(No Model.)

L. HOLLINGWORTH.

DRIP PAN FOR LOOMS.

No. 429,918. Patented June 10, 1890.

Fig. 1.

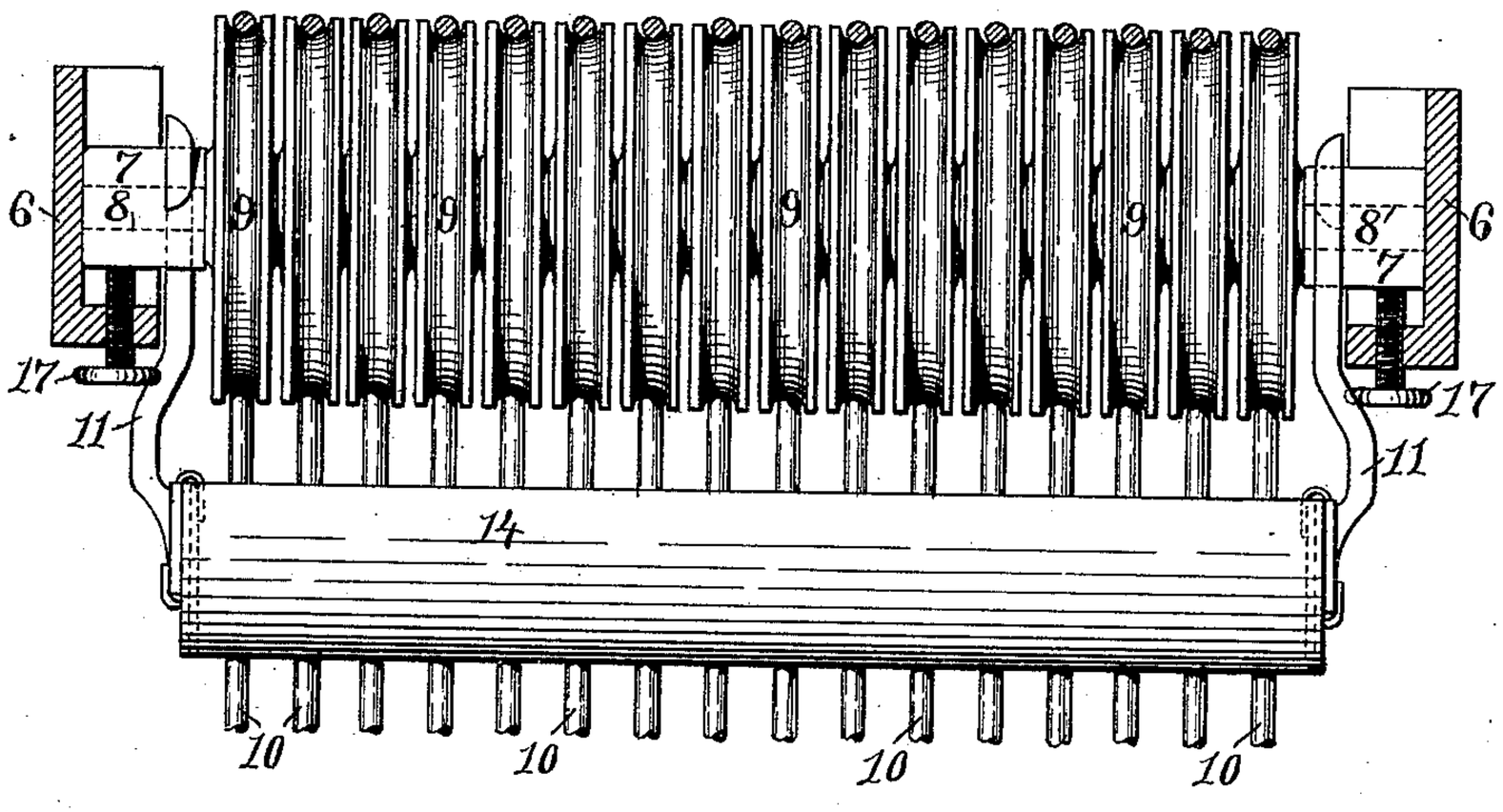


Fig. 2.

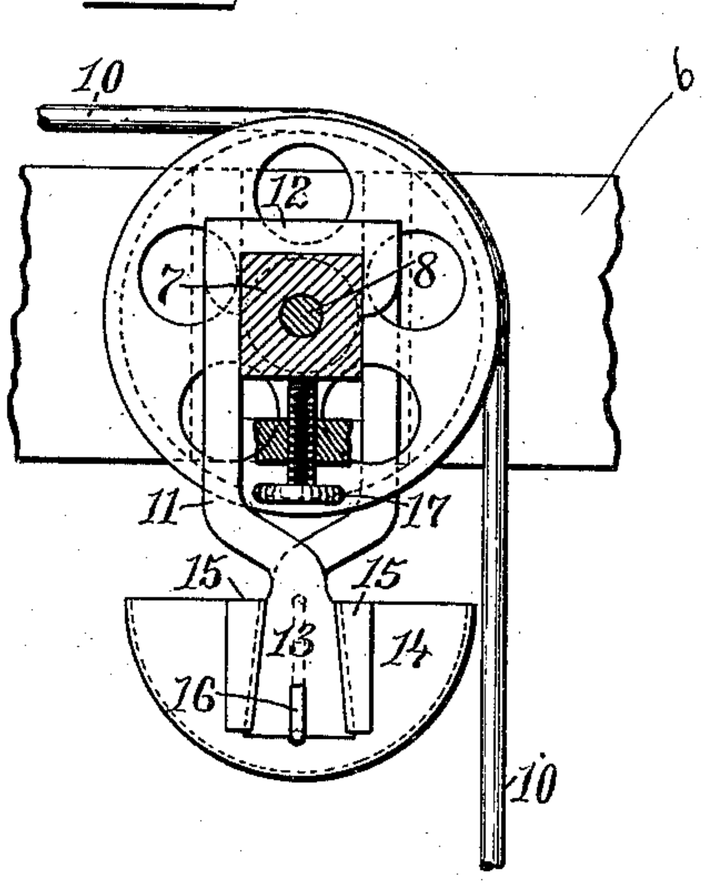
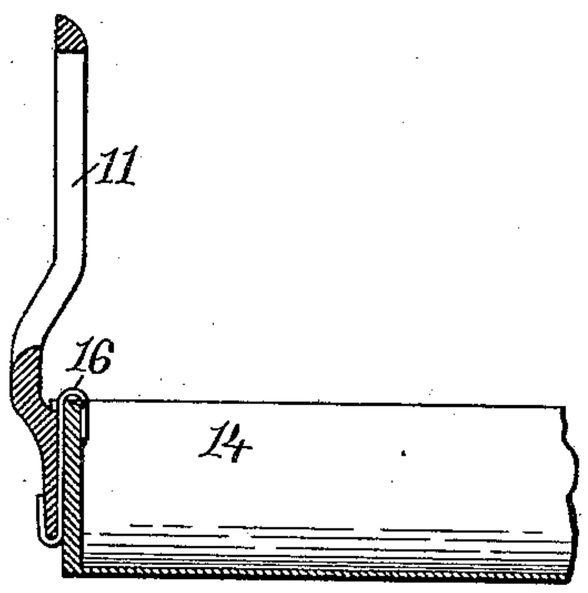


Fig. 3.



WITNESSES:
Chas. H. Luther Jr
M. F. Bligh.

INVENTOR:
Louis Hollingworth
by Joseph A. Miller & Co.
Attys.

UNITED STATES PATENT OFFICE.

LOUIS HOLLINGWORTH, OF PROVIDENCE, RHODE ISLAND.

DRIP-PAN FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 429,918, dated June 10, 1890.

Application filed January 13, 1890. Serial No. 336,726. (No model.)

To all whom it may concern:

Be it known that I, LOUIS HOLLINGWORTH, of the city of Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Drip-Pans for Looms; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to the sheaves or pulleys over which the harness-straps of a loom pass; and it consists in the peculiar and novel construction of a pair of hangers and a drip-pan, as will be more fully set forth hereinafter.

In looms in which a number of harnesses are operated to spring the warp the harness-straps pass over sheaves or pulleys, which turn on shafts supported in adjustable bearings. These sheaves require to be lubricated from time to time, and consequently some of the lubricating-oil drops on the harnesses and, running down on the same, injures the thread. So objectionable is this lubricating-oil, which by contact with the bearings becomes black, that in most mills the lubrication of the sheaves is strictly forbidden, although this not only causes this portion of the loom to soon wear out, but the friction of the sheaves on the shaft and on each other increases the resistance of the loom, which requires a constant additional use of power to run the loom.

Figure 1 is a view of the sheaves and the harness-straps of a loom, showing the adjustable bearings, the hanger, and the drip-pan. Fig. 2 is an end view showing the construction of the hanger and its connection with the bearings and the drip-pan. Fig. 3 is a sectional view showing the wire for securing the drip-pan to the hanger.

Similar numbers of reference indicate corresponding parts throughout.

In the drawings, the numbers 6 indicate the usual metal arch, extending over the loom from one end frame to the other, by which the harnesses are supported.

7 indicates the adjustable bearings for the ends of the shaft 8. The number 9 indicates the sheaved or grooved pulleys, and 10 the harness-straps.

11 indicates the hanger, consisting of the hook portion 12, extending over the square bearing 7, the lower portion being bent outward and provided with the dovetailed lower end 13. The drip-pan 14 is provided at each end with the cleats 15, forming a socket into which the dovetailed end 13 of the hanger 11 enters. The inner face of the dovetailed end 13 is provided with a groove, in which the wire 16 is embedded, so that when the hanger is secured to the drip-pan the wire 16, (shown clearly in Figs. 2 and 3,) embedded in the groove of the dovetail 13, is bent over the lower end of the dovetail and over the end of the drip-pan, thereby firmly securing the hangers and drip-pan together. By this construction the bearings 7 can be readily adjusted through the screws 17. The drip-pan will be always in the proper position with relation to the sheaves 9. Any oil dropping from the shaft or the sheaves will be received by the drip-pan and cannot injure the harnesses or reach the threads.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a loom, the combination, with the sheaves and the adjustable bearings for the same, of the hangers 11, formed to extend over the bearing-blocks and provided at their lower ends with the dovetails 13, and the drip-pan 14, provided at the ends with the cleats 15, constructed to receive the dovetail end of the hangers, as described.

2. In a loom, the combination, with the harness-straps, the sheaves 9, the arch-pieces 6, the bearings 7, and screws 17 for adjusting the bearings, of the hangers 11, the upper ends of which being formed to inclose three sides of the adjustable bearings, the lower ends being formed into the dovetails 13 and having a groove on their inner surface, the drip-pan 14, having the ends provided with the cleats 15, and the bent-over wire 16, constructed to secure the drip-pan to the hangers, as described.

LOUIS HOLLINGWORTH.

Witnesses:
J. A. MILLER, Jr.,
M. F. BLIGH.