

N. I. ALLEN.
Loom-Temple.

No. 223,976.

Patented Feb. 3, 1880.

Fig:1.

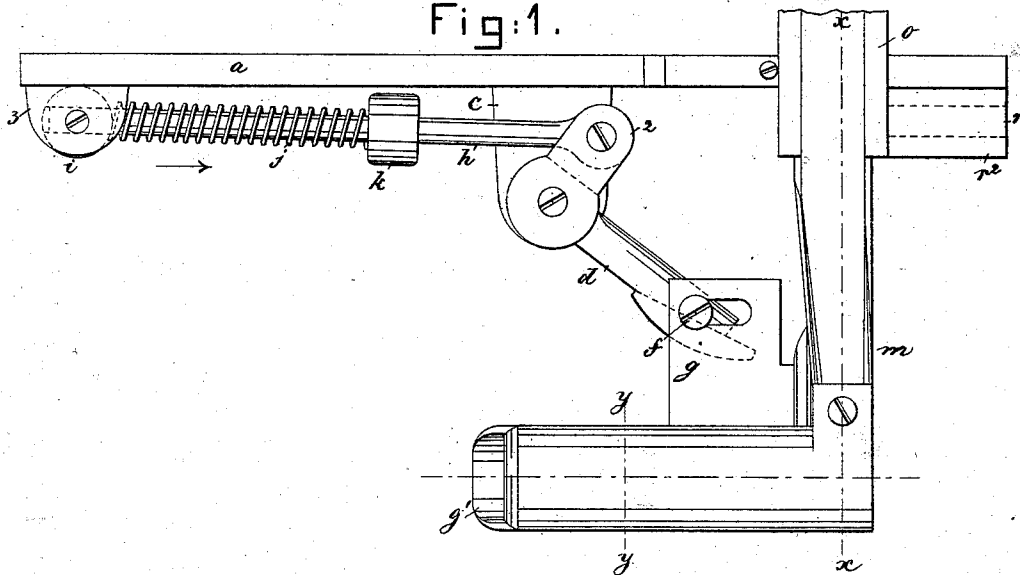


Fig:2.

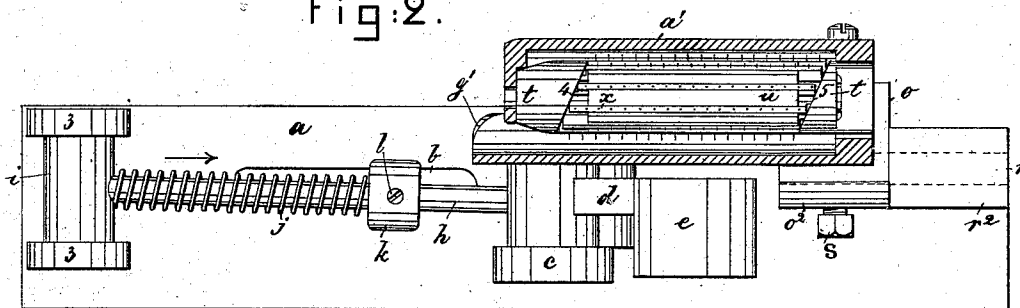
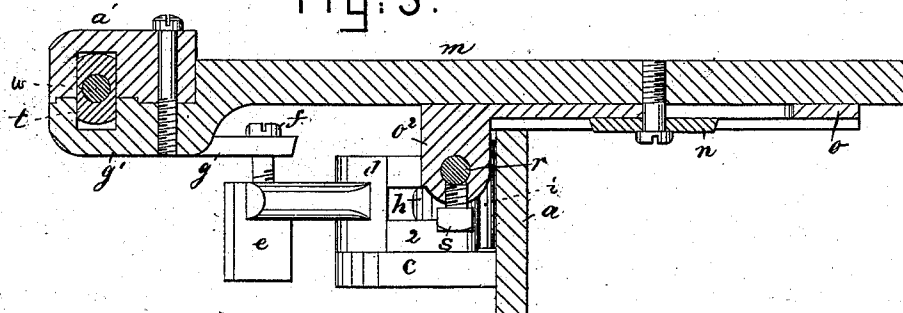


Fig:3.



Witnesses.

L. J. Connor.
N. E. Whitney.

Inventor.

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by Crosby & Gregory Attys.

UNITED STATES PATENT OFFICE.

NICHOLAS I. ALLEN, OF SOMERVILLE, ASSIGNOR TO WM. F. DRAPER, OF
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LOOM-TEMPLE.

SPECIFICATION forming part of Letters Patent No. 223,976, dated February 3, 1880.

Application filed August 11, 1879.

To all whom it may concern:

Be it known that I, NICHOLAS I. ALLEN, of Somerville, county of Middlesex, State of Massachusetts, have invented an Improvement in Loom-Temples, of which the following description, in connection with the accompanying drawings, is a specification.

This invention relates to loom-temple; and it consists in the combination, with a reciprocatory temple-bar and an elbow-lever loosely connected therewith, of a spring-controlled link attached to the opposite end of the lever to throw the temple-bar forward.

Figure 1 is a top view of part of a loom-temple and stand and bar containing my invention; Fig. 2, a front view, the cap and trough being in section; and Fig. 3, a section on the line $x x$, Fig. 1.

The temple-plate a , suitably slotted, as at b , for purposes of adjustment, is to be secured to the rear of the breast-beam of the loom facing the lay. This plate has a lug, c , upon which is pivoted the elbow-lever d , having an attached heel, e , the said lever being, near its heel part, connected loosely by a screw, f , extended, as herein shown, into a slot made in an ear, g , of the temple-trough g' . The other end, 2, of the lever d is connected with a link, h , extended into or guided by a pivoted guide, i , held by the ears 3 of the plate a . A spiral spring, j , surrounding this link or rod h , and made adjustable as to its pressure by a block, k , and set-screw l , exerts a tendency to press the said rod in the direction of the arrow, which keeps the temple-roller forward to the cloth-making point.

The forward position of the temple-bar m is regulated by the adjustable block n , attached to it, and placed within a groove at the under side of the temple-stand o , as in Fig. 3.

The temple-stand o has, at its front end, an eye-piece or bored lug, o^2 , to fit upon a horizontal stud, r , (shown also in dotted lines,) substantially parallel with the breast-beam, the said stand being adjustably connected with the said stud by an adjusting or set screw, s , to thereby enable the temple-roller at the end of the reciprocatory temple-bar in the said

stand to be adjusted to the proper height with relation to the race of the lay. The stud r is held in the ear r^2 , attached to plate a .

The temple-roller is composed of hollow end blocks, t , having inclined faces 4 5, of a shell or sleeve, u , provided with a series of parallel grooves, a central rod, w , and of a series of toother bars, x , placed in the said grooves, the ends of the said bars being shouldered to extend under the edges of the hollow end blocks, t , the said blocks, during the rotation of the shell u on the rod w , by the action of the cloth in engagement with the pins, moving the said toothed bars longitudinally in a positive manner to stretch the cloth impaled upon the pins in the direction of its width, quite close to the cloth-making point, where the said roller is constantly maintained by the action of the sliding bar and the spring j . This temple-roller, not by itself herein claimed, is fitted to turn between the trough and a cap part, a' , suitably attached to and so as to move with the temple-bar.

The lay strikes the heel and moves the temple-bar backward as the filling is beat up by the reed, and the cloth runs between the temple-roller and trough, thereby enabling the cloth to be kept down near the race-board, whereas in most other temple-rollers having teeth moving longitudinally with relation to the roller the cloth has been passed over the roller, and provision was not made whereby the cloth could be passed under them.

I claim—

A temple-holding plate, a temple-stand, and reciprocatory temple-bar, combined with an elbow-lever connected at one end loosely with the bar, or a part thereof, and a link and spring to actuate the lever and press the temple-bar forward, substantially as described.

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

NICHOLAS I. ALLEN.

Witnesses:

G. W. GREGORY,
N. E. WHITNEY.