

(No Model.)

2 Sheets—Sheet 1.

L. TEWELES & T. A. ROBINSON.
PICKER FOR LOOMS.

No. 479,903.

Patented Aug. 2, 1892.

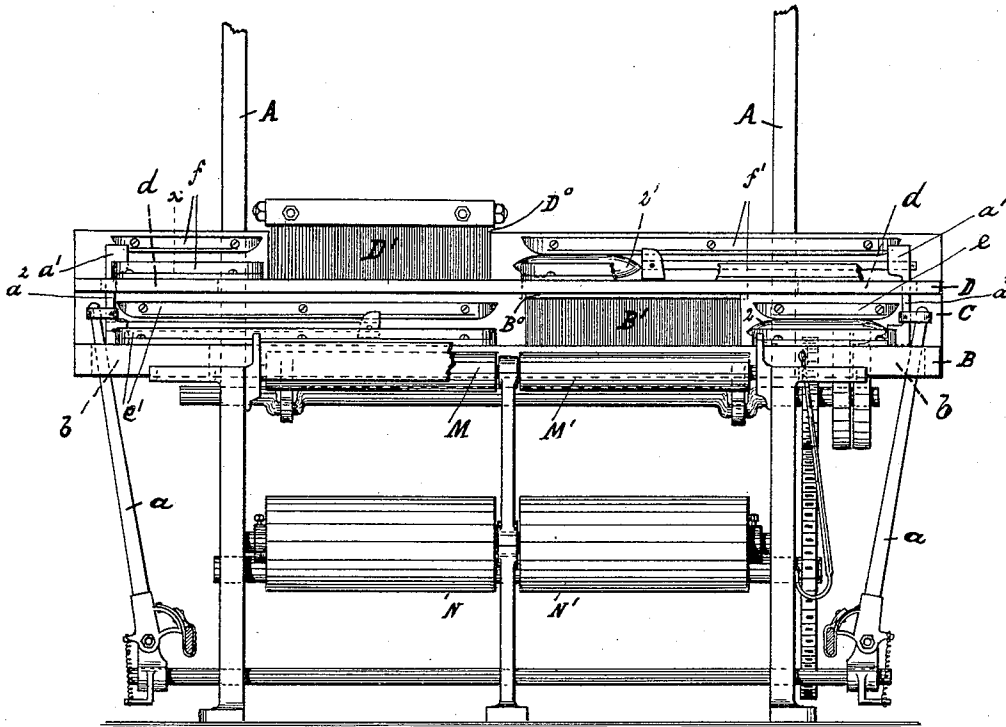


Fig. 1.

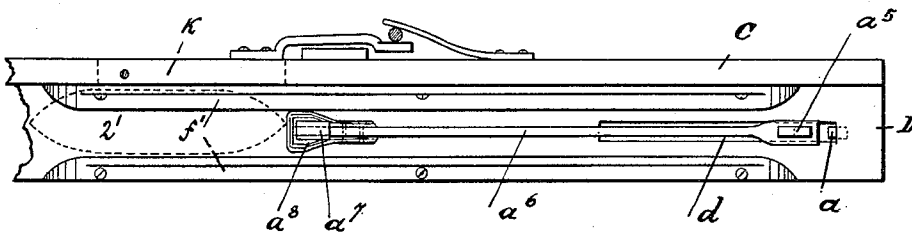


Fig. 2.

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ATTORNEYS

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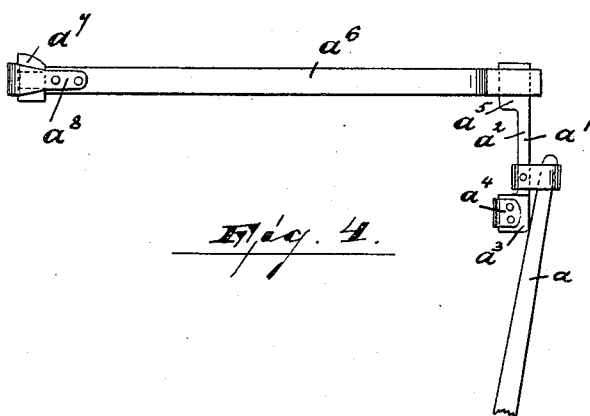
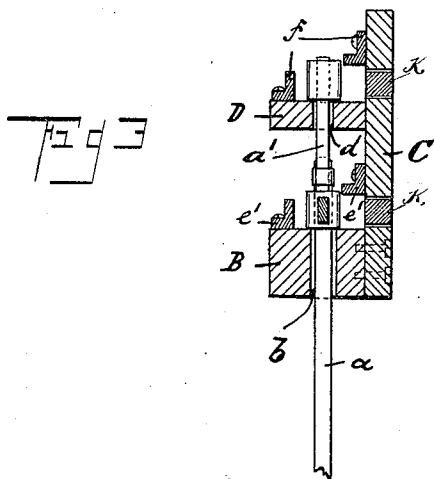


Fig. 4.

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UNITED STATES PATENT OFFICE.

LOUIS TEWELES AND THOMAS A. ROBINSON, OF PATERSON, NEW JERSEY.

PICKER FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 479,903, dated August 2, 1892.

Application filed December 14, 1891. Serial No. 414,944. (No model.)

To all whom it may concern:

Be it known that we, LOUIS TEWELES and THOMAS A. ROBINSON, citizens of the United States, residing in Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Pickers for Looms; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in pickers for looms; and it consists in certain novel features hereinafter described and claimed.

In the annexed drawings, Figure 1 is a front elevation of a loom provided with our improved picker, only such parts of the loom being shown as are necessary to properly illustrate the operation of the picker. Fig. 2 is a plan view, on a larger scale, of a portion of the raceway, showing the picker in its proper position relative thereto. Fig. 3 is an enlarged sectional view on the line *x* of Fig. 1, and Fig. 4 is an enlarged detail view of the picker.

In the drawings, A represents the loom-frame, on which the raceway B oscillates in the usual manner, a fly-shuttle 2 being thrown over said raceway by picker-sticks *a a*. To the back of the raceway is secured an upwardly-extending frame C, provided with an upper raceway D, parallel with the raceway B and a suitable distance above the same. This frame C is also provided with openings B° D°, in which are inserted reeds B' D' arranged at opposite sides of the center of the loom, as clearly shown in Fig. 1.

The raceways B D are provided with registering longitudinal slots *b d*, which guide the pickers *a'* and the picker-sticks *a*, as clearly shown, and on each side of the reeds B' D' the raceways are provided with the shuttle-boxes *e e'* and *f f'*. The said shuttle-boxes are of different lengths and are so arranged as to almost equal the distance from the outside ends of their respective slots to the inside ends of

their respective reeds, as clearly shown in 50 Fig. 1.

The picker *a'* is secured to the picker-stick *a* by a leather strip and consists of the upright arm *a²*, provided at one end with an enlargement *a³*, partially or wholly surrounded by a leather pad *a⁴*, and at the other end with an enlargement *a⁵*, to which is secured a horizontally-extending arm *a⁶* of a length equal to the length of its respective shuttle-box, less the length of a shuttle. The free end of this arm is provided with a cross-head *a⁷*, adapted to slide on the surface of its respective raceway, and is also wholly or partially surrounded with a leather pad *a⁸*. The upright arm *a²* is adapted to slide in the elongated slot *d* and its lower enlargement to travel on the surface of raceway B.

In Fig. 4 of the drawings we have shown a detail view of the picker corresponding with the right-hand side of Fig. 1. The arrangement of the picker for the left-hand side of the loom is similar; but the horizontal arm is attached to the lower enlargement of the upright arm *a²*, and the upper enlargement is provided with a leather pad.

The shuttle-boxes are provided with binders *k*, connected with the loom-stopping mechanism in the usual manner, and the warp and take-up rollers are made in sections M M' and N N'.

In operation the lower and upper shuttles are thrown across the loom simultaneously by the picker-sticks and their pickers, and thereby two independent pieces of fabric may be woven.

Our improved picker is very simple in its construction and will operate rapidly without any tendency to bind on the raceways.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination of a frame having an elevated raceway and adapted to be secured to the raceway of a loom parallel therewith, shuttle-boxes arranged on each of the raceways, shuttles operated from said boxes, a vertical arm having enlargements at its ends and connected to the picker-stick by a flexi-

ble strip, said arm resting on the raceway of the loom and extending up through the upper raceways, a pad on one end of the said arm, a horizontal arm secured to the other end of
5 the same, a cross-head at the end of said horizontal arm, and a pad secured to the end of the horizontal arm and around the cross-head.

2. A picker for looms, consisting of a vertical arm having an extension at its lower end
10 adapted to ride on the lower raceway, a flexible loop adapted to connect said vertical arm

with the picker-stick, and a horizontal arm connected to the upper end of said vertical arm and extending along the upper raceway.

In testimony that we claim the foregoing 15 we have hereunto set our hands this 4th day of December, 1891.

LOUIS TEWELES.

THOMAS A. ROBINSON.

Witnesses:

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ALFRED A. VAN HOVENBERG.