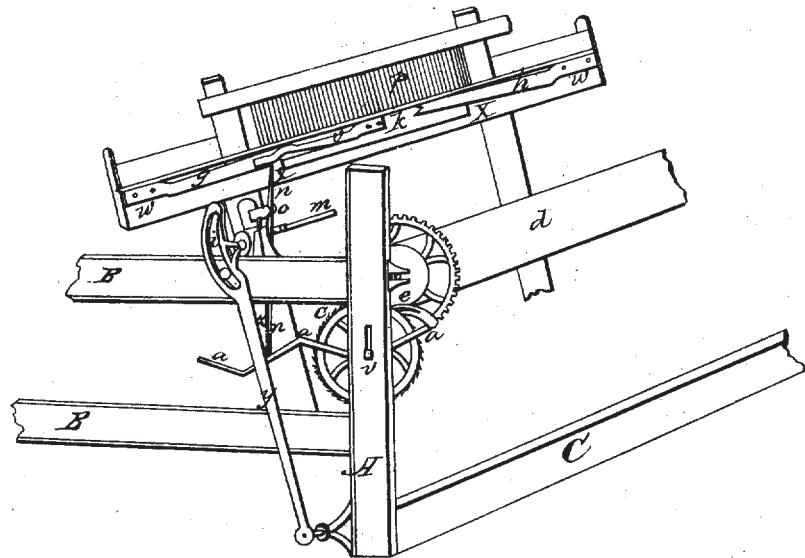


8964X

O. C. BURR
Loom.

Patented July 17, 1835.



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July 17, 1835

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Oliver C. Burr. July 17, 1835

The Schedule referred to in these Letters Patent and
making part of the same, containing a description, in
the words of the said Oliver C. Burr himself of his improve-
ment in the construction of Looms.

To all people to whom these Presents shall come,
Be it known that I Oliver C. Burr of Milbury in the
County of Worcester and Commonwealth of Massachusetts
mechanic have invented constructed and applied to use
a new and valuable improvement in the construction of
Looms, and that the following is a full and exact descrip-
tion of the construction and operation of the same, as invented
or improved by me. Manufacturers have experienced great
inconvenience in regulating the motion of the beam in the
loom upon which the cloth as it is wove is wound;
many attempts have been made to remedy this evil &
while for the most part they have totally failed of accom-
plishing the desired object. The few that have succeeded have
been attended with so much expense, as to prevent their com-
ing into general use. The improvement I have made is such
that it can be added to the common loom and at a
very trifling cost, and completely accomplishes the object
which has so long been desired; for by my plan the cloth
beam which hitherto wound up the cloth only at inter-
vals after several threads of filling had been added, winds
at each flight of the shuttle, and thus winds up the cloth
as fast as it is wove. The beam winds as each single thread
of filling is added. This gives the cloth a uniform thick-
ness and effectually prevents all unevenness in the texture
of it. In addition to this advantage there is another effect-
ed by my improvement, which is equally important, which
is that when the thread of the bobbin or spool either breaks
or is cut although the beam may continue in motion

The cloth beam is stationary, because the motion of this depends upon the filling — Explanation of the machine,
 at. B. B. C. part of the frame of a loom at. D. Lathe of
 the loom p. Reed of spring one end confined to the lathe
 at. M. & another spring, i.e. another spring also confined
 to the lathe at one end at. N. — h. a piece of wood ex-
 tending from y. to y. and let into the lathe beam and con-
 fined to its place by means of the springs g. and h. and
 in the operation of the loom is pressed outwardly by the reed
 at each vibration of the lathe, a distance equal to the di-
 ameter of the thread of the filling. m. n. arm or lever
 turning upon a pin or fulcrum at o. the upper end
 of which is between the unconfined ends of the springs
 g. and h. is moved by the piece of wood h. at the
 lower end of the arm or lever is a shark or pin which
 touches the crooked arm ... a. a. a. — a. a. a. arm turning
 on the arbor or shaft of the wheel c. at m. c. ratch wheel
 having a pinion upon its axle which moves the cog wheel b.
 b. cog wheel attached to the cloth beam, c. dogs or levers attached
 to the crooked arm a. a. a. for moving the ratch wheel c. — y
 arm or sweep which vibrates the lathe, i.e. the flat on
 the sweep to receive the end of the crank on the shaft m.
 m. shaft. operation of the machine. — When the loom is
 put in motion, the lathe w. w. by means of the crank upon
 the arbor m. moving in the irregular flat i. is carried
 back, the thread of filling by means of the reed p. was con-
 fined back at the same time, the lower side of the reed p.
 being confined only by the piece of wood h. which is move-
 able, was pulled outwardly when the lathe fell back in con-
 sequence of addition of a thread of the filling, the pressure of the
 piece of wood h. outward was very small equaling only the
 diameter of thread of filling (But this communicated a cor-
 responding motion to the arm m. m. and the shark or pin).

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resting upon the crooked arm a. a. a. goes motion without
else, and by means of the dogs or hands and ratch wheel c. &
pinion before its axis. The cloth beam d. was moved, thus
resting upon the cloth beam the very small piece of cloth
made by the addition of the thread of filling. The spring
g. and h. press the need by means of h. back to its place.
By changing the position of the pin or fulcrum of the arm
m. m. which is at o. the texture of the cloth may be altered.
It may be made thick or thin at pleasure and the warp
slackened or strained according to the strength of the yarn.
The motion of the arm or lever m. m. by which the cloth
beam is turned, may be communicated as well from the
lathe beam or sweep v. v. as from the need p. of all. I claim
as my invention is the motion communicated to the cloth beam
beam by means of the arm or lever m. m. In witness whereof I have
hereunto set my hand this twenty three day of May 1835
May in the year of our Lord one thousand eight hundred and
sixty five

Examin

Olive C. Burr C. Wm
H. S.

Witnesses

T. T. Hannawalt

Peter Wilson

Christopher Columbus Baldwin

924 v. D

(Drawing)