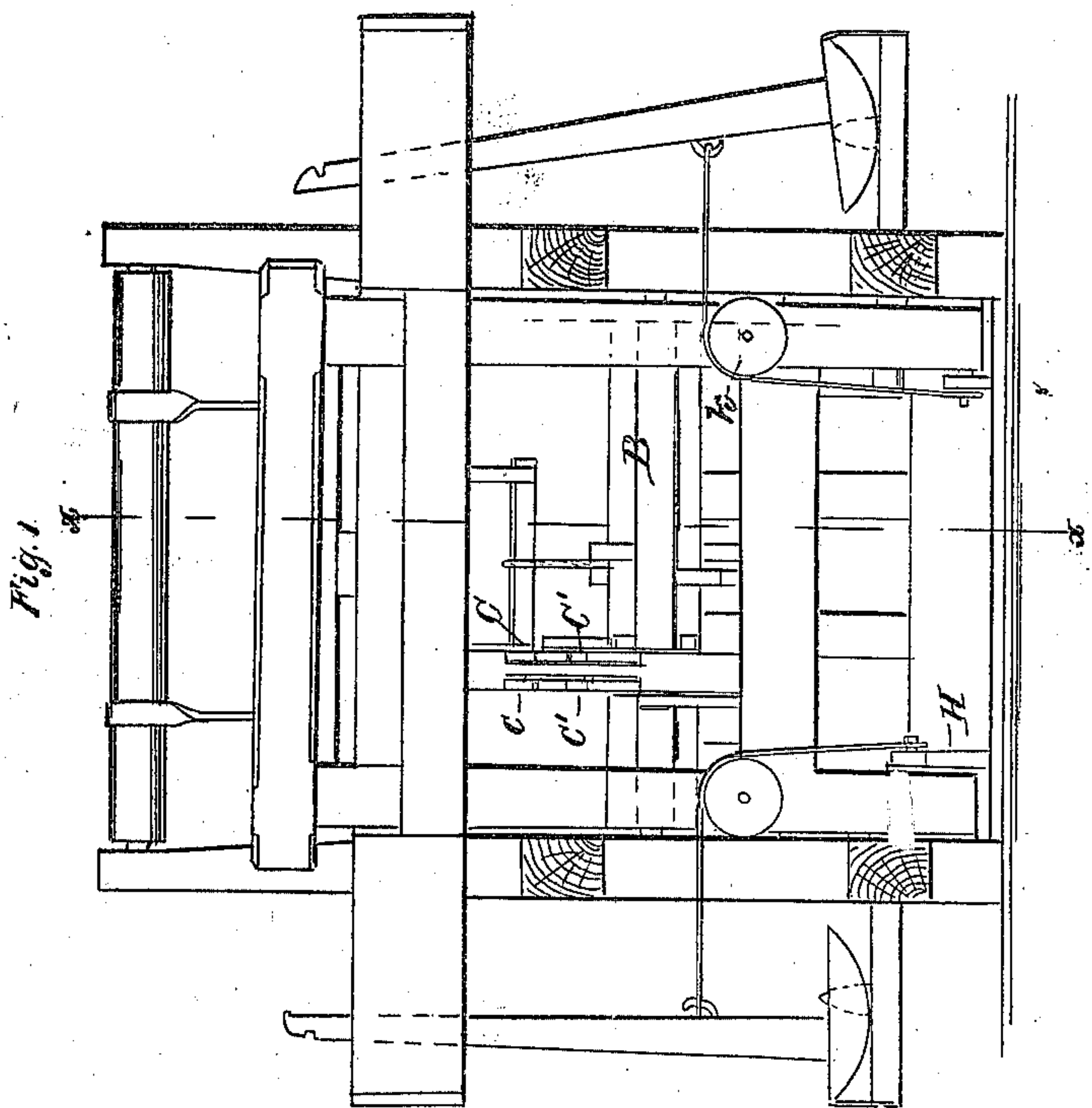
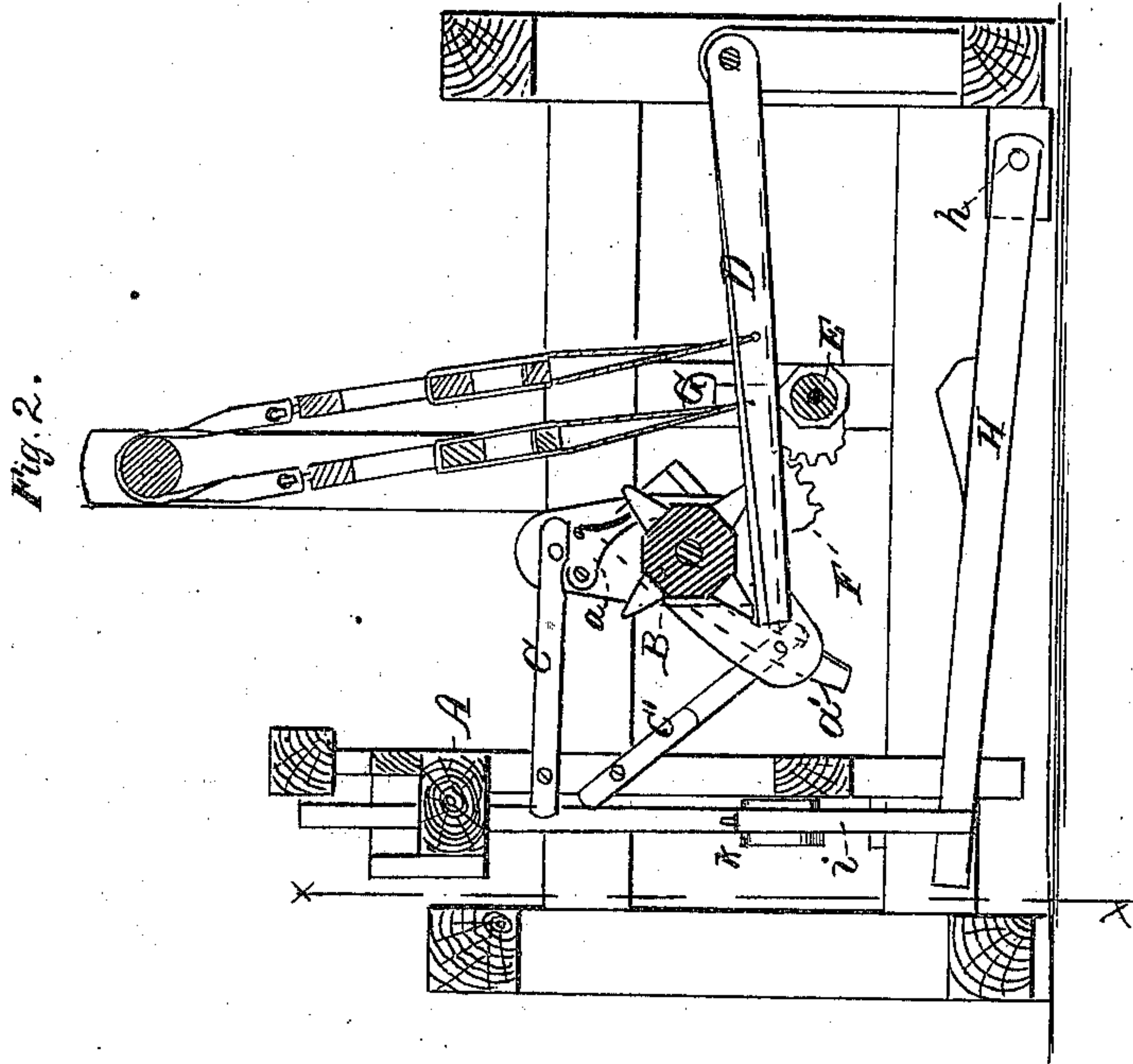


*E. Lowe,*  
*Hand Loom.*

*No. 81,656.*

*Patented Sep. 1. 1868.*



WITNESSES  
*Wm. A. Morgan*  
*Chas. E. Cotton*

INVENTOR  
*Edwin Lowe*  
per *Wm. A. Morgan*  
*Attorney*

# United States Patent Office.

EDWIN LOWE, OF BURROWS, INDIANA.

*Letters Patent No. 81,656, dated September 1, 1868.*

## IMPROVEMENT IN HAND-LOOMS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDWIN LOWE, of Burrows, in the county of Carroll, and State of Indiana, have invented a new and useful Improvement in Hand-Looms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of my improvement is to provide means for operating the treadles and shuttles from the lay.

It consists in connecting to the lay, pawls suitably arranged to give intermittent rotary motion to a tappet-shaft, which in turn operates the treadles and picker-staffs, as will be more fully described on reference to the accompanying drawings, wherein—

Figure 1 represents a front elevation of a loom provided with my improvements, and

Figure 2 represents a vertical longitudinal section on the line *x x* of fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the lay, and B the tappet-shaft; C and C' connecting-rods for actuating the pawls *a* and *a'*, for rotating the shaft B. At each backward movement the pawl *a* communicates a quarter of a revolution, and at each forward movement of the same the pawl *a'* actuates the shaft B a quarter of a revolution. At each quarter revolution, one of the treadles D is actuated by tappets on the shaft B.

Another tappet-shaft, E, is provided, which receives motion from the wheel F on the tappet-shaft B, and is provided with the tappets G for actuating the levers H, pivoted at *h* to the loom-frame, and provided at the opposite ends with belts *i* working over pulley *k*, and actuating the picker-staffs. The staffs may be thrown back by a spring or any other suitable means.

I claim as new, and desire to secure by Letters Patent—

The arrangement, with relation to the treadles D and levers H, of the tappet-shafts B E, connected by gearing, the pawls *a a'* and rods C C', connected to the lay A, all constructed to operate as herein shown and described, for the purpose set forth.

EDWIN LOWE.

Witnesses:

THOMAS LOWE,  
SAMUEL H. LINTAN.