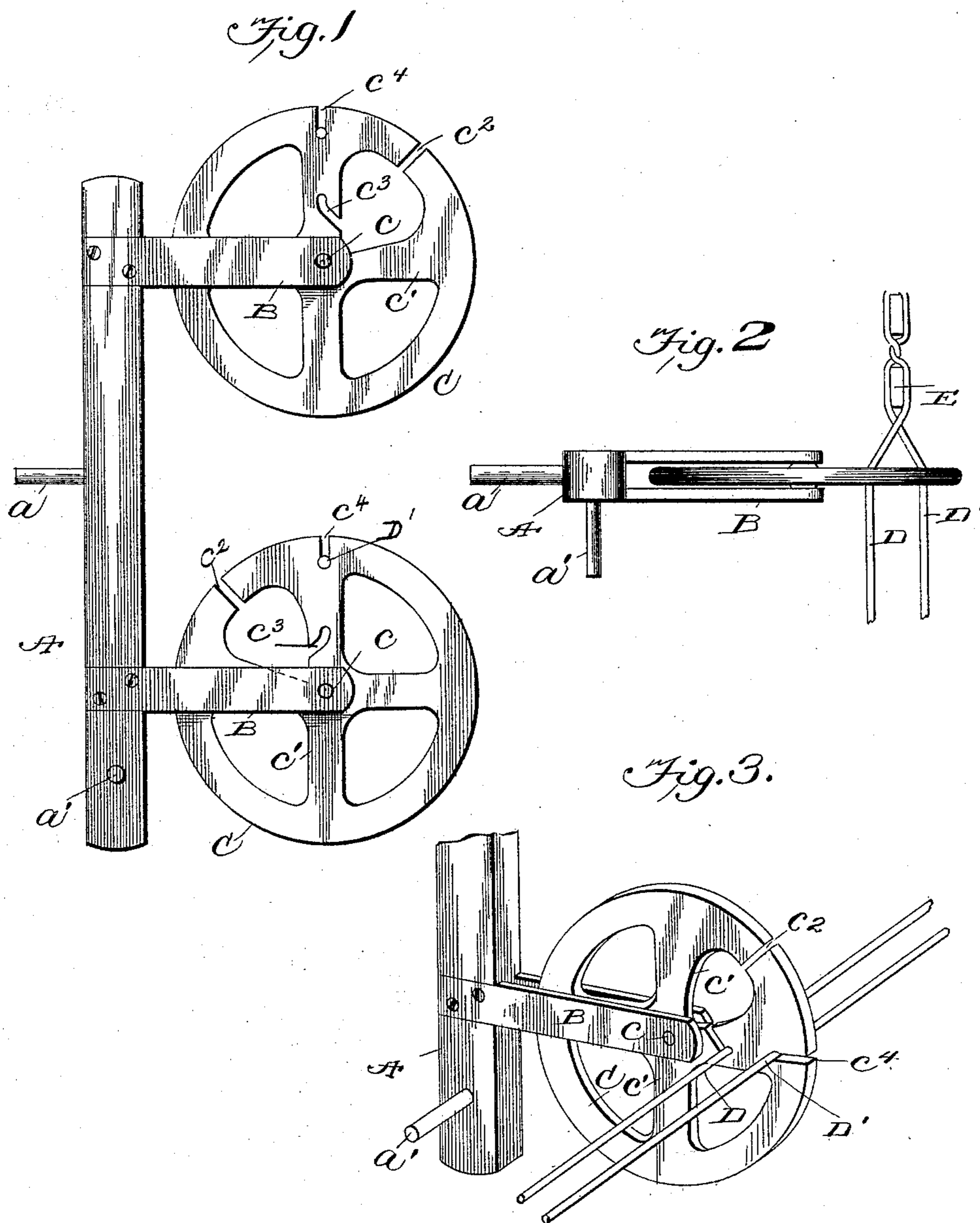


(No Model.)

M. R. YATES.  
FENCE WIRE TWISTER.

No. 476,856.

Patented June 14, 1892.



Witnesses

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# UNITED STATES PATENT OFFICE.

MARCUS REZIN YATES, OF BURROWS, MISSOURI.

## FENCE-WIRE TWISTER.

SPECIFICATION forming part of Letters Patent No. 476,856, dated June 14, 1892.

Application filed February 2, 1892. Serial No. 420,050. (No model.)

*To all whom it may concern:*

Be it known that I, MARCUS REZIN YATES, a citizen of the United States, residing at Burrows, in the county of Bates and State of Missouri, have invented certain new and useful Improvements in Fence-Looms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Figure 1 is a front elevation of this machine. Fig. 2 is a top plan of the machine as in operation. Fig. 3 is a detail in perspective showing the fence-wires in their seat in one of the wheels of the machine.

The object of this invention is to improve the fence-loom as now made and used. In one form of this loom, now somewhat well known in certain parts of the west, there is attached to the frame or body of the loom one or more swinging shuttles of quite complex structure. As each of these is jointed at the end of a piece projecting from the body of the loom there is needed quite a space for their movement and in operation they make a great clatter. There is also difficulty in fixing the wires in the shuttle. My aim in the present device is to make a shuttle that obviates all these disadvantages and objections. The shuttle is preferably wheel-shaped, in which the wire can be readily placed, and the motions of the shuttle are very easy and not at all noisy.

In the accompanying drawings, A denotes the beam or main part of the loom, and  $a'$  the handles, attached to it at convenient points and by which it is operated. Fixed at one side to and projecting from this part are the wheel-supports B. They are in pairs, and between each pair the wheel C is adapted to revolve, being pivoted on the bolt  $c$ , which passes through the outer end of these arms. These wheels are preferably made with spokes  $c'$ , so that the seats for the wire can be more easily formed. Through the periphery of each wheel is a narrow opening  $c^2$ , through which one of the fence-wires D can be passed so as to be brought into the inclined slot  $c^3$  in

one of the spokes, or near the center of the wheel. In the edge of the wheel immediately below this inclined slot is a seat or opening  $c^4$  for the other fence-wire D'. It will thus be noted that there can be no trouble or difficulty in adjusting the wires in their proper positions. There may be two, three, or more of these wheels on each machine. While I show a complete wheel, it is possible to use a semicircle to advantage.

The operation of this machine will be readily understood by all skilled in this line of invention. Two wires from any desired source of supply being placed, respectively, in position in the seats or openings for each in the wheel and the fence-picket E being placed between the parallel wires by rapid up-and-down movement of the loom, the wires are twisted first at one side and then at the opposite side of the picket, and thus the operation is continued with other pickets till the desired length of fence has been made.

What I claim is—

1. In a fence-loom, the combination, with a suitable supporting and actuating device, of the centrally or axially pivoted wheel having a peripheral opening or seat for a wire strand, and an inner opening or seat for a second wire strand, arranged intermediately of said peripheral opening or seat and the pivot or axis of the wheel, substantially as set forth.

2. In a fence-loom, the combination, with a handled beam having projecting therefrom at right angles arms or supports, of the wheels centrally or axially pivoted between said arms or supports and having a peripheral opening or seat for a wire strand and an inner opening or seat for a second wire strand, arranged intermediately of said peripheral opening or seat and the pivot or axis of the wheel, substantially as specified.

3. In a fence-loom, the combination, with a suitable supporting and actuating device, of the centrally or axially pivoted wheel having a peripheral opening or seat for a wire strand and an inner opening or seat for a second wire strand, arranged intermediately of said peripheral opening or seat and the

pivot or axis of the wheel and standing at an  
approximately obtuse angle to the first-named  
opening, said wheel also having a radial or  
peripheral slot therein to provide for the pas-  
5 sage of the wire strand contained or held by  
said inner opening or seat, substantially as  
set forth.

In testimony whereof I affix my signature in  
presence of two witnesses.

MARCUS REZIN YATES.

Witnesses:

EDWARD C. DUCHMAN,  
JAMES C. JETT.