T. MOONEY.

SHUTTLE HOLDER.

APPLICATION FILED APR. 4, 1906.

956,131. **Patented Apr. 26, 1910.**

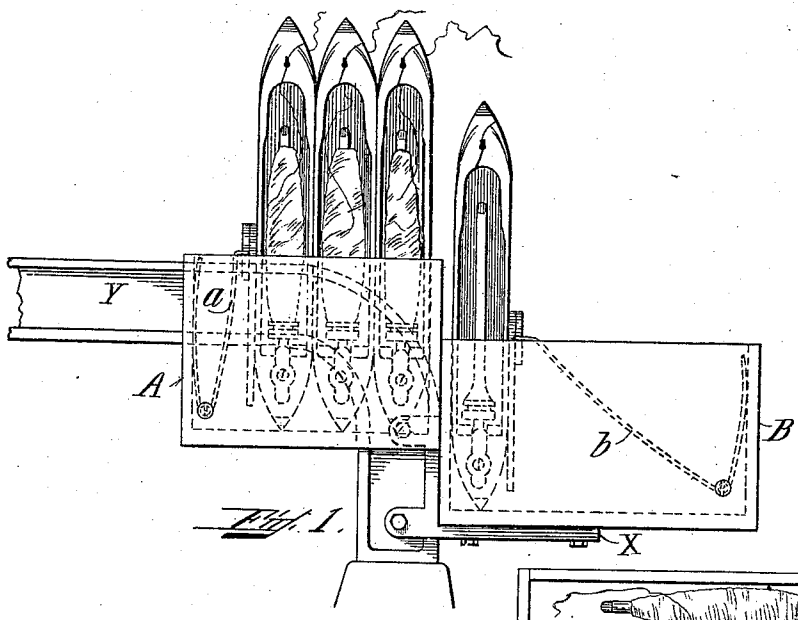

Fig. 1.

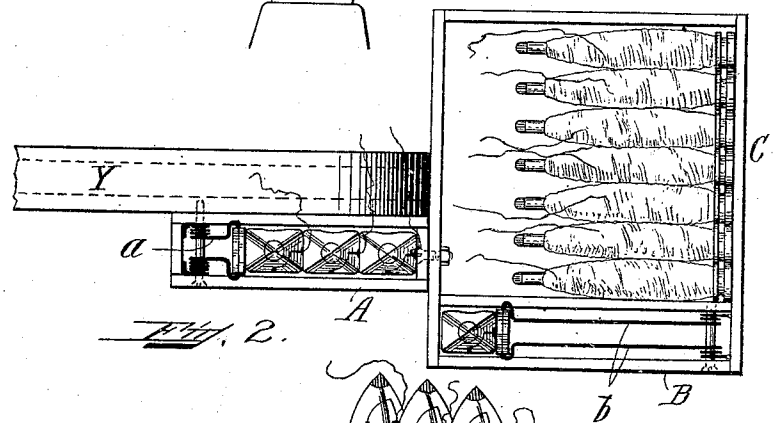

Fig. 2.

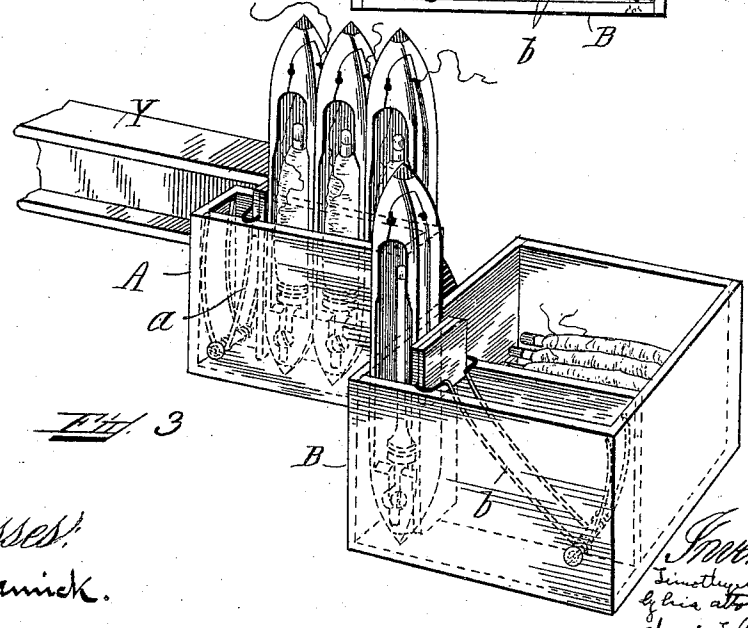

Fig. 3

Witnesses:
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UNITED STATES PATENT OFFICE.

TIMOTHY MOONEY, OF FALL RIVER, MASSACHUSETTS.

SHUTTLE-HOLDER.

956,131. Specification of Letters Patent. Patented Apr. 26, 1910.

Application filed April 4, 1906. Serial No. 309,737.

To all whom it may concern:

Be it known that I, TIMOTHY MOONEY, a citizen of the United States, residing at Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Shuttle-Holders, of which the following is a specification.

My invention relates to shuttle holders and has for its principal objects, first, the provision of means whereby a series of shuttles may be conveniently arranged for use in succession; and second, the provision of means whereby a weaver may determine at a glance whether a loom has a proper supply of filled shuttles.

Figure 1 is an elevation of my invention; Fig. 2 is a plan thereof; while Fig. 3 shows my invention in perspective.

In the drawings illustrating the principle of my invention, and the best mode now known to me of embodying that principle, I have shown apparatus mounted, for example, upon a bracket X fixed to the arch Y of a common loom. This apparatus consists of two boxes A, B, so arranged that one is higher than the other, and when a number of shuttles are in them, those in one box may be readily distinguished from those in the other box. Into one of these boxes, say A, are placed only shuttles having full bobbins, while in the other box are those shuttles, having empty bobbins.

Each box is of such width that several shuttles may be supported and secured therein in series by a spring member *a* or *b* tending to hold them in an upright position, and at the same time adapted to permit the box to be completely filled with shuttles, if necessary.

Conveniently near to these boxes is a receptacle C for bobbins or cops of filling thread, with which to fill empty shuttles; it may, if desired, be made to form a part of box B, as is shown in the drawings.

The operation and utility of my invention will next be made plain.

The weaver is supposed to be operating a certain number of looms, each of which is provided with the above described shuttle holder. By looking at the various shuttle holders, he at once sees and determines the number of filled shuttles, and the number of unfilled shuttles, at each loom; he well knowing that the upper box is for filled shuttles, and the lower box for unfilled shuttles. If, for example, a series of unfilled shuttles is seen in the lower box B, at one loom, he goes to it, takes a bobbin of filling thread from the box C; removes the empty shuttle at the head of the series sustained in the box B by the spring device *b*; puts the bobbin in the shuttle; and then places the filled shuttle, either alone, or at the rear of a series of filled shuttles in the filled shuttle box A; thereby compressing the spring device *a*, which always tends to hold said one or more filled shuttles in an upright position in the box. The weaver repeats this operation with the remaining first unfilled shuttle in box B, until box A contains a desired number of filled shuttles.

When the filling thread on a bobbin in the loom runs out and the loom stops, there is ready at hand for use a series of filled shuttles in the box A. From it, the weaver takes the first of the series, and, after the removal of the empty shuttle, places the full shuttle in the loom. The empty shuttle is then stuck into its box B, where it is held by the spring *b*, either alone or at the rear of one or more empty shuttles, until it is removed, filled with a new bobbin, and again put into the box A, in the manner already described. In fine, it will now be plain that by means of my invention, all of the shuttles pass through the loom, the empty shuttle box, the filled shuttle box, and back to the loom, in succession, so that they are uniformly used and worn; and that the weaver can, at a glance, see whether the loom has a proper supply of filled shuttles, and he can govern his actions accordingly.

Having described the construction and operation of my invention I desire to protect the same in the broadest manner legally possible.

What I claim is:

In a common loom, a receptacle for sustaining filled shuttles on end; and a receptacle for sustaining unfilled shuttles on end; one of said receptacles being located

above, but at one side of the other of said receptacles, so that the weaver may, from different positions in relation to the loom, quickly see, and distinguish between, the number of filled shuttles if any, and the number of unfilled shuttles if any, on the loom.

In testimony whereof I affix my signature in presence of two witnesses.

TIMOTHY MOONEY.

Witnesses:
E. T. NUIAC,
FRANCIS J. V. DAKIN.