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F. G. COBB.

APPARATUS FOR FACILITATING LOOM ATTENDANCE.

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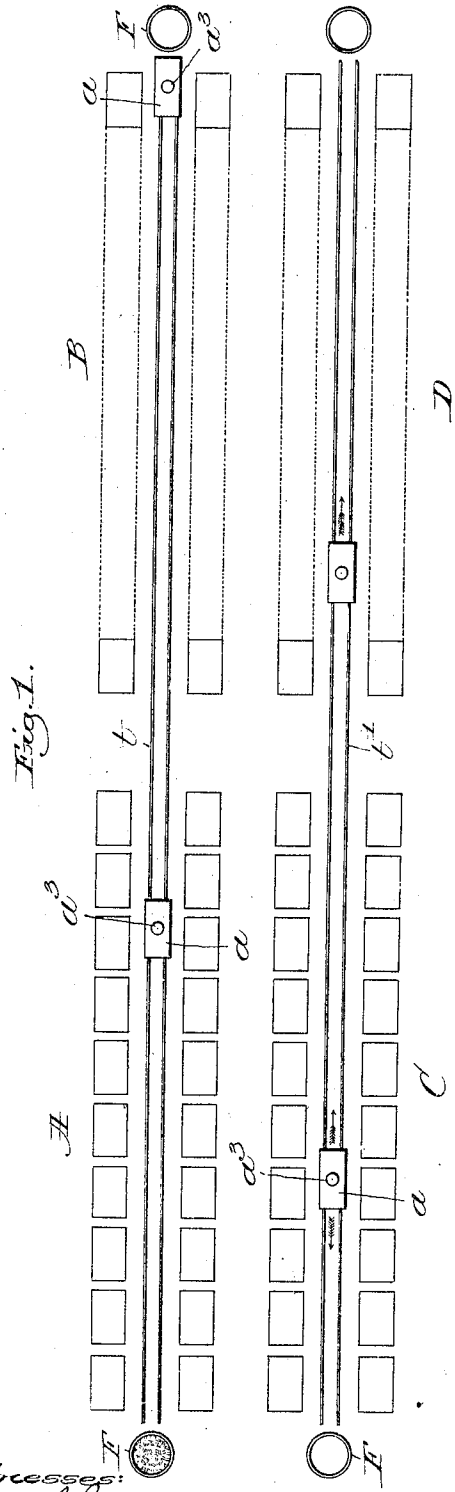


Fig. 1.

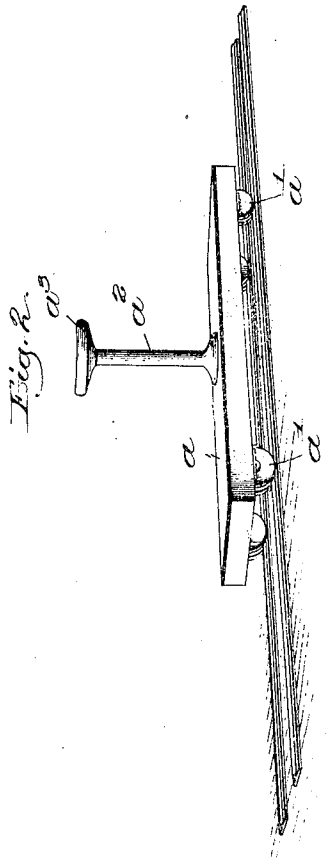


Fig. 2.

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR FACILITATING LOOM ATTENDANCE.

SPECIFICATION forming part of Letters Patent No. 794,701, dated July 11, 1905.

Application filed April 3, 1905. Serial No. 253,451.

To all whom it may concern:

Be it known that I, FERNANDO GORDON COBB, a citizen of the United States, and a resident of Huntsville, county of Madison, State of Alabama, have invented an Improvement in Apparatus for Facilitating Loom Attendance, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

With the introduction of different instrumentalities tending to increase the automaticity of looms for weaving—such, for instance, as automatic warp stop-motions and filling-replenishing mechanisms—the number of looms looked after by a weaver has gradually increased.

Looms of the well-known "Northrop" type, an instance of which is shown and described in United States Patent No. 529,940, when provided with warp-stop-motion mechanism reduce the work of the weaver mainly to replenishing the filling feeders or hoppers with full bobbins, piecing up broken warp-threads, and starting up a loom which has been stopped upon the occurrence of a fault. Consequently a weaver can readily attend a group or "battery" of from eighteen to twenty-four looms or even more in some instances, the looms in battery being arranged in two parallel rows facing each other and so near each other that the alley between is only wide enough for the weaver to move up and down and to permit the removal of the cuts of cloth.

Considering a battery of, say, twenty looms, ten looms in each row, it will be seen that the weaver has quite a walk from one end of the alley to the other, and this labor is increased by the fact that the full bobbins for replenishing the hoppers of the various looms must be obtained from a main supply-receptacle at one end of the alley.

My present invention has for its object the production of means for greatly facilitating the attendance of the weaver upon the different looms in a battery and at the same time reducing the physical strain upon the weaver.

The novel features of my invention will be fully described in the subjoined specification and particularly pointed out in the following claims.

Figure 1 is a plan view of several batteries of looms shown diagrammatically arranged in accordance with my invention, showing the traveling carriage for the weaver in charge of each battery; and Fig. 2 is a perspective view, on a large scale, of one form of traveling carriage embodied in my invention.

Referring to Fig. 1, I have shown four batteries of looms, as A, B, C, and D, each battery comprising twenty looms arranged in two parallel rows facing each other, ten looms in each row. The looms shown diagrammatically are supposed to be automatic filling-replenishing looms and provided with suitable automatic warp-stop-motion mechanism. I have shown the batteries A and B in alinement, so that the alley between the two rows of each battery extends from one to the other battery and the length thereof, and in such alley is laid a track t of any suitable character. A similar track t' is laid in the alley between the two rows of looms in the batteries C and D, as clearly shown in Fig. 1, and at each end of each track I place a receptacle F for full bobbins. The weaver in charge of each battery is provided with a carriage adapted to travel on the track, and in Fig. 2 a convenient form of carriage is shown, it consisting of a low platform-truck a, having flanged wheels a' to travel upon the track and having an upright standard or pedestal a^2, provided with a rotatable seat a^3 for the weaver. The seat is at such a height that the weaver can readily reach the filling feeders or hoppers of the looms in each row of the battery to replenish the same from a small supply carried in a sack or pocket attached to the waist of the weaver. As the seat a^3 is rotatable or swiveled, it will be manifest that the weaver can readily reach a loom in either row without leaving the seat, and by grasping a portion of an adjacent loom-frame the weaver can by a slight pull propel the carriage in

either direction along the track to the loom needing attention. A very slight pull will send the carriage a considerable distance swiftly and easily, and unless the piecing-up of a warp-thread is necessary or the weaver has to go to the back of a loom it is unnecessary to leave the carriage during a large part of the time. When the supply of bobbins carried by the weaver is exhausted, the carriage or truck is run to the end of the alley and the supply replenished from the receptacle F. The truck is also convenient for removing the "cut" or full roll of cloth from a loom, as it can be carried to the end of the alley and there deposited to be taken from the weave-room.

By the invention herein described the weaver is relieved of continual walking up and down the alley, and the ease and rapidity with which the weaver can move from place to place enables an increase in the size of the battery to be made without involving undue labor to the weaver.

I have shown in the diagram twenty looms in each battery and the batteries arranged in pairs in alinement; but it will be manifest that the number of looms in the battery may be varied as desired, and the number of batteries on each track will depend upon the character of the weave-room, the lighting, &c. My invention, accordingly, is not restricted to the precise arrangement herein shown nor to the particular character of the carriage or truck, for, so far as I am aware, it is broadly new to provide a track between two parallel rows of looms of a battery and a carriage for the weaver adapted to travel on the track from one to the other end of the alley between the rows of looms.

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

1. The combination with a battery of looms arranged in two parallel rows facing and near each other, and a fixed track extending longitudinally between said rows from one to the other end thereof, of a carriage for the weaver movably mounted on and guided by the track, whereby the weaver can readily and quickly pass from loom to loom as required.

2. The combination with a battery of looms arranged in two parallel rows facing and near each other, and a fixed track extending longitudinally between said rows from one to the other end thereof, of a truck supported upon and guided by the track and movable thereon to a desired point, and a seat for the weaver, rotatably mounted on the truck.

3. A battery of automatic filling-replenishing looms arranged in two parallel rows facing and near each other, a fixed track extending from one to the other end of the alley between the two rows of looms, a receptacle for full bobbins located at one end of the alley, a truck movable on the track to any point in the length of the alley, and a seat for the weaver rotatably mounted on the truck, whereby the weaver can quickly and readily replenish the looms with bobbins from a supply on the truck, and otherwise tend any particular loom, and replenish the bobbins on the truck from the full bobbin-receptacle.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FERNANDO GORDON COBB.

Witnesses:
RICHARD T. TYLER,
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