(12) **United States Patent**
Curtis

(10) **Patent No.: X4149**
(45) **Date of Patent: Jun. 16, 1825**

(54) **LOOM TEMPLES**

(76) Inventor: **Philo C. Curtis**

Philo C. Curtis
Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Philo C. Curtis himself of his improvement being machinery for crimping cloth. The construction of the above specified temples is as follows. I form two wheels, one of which is constructed with moveable arms that can rise and fall as much as is necessary to allow a spur that is placed in the underside of the arm near the centre to take hold of the cloth after the end of the arm has passed over the selvage. This wheel lies in an inclining position directly over a fixed arm wheel which lies horizontally under the selvage of the cloth, and projects enough beyond to receive the end of the moveable arms which are kept from falling into it by the cloth while they pass over the selvage. after which they are raised and work together, similar to cog wheels. the cloth resting upon the lower wheel prevents its escaping from the spurs on the arms of the upper wheel. the periphery of the fixed arm wheel below the arms is formed into a ratchet wheel for the purpose of turning the temples as fast as is necessary without injury to the selvage. the wheels are suspended in their proper position by means of an iron spindle about 3 inch square, near one edge of which there is a round shaft that suspends the lower wheel near the opposite edge there is a plate that rises over the lower wheel and suspends the upper one. the spindle is bolted on to a small bar of wood or iron that is made fast to the breast beam between the breast beam and lathe. which is sufficiently elastic to allow the temples to move as much as is necessary. to govern the spring of the cloth there is a connection from the temples to the lathe by means of a strap cord

of wire in such a manner that when the cattle is drawn back the temples will always stand the same distance from it; but as it moves forward, the temples are allowed to move with the cloth so that when it is necessary for the temples to turn, the cloth will carry them sufficiently back for the hand which is made fast to the breast beam to take a notch in the ratchet wheel; then as the cattle is drawn back it carrys the centre of the wheels towards it while the edge is held fast, which causes them to move forward on the selvage without injury to it: the size of the wheels and number of arms may be varied: the size best calculated for common use is about 3 inches in diameter with 20 arms: the body of the top wheel should be about 1 inch and 5 eighths in diameter and three fourths of an inch thick: this wheel has a groove for each arm running towards the centre, and nearly to it on the upper side, and about one fourth of an inch towards it on the under side; the arms are made with a knife on one end; the other end is filled into the groove of the wheel so as to move easy. these arms have a small hole through the end that goes in the groove through which there is a wire pin passed that is sunk in the upper side of the wheel to keep the arms in their proper places.

In order to set these temples to work it is necessary to have two sets of wheels, one set for each selvage, they should be placed as near the cloth as they can be, without interfering with it. what I claim as my invention or discovery in the above specified temples, consists in the construction of a moveable arm wheel with spurs, that are properly adjusted in the selvage by the arms as the wheel turns on its axis; likewise a male wheel calculated to support the selvage and serve as a ratchet wheel to move them both by the power of the cattle together with the

matter

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method for moving rotary bumpers by means of a ratchet wheel with a pall or hand acting on it and a connection with the Cattle

Witnesses
Peter Curtis
William Pratt

Silas C. Curtis

Recd.
1849

DRAFTSMAN'S DIVISION.

All communications should be addressed to "The Commissioner of Patents, Washington, D. C."

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DEPARTMENT OF THE INTERIOR,

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SIR:

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As soon as printed a copy will be mailed you to complete your order.

By direction of the Commissioner:

Very respectfully,

Chief Clerk.

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