

(No Model.)

J. B. STAMOUR.
ROLLER FOR LOOM TEMPLES.

No. 255,689.

Patented Mar. 28, 1882.

FIG. 1.

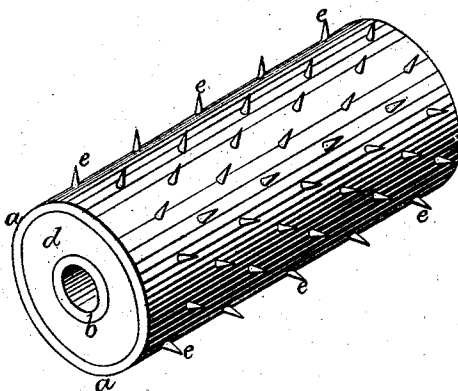


FIG. 5.

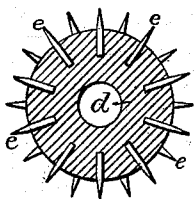


FIG. 6.

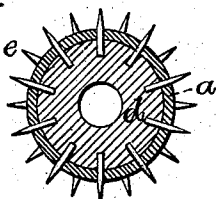


FIG. 2.

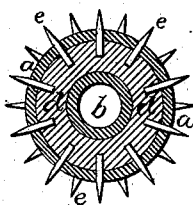


FIG. 3.

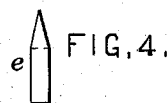
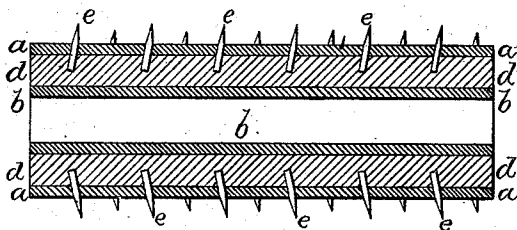


FIG. 4.

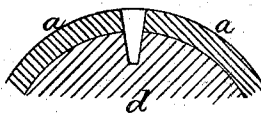
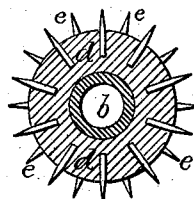


FIG. 7.



WITNESSES

James T. Tobin,
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by his Attorneys
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UNITED STATES PATENT OFFICE.

JOHN B. STAMOUR, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO THOS. CUNNINGHAM, HORATIO B. LINCOLN, FRANK P. PENDLETON, GEORGE BROWN, LUCIAN BROWN, AND HERMAN E. CUNNINGHAM, OF SAME PLACE.

ROLLER FOR LOOM-TEMPLES.

SPECIFICATION forming part of Letters Patent No. 255,689, dated March 28, 1882.

Application filed May 10, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. STAMOUR, a subject of the Queen of Great Britain and Ireland, residing in Philadelphia, Pennsylvania, have invented an Improved Roller for Loom-Temples, of which the following is a specification.

The object of my invention is to make a roller for loom-temple which will possess the qualities of strength, lightness, and durability, and in which the pins will be firmly retained; and this object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved roller for loom-temple in the form which I prefer; Fig. 2, a transverse section of the same; Fig. 3, a longitudinal section; Fig. 4, a diagram illustrating one of the features of the invention; and Figs. 5, 6, and 7, views of modified forms of the roller.

The roller shown in Figs. 1, 2, and 3 comprises an outer tube or casing, *a*, a central tube, *b*, an intervening tube, *d*, and pins *e*, which are driven through the outer casing, *a*, and into the tube *d*, as shown in Figs. 2 and 3. The tubes *a* and *b* are made of metal; but the tube *d*, I make of the substance known as "vulcanized fiber," as I have found that this substance takes a very firm hold of the pins *e*, and possesses the desirable qualities of lightness, toughness, and durability. The substance, moreover, is not affected by moisture or by extremes of temperature to such an extent as to cause it to split or to expand and contract sufficiently to injure the tubes *a* and *b*, or interfere with the proper hold of said tubes on the tube *d* or of the latter upon the pins *e*. Before driving the pins *e* into the roller, openings are made in the same for the reception of the shanks of said pins, and these openings I prefer to make of the character shown in Fig. 4, on reference to which it will be observed that that portion of the opening which is in the casing *a* is slightly larger than the shank of the pin, while that portion of the opening which is in the tube *d* is slightly less than said shank.

The pins can be readily driven into an open-

ing of this shape, as no obstacle is presented to the free passage of the shank of the pin through the metal casing. The diminution in the size of that portion of the opening which is within the tube *d*, however, insures the firm gripping of the shank of the pin by the vulcanized fiber of which said tube is composed, so that the pin is securely retained in its proper position.

That portion of the opening which is within the casing *a* may be just equal in diameter to the shank of the pin, instead of being larger than the same; but the latter plan is the most desirable one.

The outer tube or casing, *a*, imparts to the roller a neat appearance and presents a good wearing-surface, and the inner tube, *b*, which is adapted to the pin of the temple, provides a bearing which, when worn, can be readily removed and replaced by a new one, thus obviating the necessity of furnishing an entirely new roller when the bearing becomes worn. The use of the casing *a* and tube *b*, however, are not essential to my invention, as a serviceable roller may be made of the vulcanized fiber alone, as in Fig. 5; or the roller may have the outer casing only, as in Fig. 6, or the inner tube only, as in Fig. 7. It is preferable, however, for the reasons above set forth, to construct the roller as shown in Figs. 1, 2, and 3.

I do not desire to claim broadly a temple-roller consisting of an outer casing of metal, an inner core of other material, and pins driven through the casing and into the core, as such rollers have been proposed prior to my invention; but

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

A temple-roller having a core or body of vulcanized fiber, into openings in which the pins are driven, and by which said pins are retained, as set forth.

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

JOHN B. STAMOUR.

Witnesses:

JAMES F. TOBIN,
HARRY SMITH.