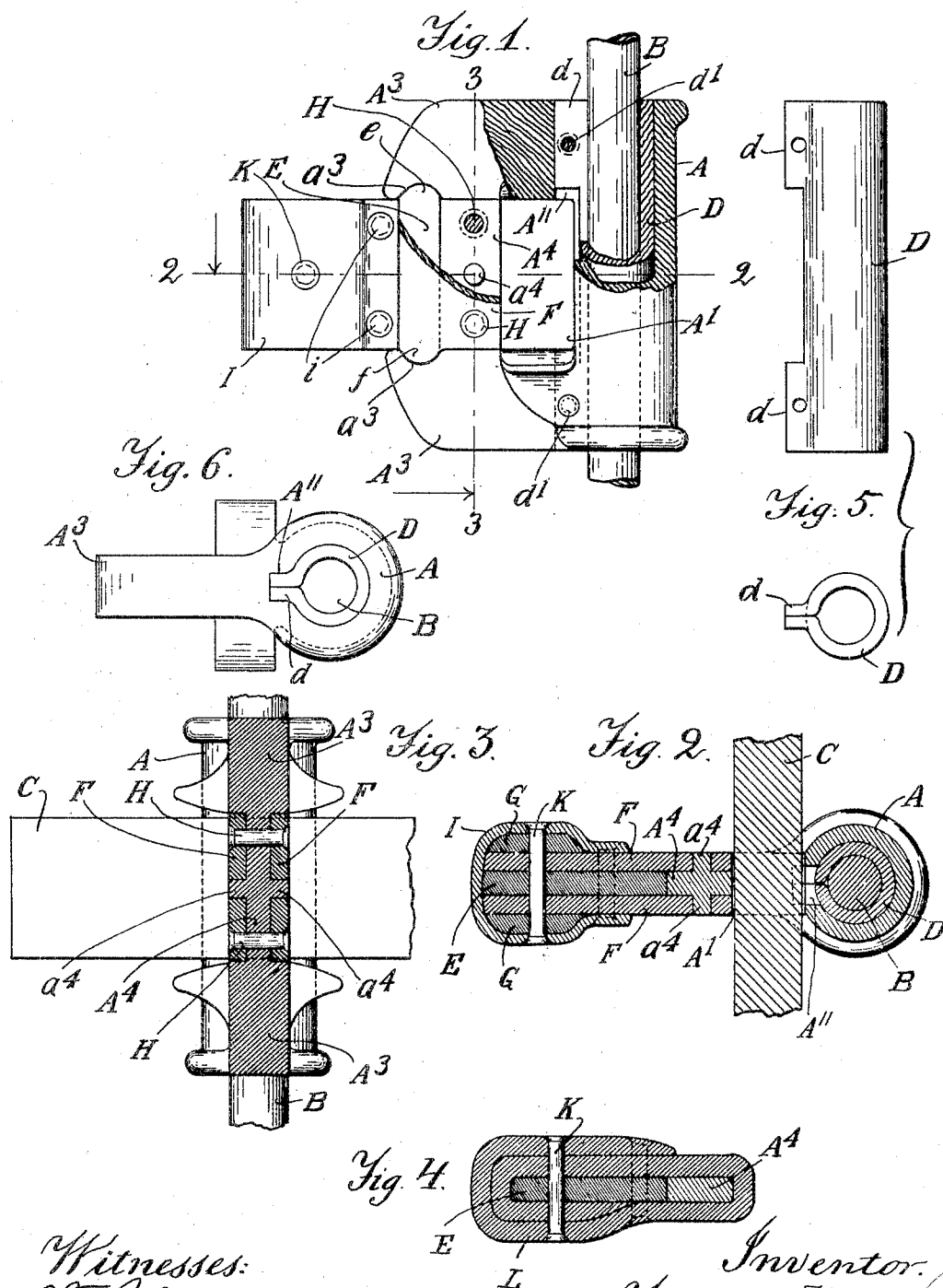


F. A. WARDWELL.
LOOM PICKER.

APPLICATION FILED MAY 28, 1904.

NO MODEL.



Witnesses:
A. T. Palmer
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by Wm. Andrew his atty

UNITED STATES PATENT OFFICE.

FRANK A. WARDWELL, OF METHUEN, MASSACHUSETTS.

LOOM-PICKER.

SPECIFICATION forming part of Letters Patent No. 776,972, dated December 6, 1904.

Application filed May 28, 1904. Serial No. 210,233. (No model.)

To all whom it may concern:

Be it known that I, FRANK A. WARDWELL, a citizen of the United States, and a resident of Methuen, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Loom-Pickers, of which the following is a specification.

This invention relates to improvements in loom-pickers, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 is a top plan of the improved loom-picker, partly shown in section. Fig. 2 is a section on the line 2 2 shown in Fig. 1. Fig. 3 is a section on the line 3 3 shown in Fig. 1. Fig. 4 is a sectional view showing a modification of the picker-head. Fig. 5 is a view showing in side and end elevation the bushing secured to the perforated frame portion; and Fig. 6 is an end view of Fig. 1, showing the picker-head removed.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The invention is preferably applicable to what are termed "drop-box pickers" for looms in which a plurality of shuttles are used; and it consists of a preferably metal frame A, which is guided on a horizontal spindle B, forming a part of a loom of the kind above mentioned. The said metal frame A is preferably provided with a perforation A', through which is inserted the usual picker-staff C, which is actuated in the usual manner for reciprocating the picker during the weaving operation.

Through the frame A is made a longitudinal perforation in which is inserted a sleeve D, preferably made of rawhide, metal, or other suitable material, which is guided on the horizontal spindle B. In practice I make on the ends of said sleeve D suitable lips or flanges d d, adapted to be received in end recesses A'' A'' in the frame A and secured to the latter by means of rivets d' d' or suitable fastening devices, as shown in the drawings.

Integral with the frame A are made side projections A³ A³, each of which has on its interior portion a cut-away recess a³, as shown in Fig. 1. The projections A³ A³ are con-

nected by a horizontal reduced web A⁴, which is made integral with the side projections A³ A³. To said projections A³ and web A⁴ is secured the laminated picker-head, preferably made of rawhide, leather, or suitable material. The said picker-head is composed of a middle rawhide or other suitable sheet E, having end projections e e fitting into the recesses a³ a³ on the interior of the frame projections A³ A³. On opposite side of the middle sheet E are located rawhide or other suitable sheets F F, having end projections f f fitting into the recesses a³ on the interior of the frame projections A³ A³, as shown. On the outside of each sheet F is located a filler G, preferably secured to the said sheet F in any suitable or desirable manner. The side sheets F F are riveted or otherwise secured in a suitable manner to the web A⁴, and I have for this purpose shown rivets H H going through perforations in said sheets F and web A⁴. For the purpose of still further securing the sheets F to the web A⁴, I make on the latter projections a⁴ a⁴, integral with said web, adapted to fit into corresponding perforations in the said sheets F. For the purpose of securing the laminated sheets together I inclose them with a sheet or cover I, preferably made of rawhide or other suitable material, the ends of which are secured to the laminated sheets E F F by means of rivets i i, as shown. For the purpose of securing the cover to the laminated sheets E F F and fillings G G they are firmly secured together by means of a rivet K shown in the drawings. By this arrangement I provide the frame with a compact, strong, and durable picker-head that can readily be made in parts and secured to the frame in a very substantial manner. If said picker-head should become defaced or broken, a new one can readily and at a low cost be attached to the frame. By lining the perforated head with a removable metal or rawhide sleeve or bushing D, as shown, the spindle B, as well as the perforation in the frame, is prevented from being worn or defaced. If the bushing should wear out, it can readily be replaced with another at small expense.

In Fig. 4 I have shown a modified form of the laminated picker-head, which consists of

a preferably rawhide strap L, wound around the web A⁴ and middle sheet E and secured to said parts by suitable rivets or other similar fastening devices.

5 What I wish to secure by Letters Patent and claim is—

1. A loom-picker, comprising a frame having a perforation to receive the picker-staff and means for guiding said frame on the spindle, horizontal projections on said frame and
10 a web made integral therewith and a laminated picker-head secured to said web and an inclosing band or cover secured to said head.

2. A loom-picker, comprising a frame, having a perforation to receive the picker-staff, side projections and an intermediate web, made integral with said frame, and a laminated picker-head, composed of sheets supported on said web and having end lips or
15 projections supported in recesses in the frame, and attached to the web, and inclosing band or cover secured to the laminated sheets of the picker-head.

3. A loom-picker, comprising a frame having
25 a perforation to receive the picker-staff,

side projections and a web made integral with said frame, in combination with a laminated picker-head secured to said web for the purpose set forth.

4. A loom-picker comprising a frame having a perforation to receive the picker-staff, side projections and a reduced web made integral with said frame, a laminated picker-head, trunnions or side projections on said web, and recesses on the interior of the frame
35 projections adapted to receive the laminated picker-head, and means for securing said picker-head to said projections and web, as specified.

5. A loom-picker, consisting of sheets having end projections, a frame having recesses adapted to receive the said projections, a web on the frame and means for securing said sheets to the frame as set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

FRANK A. WARDWELL.

Witnesses:

ALBAN ANDRÉN,

LAEIRETS N. MÖLLER.