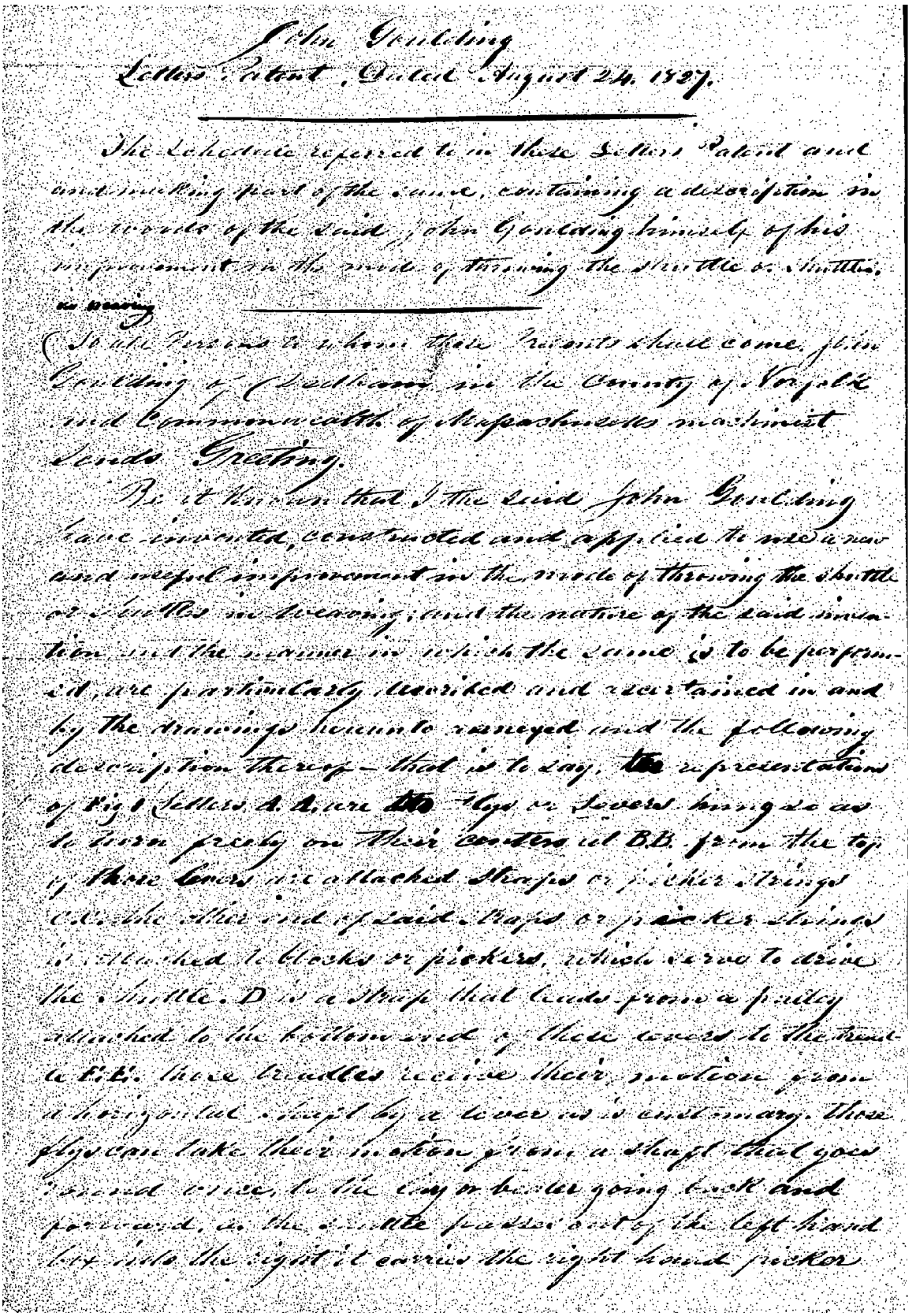
(12) **United States Patent**
Goulding

(10) **Patent No.:** **X4860**
(45) **Date of Patent:** **Aug. 24, 1827**

(54) **LOOM SHUTTLES, MODE OF THROWING**

(76) Inventor: **John Goulding**



John Goulding
Letters Patent, Dated August 24. 1827.

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said John Goulding himself of his improvement in the mode of throwing the shuttle or shuttles in weaving

(Seal) To all Persons to whom these Presents shall come, John Goulding of Cochituate in the County of Norfolk and Commonwealth of Massachusetts mechanic sends Greeting.

Be it known that I the said John Goulding have invented, constructed and applied to use a new and useful improvement in the mode of throwing the shuttle or shuttles in weaving; and the nature of the said improvement and the manner in which the same is to be performed, are particularly described and ascertained in and by the drawings hereunto annexed and the following description thereof — that is to say, the representations of Fig 1 Letters A. A. are two Legs or Levers hung as are usually on their centers at B.B. from the top of these Legs are attached Straps or pieces of strings C.C. to the other end of said Straps or pieces of strings is attached a block or picker, which serve to drive the shuttle. D is a strap that leads from a pulley attached to the bottom end of these Levers to the treadle E.E. these treadles receive their motion from a horizontal rock shaft by a lever as is customary. These figures take their motion from a shaft that goes parallel across to the Loom being worked by the left hand but with the right it carries the right hand picker

into the box at the end of the right hand beam
so that when the end of the right hand beam
opens it disengages the shuttle & by the right hand
box into the left hand box by the or more shuttles
remains in the said right hand box &c
that one or more shuttles may pass from
left to right
the left to the right. Those people desiring to weave
each other by means of this invention
is to be made and passed side ways in the box
the reader moves to the right the right hand beam
operates on the right hand shuttle & sends it
the shuttle passes the right to the left & it moves
to the left & so the left hand beam sends the shuttle
again and returns it to the right &c &c
there is but one beam that moves in contact with
a treadle at one time, and this gives an opportunity
to throw as many shuttles from side to side in
succession as may be required -

The side motion to the connecting bar may be
given by a cam or any other method the engineer
may think proper there being two plys of cords
to move to drive the shuttle by the Swing staff
that operates the ply or treadle, provided the ply
is operated by a crank or drag & connecting frame
if more than one shuttle is used the pitches on the
shuttle rod, must be varied both ways traversing
the shuttle moved by a cam, spring or weight
attached to it to give a distance for the shuttle box
to shift and bring another shuttle to throw
across in succession, -

What I claim as new and my improvement
and discovery in the application & use of
throwing a second shuttle &c &c is that each shuttle

[illegible] be operated upon separately in such manner as to give a chance to [illegible] more than one [illegible] in a [illegible] [illegible] [illegible] [illegible] in [illegible].

In testimony that the above is a true specification, of my said improvement as above described and for which I herein claim Letters Patent, I have hereto set my hand and seal the eighteenth day of August in the year of our Lord, one thousand eight hundred and twenty seven.

W. Godfrey
[illegible] Richardson
Wm Ellis

John Conkling

(Received and Recorded [illegible] Feby 14 1844)

J. Goulding.

Shuttle Motion.

Patented Aug. 24, 1827.

Fig. 1

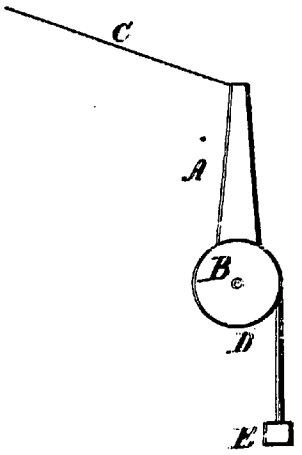


Fig. 1

