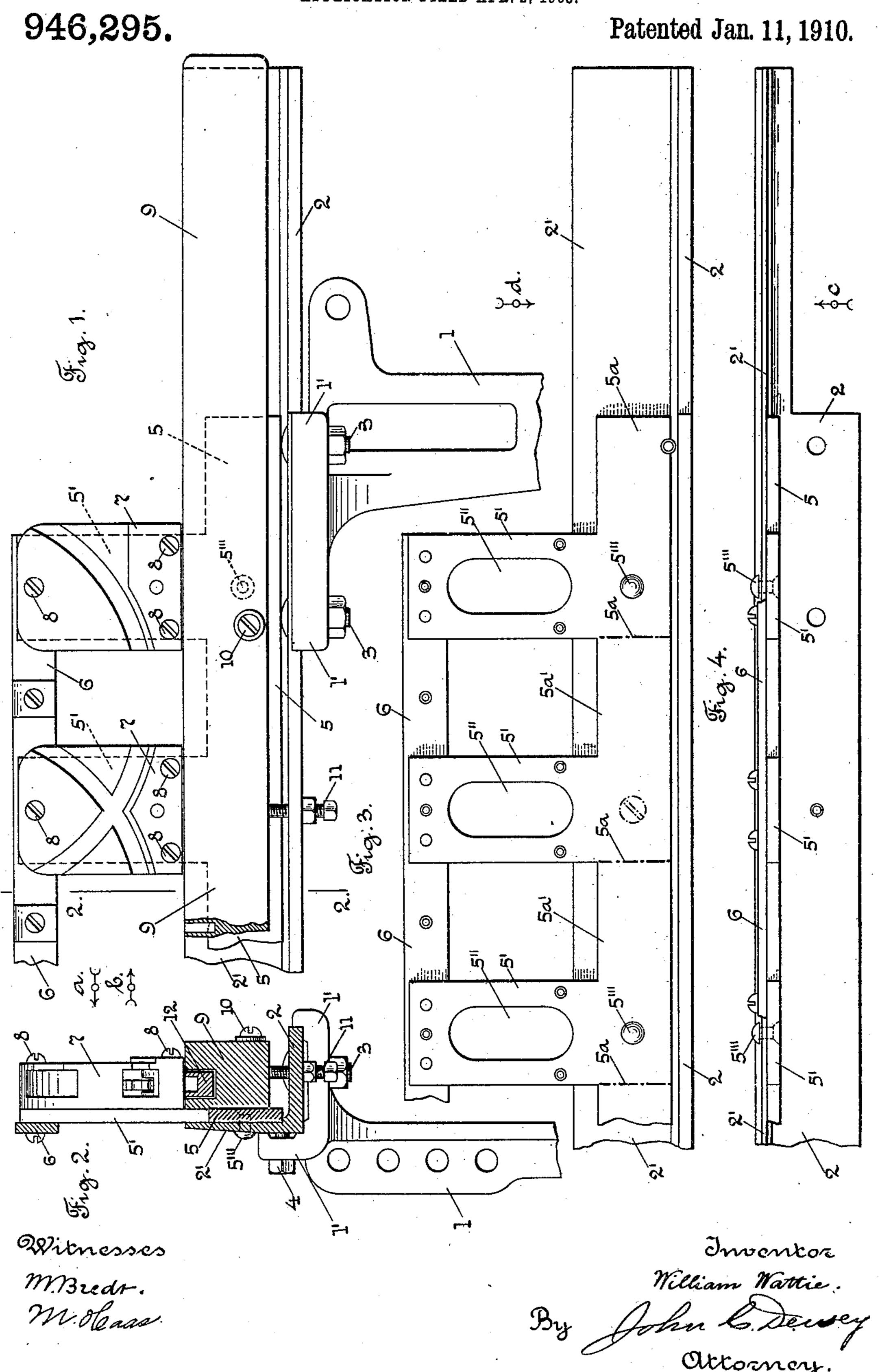
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LAY FOR NARROW WARE LOOMS.

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UNITED STATES PATENT OFFICE.

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LAY FOR NARROW-WARE LOOMS.

946,295.

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To all whom it may concern:

Be it known that I, WILLIAM WATTIE, a Worcester, in the county of Worcester and 5 State of Massachusetts, have invented certain new and useful Improvements in Lays for Narrow-Ware Looms, of which the following is a specification.

My invention relates to improvements in 10 the lay of a narrow ware or ribbon loom, and particularly to improvements in the class of lays which have a metal bar in place

of the wood beam ordinarily used.

In my improved construction of the lay, 15 I preferably use a metal bar of angle shape in cross section, and combine with said bar, a second metal bar, preferably made in one piece, extending upon the front side of the vertically extending portion of the angle 20 metal bar and secured thereto, and having extending up therefrom at regular intervals and integral therewith, extensions forming stands for the shuttle blocks, and the hand rail, as will be hereinafter fully described.

I have only shown in the drawing a detached portion of one end of a lay embodying my improvements, sufficient to enable those skilled in the art to understand the

construction thereof.

Referring to the drawing:—Figure 1 is a front view of the right hand end of a lay, and the upper part of a lay sword, embodying my improvements, and looking in the direction of arrow a, Fig. 2. Fig. 2 is a sec-35 tion, on line 2, 2, Fig. 1, looking in the direction of arrow b, same figure. Fig. 3 shows the angle metal bar, and the bar secured upon the front side thereof, and the rail shown in Fig. 1, detached, looking in 40 the direction of arrow c, Fig. 4. Fig. 4 is a plan view of the parts shown in Fig. 3, looking in the direction of arrow d, same figure.

In the accompanying drawing, 1 is the upper part of a lay sword, having upon its 45 upper end an extension 1' forming a support or bracket to receive and support one end of the metal bar 2, which in this instance is of angle shape in cross section, and which extends for the full width of the lay, 50 and forms the lay beam of the loom. The angle metal bar 2 is rigidly secured to the bracket 1', in this instance by bolts 3 through its lower side, and bolts 4 at its rear side.

Extending upon the inner side of the ver-55 tically extending part 2' of the angle metal

bar 2, is a longitudinally extending bar 5, preferably made in one part, and having excitizen of the United States, residing at tending up therefrom the extensions 5, integral therewith, which extensions form stands for the shuttle blocks. The stands 60 5' are preferably cut out at 5" to reduce their weight. The bar 5 is secured to the vertically extending part 2' of the angle metal bar 2, in this instance by rivets 5". To the upper ends of the stands 5' is se- 65 cured a hand rail 6, preferably of metal, which extends in the direction of the width of the lay.

Upon the front side of the stands 5' are secured the shuttle blocks 7 which are at- 70 tached to said stands, in this instance by screws 8. The blocks 7 have guide-ways therein for the shuttles, not shown, in the

usual way.

The reeds, not shown, extend between the 75 stands 5', with the lower edge resting on the upper edge of the bar 5, and the upper edge

secured to the hand rail 6.

On the front side of the bar 5 extends a bar 9, of wood, which is preferably adjust- 80 ably secured to the bar 5 by screws 10, which extend through elongated slots in the bar 9, and into screw threaded holes in the bar 5. Adjusting bolts 11 extend through the horizontal part of the angle metal bar 2, and en- 85 gage the lower surface of the bar 9, to adjust the same in a vertical plane. The upper side of the bar 9 has a longitudinal recess therein, to receive the longitudinally moving rack 12, see Fig. 2, which is operated in the 90 usual way by straps, not shown.

Instead of having the bar 5 made in one part, it may be made in several parts, if preferred, as indicated by broken lines 5^a, in Fig. 3, the side extensions 5a' forming the 95 support for the lower edge of the reeds, not

shown.

It will be understood that the details of construction of my improvements may be varied if desired.

Having thus described my invention, what I claim as new and desire to secure by Let-

ters Patent is:

1. In the lay of a narrow ware loom, the combination with a metal bar of angle shape 105 in cross section, of a second metal bar extending upon the vertically extending portion of said angle metal bar, and secured thereto, and said second metal bar having extending up therefrom and integral there- 110 with, extensions forming stands for the shuttle blocks and for the hand rail.

2. In the lay of a narrow ware loom, a metal bar of angle shape in cross section, a metal bar or bars extending upon the front side of the vertically extending portion of said angle metal bar and secured thereto, and having extending up therefrom extensions forming stands for the shuttle blocks and for the hand rail.

3. In the lay of a narrow ware loom, a metal bar of angle shape in cross section, a metal bar or bars extending upon the front side of the vertically extending portion of said angle metal bar and secured thereto, and having extending up therefrom extensions forming stands for the shuttle blocks and for

the hand rail, said extensions having open-

ings therethrough.

4. In the lay of a narrow ware loom, the 20 combination with a metal bar of angle shape in cross section, and metal stands for the shuttle blocks extending upon the front side of said vertically extending portion, and secured thereto, of shuttle blocks secured to 25 said stands, and a hand rail secured to said stands, and an adjustable bar extending below said shuttle blocks, and a shuttle rack supported in said bar.

WILLIAM WATTIE.

Witnesses:

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