

(No Model.)

T. CLARKE.

APPARATUS FOR THE MANUFACTURE OF LOOM PICKING BANDS, &c.

No. 510,500.

Patented Dec. 12, 1893.

Fig. 1.

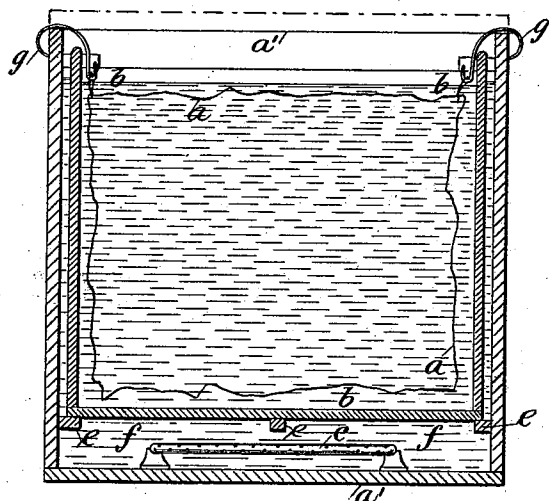


Fig. 2.

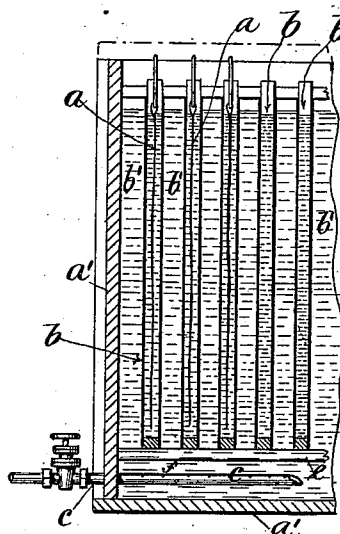


Fig. 3.

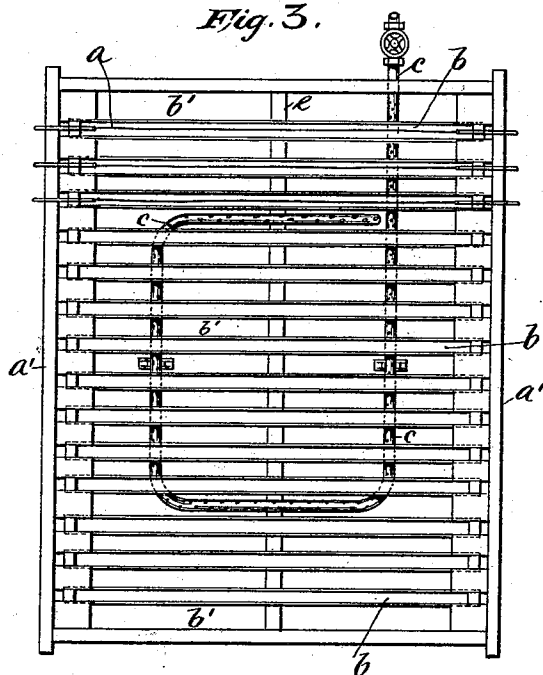
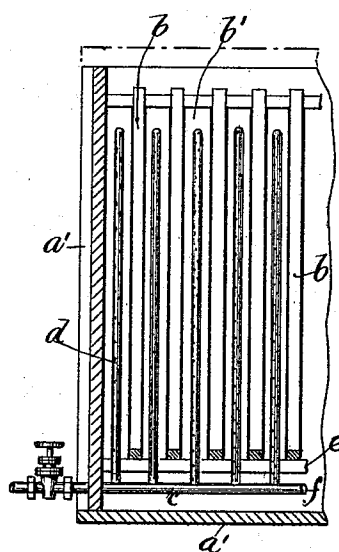


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

THOMAS CLARKE, OF STOCKPORT, ENGLAND.

APPARATUS FOR THE MANUFACTURE OF LOOM PICKING-BANDS, &c.

SPECIFICATION forming part of Letters Patent No. 510,500, dated December 12, 1893.

Application filed March 16, 1893. Serial No. 466,331. (No model.) Patented in England June 18, 1891, No. 10,348; in France March 24, 1892, No. 220,376; in Belgium March 24, 1892, No. 98,942; in Switzerland April 5, 1892, No. 5,048; in Germany June 1, 1892, No. 66,172, and in Canada June 13, 1892, No. 60,382.

To all whom it may concern:

Be it known that I, THOMAS CLARKE, a subject of the Queen of Great Britain, and a resident of Stockport, in the county of Chester, England, have invented new and useful Apparatus for the Manufacture of Loom Picking Bands or Straps, (for which I have obtained a patent in Great Britain, No. 10,348, dated June 18, 1891; in France, No. 220,376, dated March 24, 1892; in Belgium, No. 98,942, dated March 24, 1892; in Germany, No. 66,172, dated June 1, 1892; in Switzerland, No. 5,048, dated April 5, 1892, and in Canada, No. 60,382, filed June 13, 1892,) of which the following is a specification.

This invention relates to an apparatus for the manufacture of loom picking bands or straps and has for its object to render such bands or straps splashless and more durable. In order to give the same the required pliability and strength, heretofore it has been customary to curry the leather with a mixture of tallow and cod, or tallow and cod oil applied in a cold and pasty state, which mixture will not set sufficiently in the leather and thus cause the picking band or strap, when in operation, to splash the fabric woven, which is a great evil as it damages the same considerably. In order to remedy this defect I treat the leather by suspending it a desired length of time in tallow or other soluble fatty matter, dissolved by means of heat. I attain this object by the means illustrated in the accompanying drawings, in which—

Figure 1 is a cross section; Fig. 2 a longitudinal section of a portion, and Fig. 3 a plan of Fig. 1, of an apparatus for treating leather for picking bands or straps according to my invention. Fig. 4 is a detached view showing a modification thereof.

Similar letters refer to similar parts throughout the several views.

In carrying out my invention and referring to Figs. 1, 2 and 3, the apparatus I use to impregnate the leather *a* with tallow or other soluble fatty matter, consists of a chamber *a'* of

suitable size and material, say wood, suitably secured together, liquid tight and subdivided in a number of smaller chambers *b* and *b'*. Each alternate chamber *b*, which I term treating chambers, is charged with consistent tallow or other fatty matter and adapted to receive the leather *a* to be impregnated thereby, while the intervenient chambers or spaces *b'* serve for the reception of the heating medium. As such, I employ water heated by steam, or hot water pipes *c*, arranged below the chambers *b* and *b'*, as shown in Figs. 1, 2 and 3, or also in the intervenient chambers or spaces *b'*, as shown in Fig. 4, as may be found most convenient and will insure a uniform heating of the treating chambers *b* and contents.

The treating chambers *b*, which I preferably form of metal, are supported in the chamber *a'* by means of rails *e*, a short space *f* being left below the same in which is employed the heating medium or pipe *c*.

The leather *a* to be treated I suspend in the treating chambers *b* in sheets, by means of hooks *g* placed onto the sides of the chamber *a'*, or otherwise as may be found most convenient, and the leather if deemed necessary may be covered as shown in dotted lines.

What I claim as my invention, and desire to secure by Letters Patent, is—

An apparatus for treating leather for the manufacture of loom picking bands or straps, consisting of a stationary chamber *a'*, subdivided into a number of stationary treating and heating chambers *b, b'*, with a space *f* below the same, the chambers *b* being adapted to receive the tallow or other fatty matter and the leather *a* to be treated therein, which is suspended in the said fatty matter, and the chambers *b'* and space *f*, containing water heated by means of steam or hot air pipes, substantially as and for the purpose set forth.

THOMAS CLARKE.

Witnesses:

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