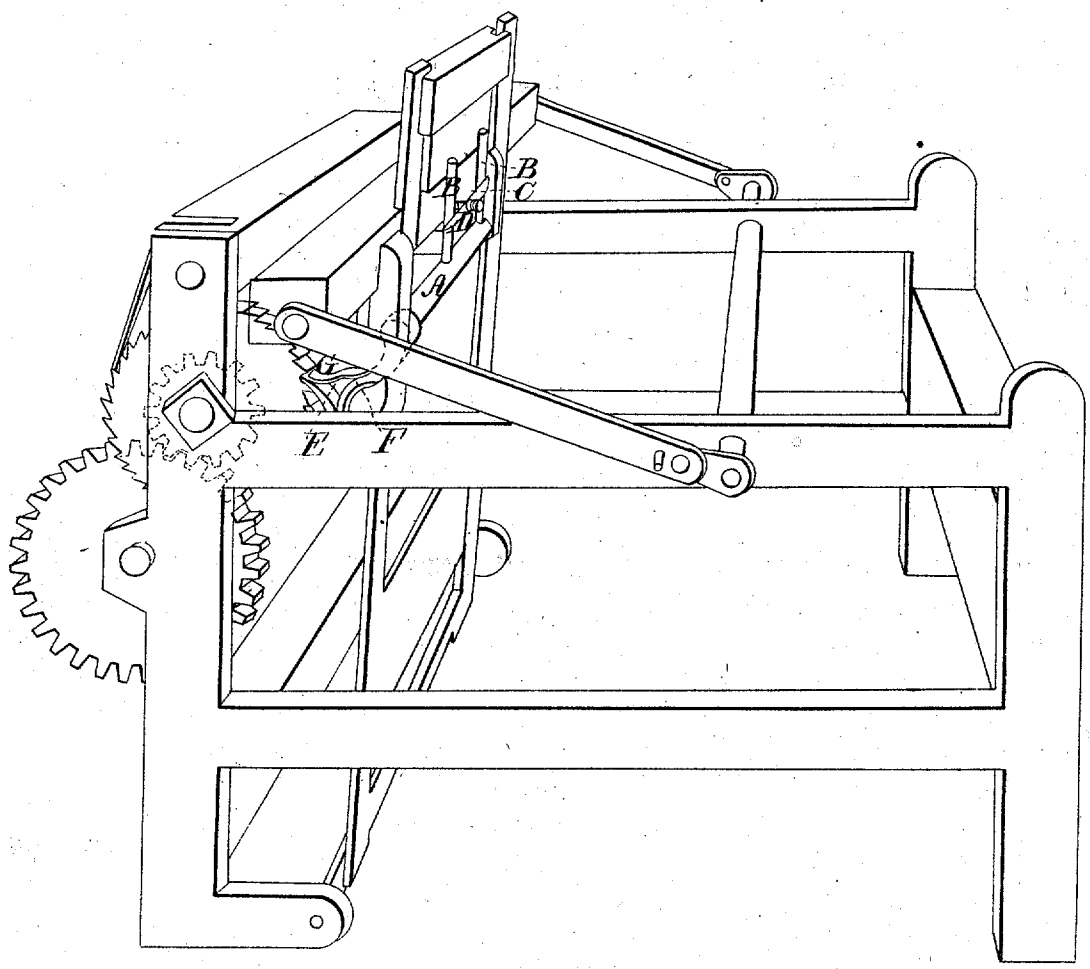
9719X

C. Whipple.
Reed for Loom.

Patented Jun. 11, 1836.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

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Cullen Whipple. (Patented 11 June 1836.)

The Schedule referred to in these Letters Patent, and making part of the same, containing a description in the words of the said Cullen Whipple himself of his improvement in the Take up Rod for Weaving Looms.

Be it known that I Cullen Whipple of the town of Douglas in the County of Worcester and State of Massachusetts, have invented a new and useful improvement in the common looms called "Whipple improved take up rod" which is described as follows, reference being had to the annexed drawings of the same making part of this Specification.

Plate a common power loom and remove all the apparatus for taking up the cloth & winding the cloth beam. The ratchet wheel, which is usually placed below the cloth beam. Place above it to bring it in contact with the catch hereafter described. The Rod is held in a strong frame on bearings at the top. The loom is in other respects the same as that which is used generally. My improvement consists of a cord A which is placed on the back side of the lathe about three inches below the lower edge of the reed, hung on the bearings at each end, Upon this rod are two or more arms B.B. or levers, which bear on the back of the reed frame; the bearing of which arms is regulated by a flat spring C, passing from one arm to the other, and held in the centre by a bolt D in the lathe; which bolt is screw'd in or out to regulate the thickness of the cloth at pleasure, the rod below described has in addition to the levers a spring catch E attached in a lever F on one end of the rod. A small spring G presses upon the catch. This catch is calculated to play on to the teeth of the ratchet wheel and turns it with the cloth beam for winding up the cloth. This rod may be applied either on the back or on the front of the Lathe, or on the breast beams but I prefer the back side of the Lathe, as it can be placed there to greater advantage than in either of the other places. The great object sought from the use of this rod is to keep the reed parallel, and secure its power throughout its whole length the motion from the reed frame having been hitherto taken from one end.

The mode of obtaining the whole power of the reed by the machinery before described, forms the distinguishing feature of my improvement. In operating a Loom with my take up rod the catch upon the ends of the rod is adjusted to come in contact with the ratchet wheel in a line with their centre. The catch when the filling is run out, only touches so far in contact as barely to touch it, but does not move the ratchet wheel. When the filling comes it

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reed to swing it will vibrate the rod and move the ratchet wheel at the same winding up the cloth, and will continue to take up as long as the reed swings the required distance. There being no weight of metal of any consequence the motion of the reed perfectly governs the catch on the ratchet wheel, making the cloth more even, especially when thin cloth, than any other method.

What I claim as my invention, and which I desire to secure by Letters Patent consists in the before described combination of machinery for taking up the cloth in weaving, whether constructed in the precise manner above described, or in any other containing the same principle as herein set forth; particularly the rolling rod or lever with the roller rod or lever purchase acting on the ratchet wheel connected to the end of the cloth beam

Witnesses
Jonathan Sprague
Lyman Parsons

Cullen Whipple

Copy rec'd. 11/16.

(660 words)

Drawing