No. 631,045. Patented Aug. 15, 1899.

C. LAMOTHE.

LOOM SHUTTLE THREADER.

(Application filed Mar. 24, 1899.)

(No Model.)

Fig. 1.

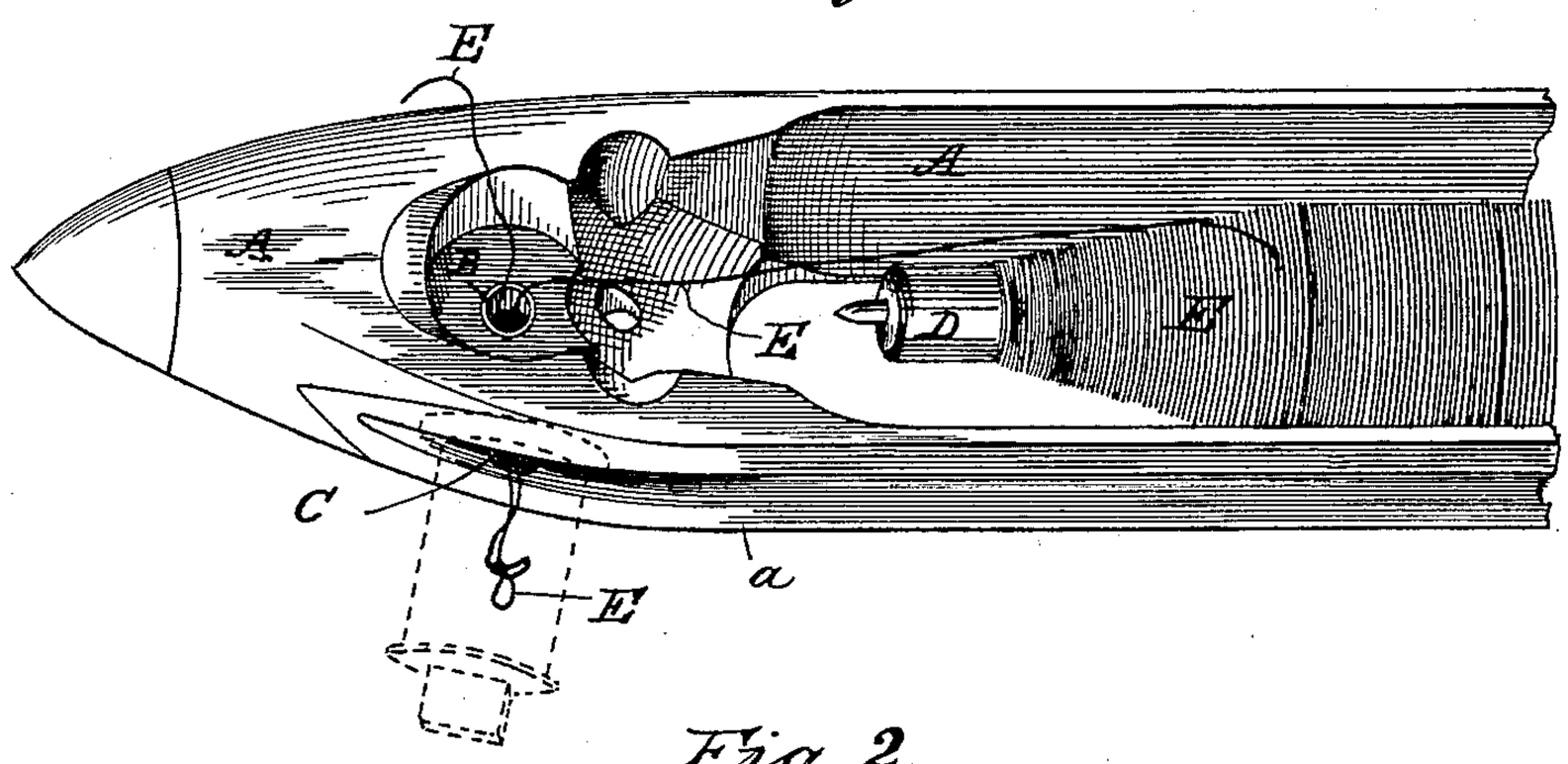


Fig. 2.

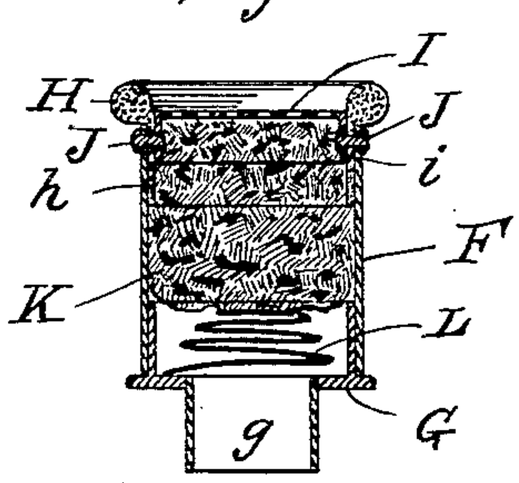


Fig. 3.

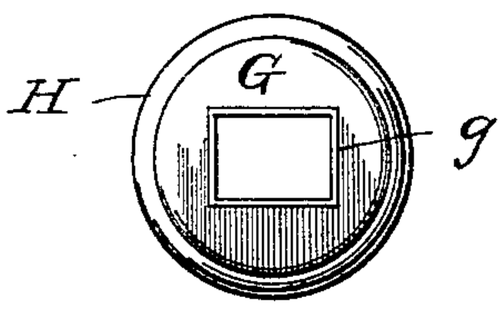
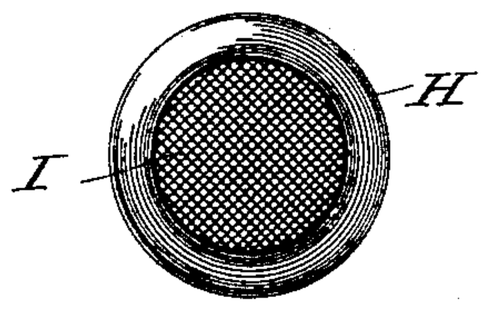


Fig. 4.



Witnesses

William H. Drury

Ernest H. Tardwick

Inventor

Cyrille Lamothe

By his Attorney J. B. Thurston

UNITED STATES PATENT OFFICE.

CYRILLE LAMOTHE, OF MANCHESTER, NEW HAMPSHIRE.

LOOM-SHUTTLE THREADER.

SPECIFICATION forming part of Letters Patent No. 631,045, dated August 15, 1899.

Application filed March 24, 1899. Serial No. 710,287. (No model.)

To all whom it may concern:

Be it known that I, CYRILLE LAMOTHE, a citizen of the United States, residing at Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Loom-Shuttle Threaders; and I 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.

Various methods have been employed by mill operatives for threading loom-shuttles with as little waste of time as possible; but after trying hooks and other mechanical contrivances for the purpose the operative is very apt to return to the common practice of applying the lips to the side orifice of the threading-aperture of a shuttle and drawing the yarn or thread through by suction. This custom is exceedingly injurious to health, as the fine lint and dust which has gathered in the shuttle is thus drawn into the throat and lungs of an operator, for which reason operatives have sometimes been compelled to give up their positions and seek other employment.

By the use of my invention an operative may thread a loom-shuttle by suction as much as he pleases without the fear of inhaling a particle of dust or lint; and the invention consists of a suitable suction-tube having at one end a mouthpiece and at the other a rubber cushion and finely-perforated disk or screen and preferably containing a filling of some fibrous material or sponge, which may be moist, as will be fully set forth in the following specification and claims and clearly illustrated in the drawings accompanying and forming a part of the same, of which—

Figure 1 is a broken perspective view showing a portion of a loom shuttle and bobbin and in dotted lines my improved suction-threader in position as when having threaded the shuttle. Fig. 2 is an enlarged detailed sectional view of my improved suction shuttle-threader, Figs. 3 and 4 being end views showing, respectively, the mouthpiece and the rubber cushion and screen.

Similar letters of reference denote corresponding parts in all the views.

A is a loom-shuttle, which is provided with the usual angular perforation located near one end and extending from the top downward and out at one side of said shuttle, the top orifice being indicated at B and the side orifice at C, said orifice constituting the threading-aperture.

D is the bobbin, and E is the thread or filling, the end of which filling is represented as having been somewhat snarled and drawn through the threading-aperture B C.

My improved suction-threader consists of a tube or shell F, provided at one end with a cap G, having a suitable mouthpiece *g*, and at the opposite end with an annular rubber cushion H, provided with a sleeve *h*, extending within the shell F, and a perforated disk or screen I, having an annular flange *i* fitting within the rubber sleeve *h*, may be secured therein by rivets J. The cap G is preferably made a snug fit for the shell F or may be threaded thereto, so that it may be removed for the insertion or removal of a sponge or other fibrous material K, placed within the shell F for the purpose of preventing the passage of lint or dust from the shuttle to the mouth of an operator. The sponge K may be kept damp, if desired, and in order to prevent said sponge from expanding into the mouthpiece *g* a spiral spring L may be placed so as to operate expansively between said sponge and cap, as shown in Fig. 2, and be secured to the latter, if desired.

In practice my improved suction-threader is placed against a shuttle, so as to cover the orifice C, and the mouthpiece placed between the lips of an operative, who then sucks the free end of the filling E through the aperture B C, when it may be pulled out, as seen in Fig. 1. A rubber cushion, such as shown at H, is essential, in order that the suction-threader may closely fit the side of the shuttle notwithstanding any uneven surfaces—such, for example, as the groove *a*.

Having described my improved device, what I claim is—

1. A loom-shuttle threader, the same consisting of a tube or shell, having at one end a mouthpiece and at the opposite end a perforated disk or screen and a rubber ring, and a suitable filling for said shell composed of a fibrous material, substantially for the purpose set forth.

2. A suction loom-shuttle threader com-

prising a shell having a mouthpiece at one end and a perforated disk or screen at the other, a rubber ring or cushion adapted for contact with the shuttle and covering the threading-aperture, a suitable fibrous filling for said shell, and means for preventing said filling from being sucked into the mouthpiece.

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

CYRILLE LAMOTHE.

Witnesses:
J. B. THURSTON,
EMILE H. TARDIVEL.