(No Model.)

# W. H. TAYLOR.

## LOOM TEMPLE.

No. 383,501. Patented May 29, 1888.

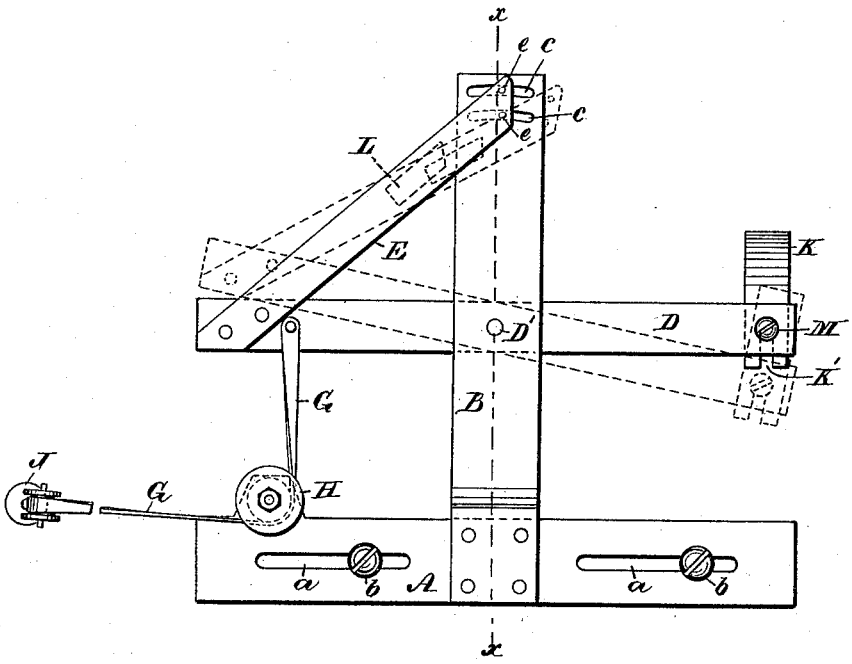


Fig. 1.

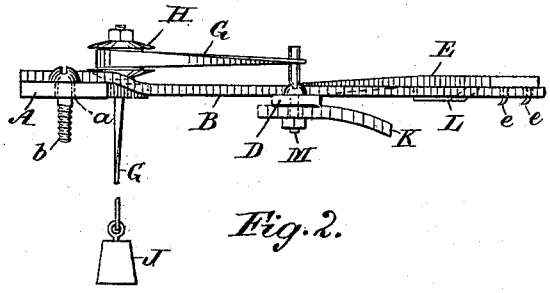


Fig. 2.

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# UNITED STATES PATENT OFFICE.

WILLIAM HARLEY TAYLOR, OF HAMPTON, ONTARIO, CANADA.

## LOOM-TEMPLE.

SPECIFICATION forming part of Letters Patent No. 383,501, dated May 29, 1888.

Application filed February 13, 1888. Serial No. 263,899. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HARLEY TAYLOR, of Hampton, in the county of Durham, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Loom-Temples; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a top view of my improved loom-temple, and Fig. 2 is a side elevation of the same.

My invention has for its object to construct a loom-temple which shall not interfere with the shuttle, work on all kinds of cloth, be effective in operation, simple in construction, and not costly to manufacture.

My invention consists of a loom-temple having a tilting bar pivoted to an inverted-T-shaped frame attachable to the breast-beam of a loom, said bar pivoted at one end to one end of a flat spring provided with teeth at the free end to hook at intervals into the selvage of the cloth when the bar is tilted in one direction, to stretch the cloth when the reed beats the weft up to the web, and be released to take a new grip by tilting the bar in the opposite direction when struck by the race-bar of the loom, as hereinafter set forth.

The main frame of the temple is an inverted-T shape, and consists of a flat bar, A, provided with longitudinal slots *a a*, to secure it longitudinally to the breast-beam of a loom by screws *b b*, whereby the temple may be adjusted to suit the width of the cloth.

To the middle of bar A, at right angles thereto, is rigidly secured one end of a flat bar, B, which extends in the direction toward the lay, and the other end is provided with one or more transverse slots, *c c*, through which project the temple-teeth.

The selvage of the cloth runs lengthwise upon the inner half of bar B, longitudinally, and partly covers the slots *c c*, the position of the outer edge of the selvage being shown by dotted line X X, Fig. 1.

D is a flat tilting bar transversely pivoted by pin D′ to bar B, at or about mid-length of both bars.

E is a flat spring secured at one end to one end of bar D and diagonally thereto. The free end of the spring is provided with teeth *e*, which enter the selvage by the downward tension of the spring, to pull the cloth when bar D is tilted by a gravitating weight, J, attached to a cord, G, which is secured to one end of bar D, and passes around a pulley, H, on bar A, or arranged in some similar manner; or a spiral spring or other suitable means may be employed to tilt bar D in the direction to stretch the cloth before being wound on the cloth-beam of a loom. The opposite end of tilting bar D is provided with a striker-plate, K, which is provided with a longitudinal slot, K′, and is secured to bar D by a bolt, M, whereby the striker-plate can thus be adjusted to project more or less in advance of the bar, to receive the stroke of the race-bar of the loom, and thereby tilt said bar D in the opposite direction to that in which it is pulled by the gravitating weight J.

The under side of spring E is provided with an inclined plane, L, which rises on bar B, when bar D is tilted by the race-bar and lifts the free end of spring E, whereby the teeth will be removed from the selvage to allow the cloth to be wound on the cloth-beam. When the race-bar of the loom is clear of striker K, bar D is drawn back by the gravitation of the weight J, attached to cord G, and the downward tension of the spring will force the teeth into the selvage simultaneously with the descent of the weight, thus tightening or stretching the cloth.

I claim as my invention—

1. The combination, with the T-shaped frame composed of bars A and B, of the tilting bar D, spring E, having teeth *e* and inclined plane L, and a cord and gravitating weight, J, as and for the purpose set forth.

2. A loom-temple consisting of a bar, A, having longitudinal slots *a a*, bar B, secured at one end to the middle of bar A transversely, and provided with slots *c c* near the opposite end, tilting bar D, pivoted to bar B, and provided with an adjustable striker-plate, K, at one end, and spring E at the other end, said spring provided with teeth *e*, and inclined plane L, as set forth.

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Witnesses:

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