

(No Model.)

W. R. THRASH.

LOOM PICKER.

No. 322,140.

Patented July 14, 1885.

Fig 1.

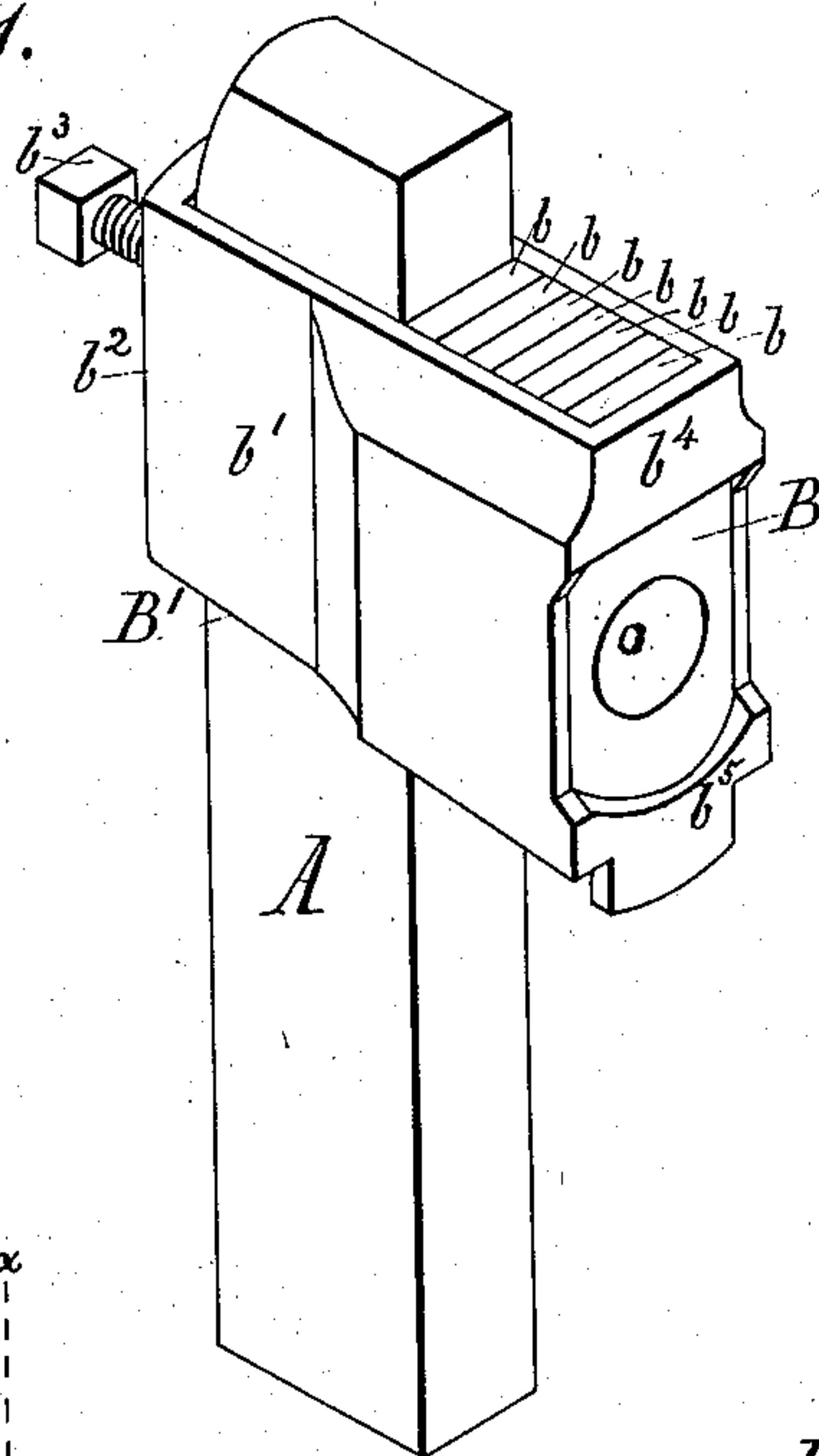


Fig 2.

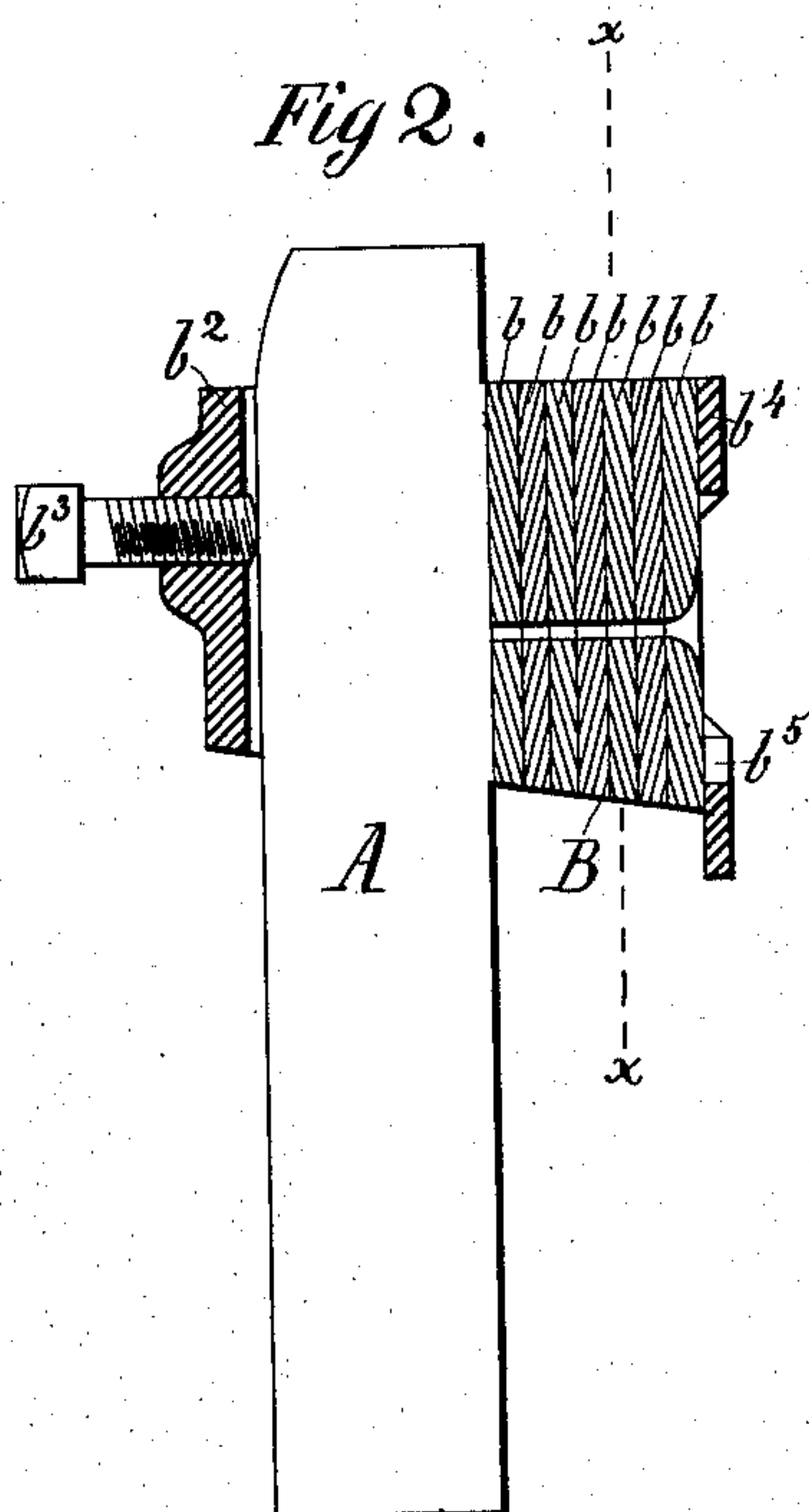


Fig 3.

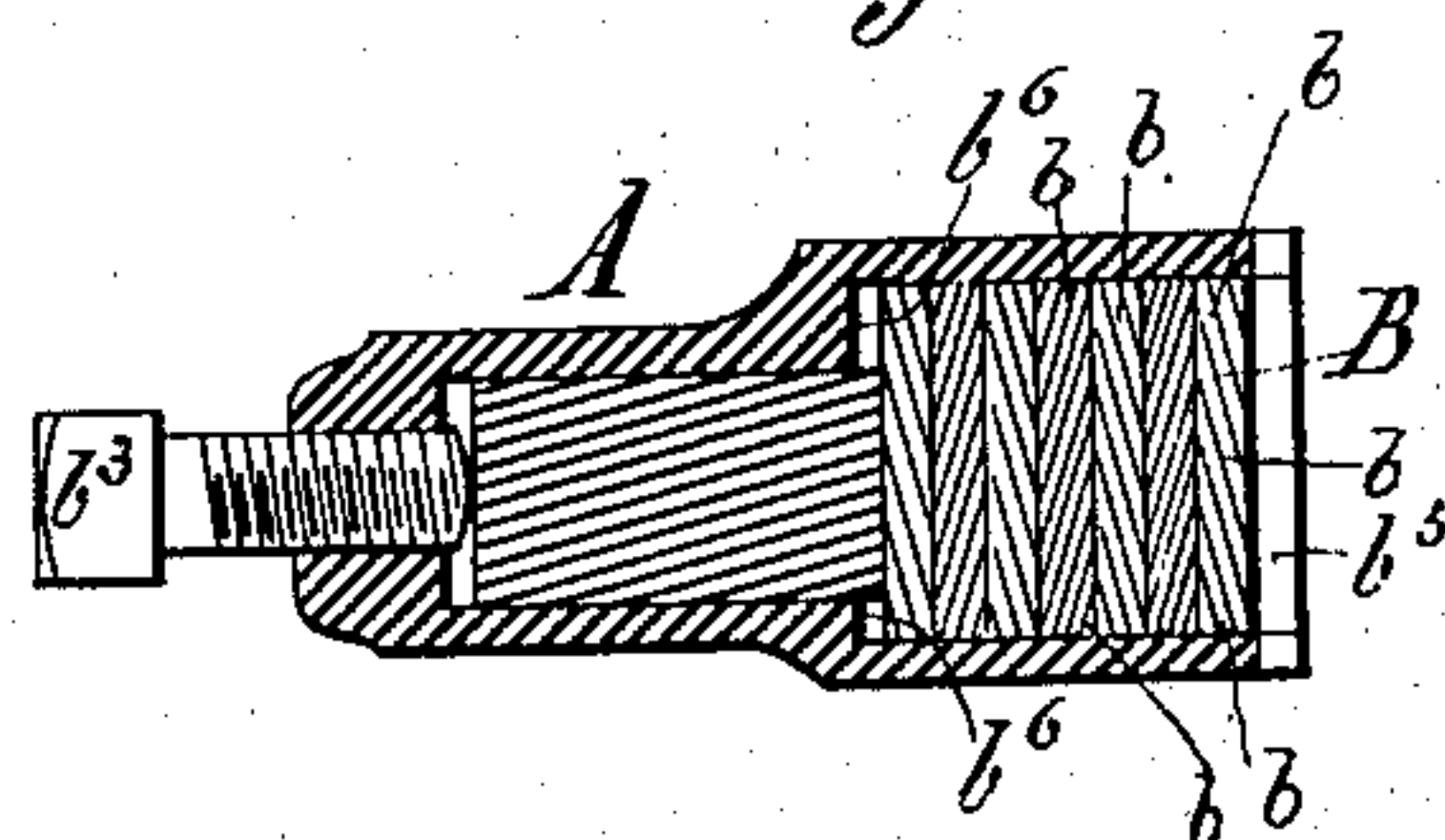
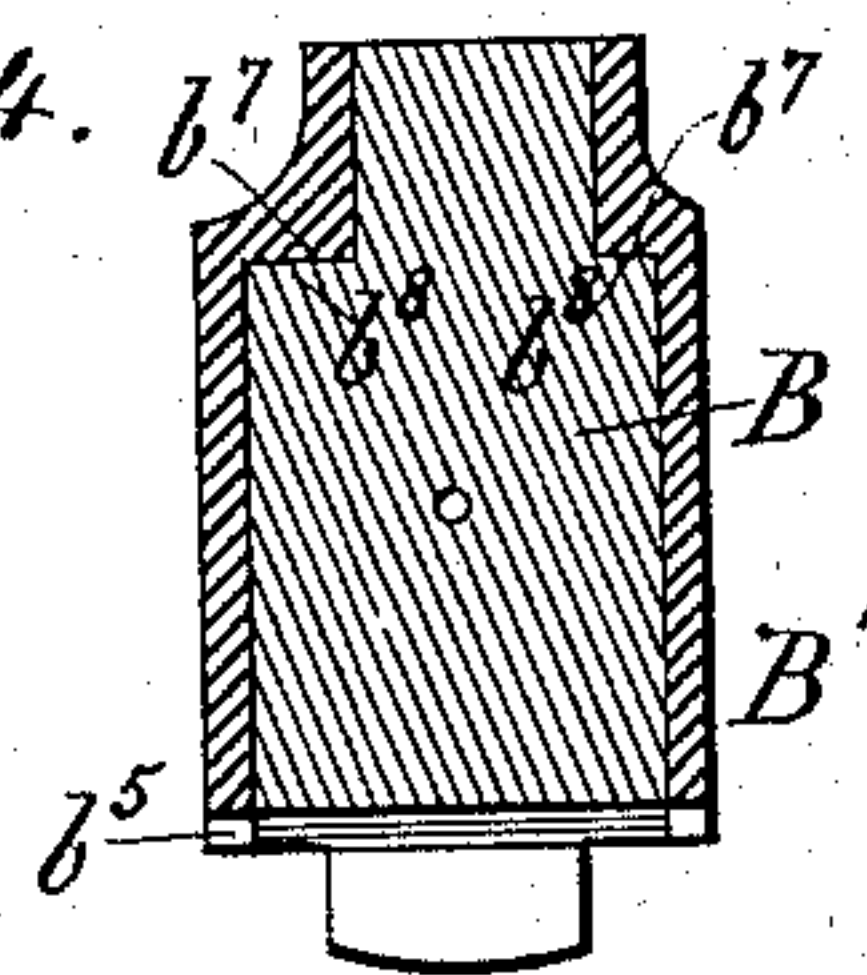


Fig 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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LOOM-PICKER.

SPECIFICATION forming part of Letters Patent No. 322,140, dated July 14, 1885.

Application filed May 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. THRASH, a citizen of the United States, residing at Selma, in the county of Dallas and State of Alabama, have invented a new and useful Improvement in Loom-Pickers, of which the following is a specification.

My invention relates to pickers for looms; and it consists of the picker hereinafter fully described, wherein the leather or rawhide filling or thrust material is very securely held in place and prevented from losing its proper form by being bulged out or torn asunder from constant and violent contact of the shuttle therewith.

In the accompanying drawings, Figure 1 is a perspective view of the upper end of a picker-staff having applied thereto a picker embodying my invention. Fig. 2 is a central longitudinal section of the same, the clamp-screw and picker-staff being in elevation. Fig. 3 is a horizontal transverse section in the line of the clamp-screw, the clamp-screw being in elevation; and Fig. 4 is a view showing a section of the picker on the line *xx* of Fig. 2.

A represents a picker-staff to the upper portion of which the picker B B' is fastened. This picker consists of a pad composed of a number of layers, *b*, of hard leather or rawhide and a metal housing, B'. This metal housing B' has solid parallel sides *b'*, a solid back, *b²*, with a set-screw, *b³*, and a front having an opening in it between two connecting-plates *b⁴ b⁵*, which are respectively at the upper and lower extremities of the housing B'. The upper and lower sides of the housing are open.

The rear portion of the passage through the housing is of the same width as the thickness of the picker-staff, and this inner width is continued in the rear portion of the housing down to its lower extremity, for the purpose of receiving and holding the picker-staff. The larger portion of the housing B', forming its front part, is of greater width than the picker-staff in order to receive the material forming the striking-portion of the picker, this portion of the housing B' being provided with inner rear vertical shoulders,

b⁶, and inner upper shoulders, *b⁷*. The upper part of this front portion of the housing is reduced to the width of the picker-staff by means of the two horizontal shoulders *b⁷*, and the layers forming the striking portion of the picker are formed with shoulders *b⁸*, and shaped to fit the passage formed in said front portion of the housing, and to bear against the shoulders *b⁶* and *b⁷*. By this construction, in conjunction with the picker-staff, the united layers of leather or other material are prevented from being moved either upward or backward by the thrusts of the end of the shuttle.

When the picker-staff and leather pad B are properly inserted into the housing B', the set-screw *b³* is set up for the purpose of clamping them together. By this operation of the set-screw the picker-staff is forced against the strips of leather *b*, and the latter are forced against the front plates, *b⁴ b⁵*, and thus held firmly in place. The side walls, *b'*, prevent the leather from being spread sidewise or torn or crushed so as to divide lengthwise, while the shoulders *b⁶ b⁷* prevent the leather from spreading and being torn or crushed so as to burst crosswise. With my invention an improved picker, which cannot readily have its form changed or be worn out rapidly, is produced at slight expense, it being practicable to cast the housing of the form described in one piece and to cut the leathers in the form shown by a die.

What I claim as my invention is—

1. The combination of the picker material B, having the shoulders *b⁸*, with the housing B', open at top and bottom, and having closed side walls, partly open front wall, a perforated rear wall, and vertical shoulders *b⁶*, and horizontal shoulders *b⁷*, and the clamp-screw *b³*, substantially as and for the purpose described.

2. The combination of the picker material B, having shoulders *b⁸*, with the clamping-housing B', having closed side walls and shoulders *b⁶ b⁷*, substantially as described.

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Witnesses:

H. A. HAROLSON,

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