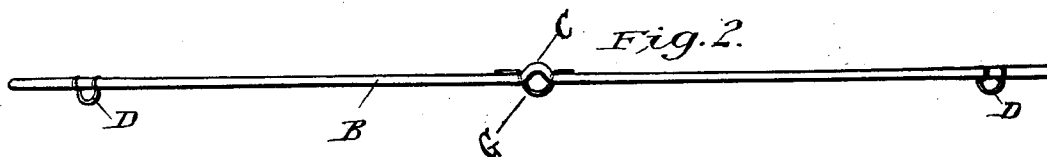
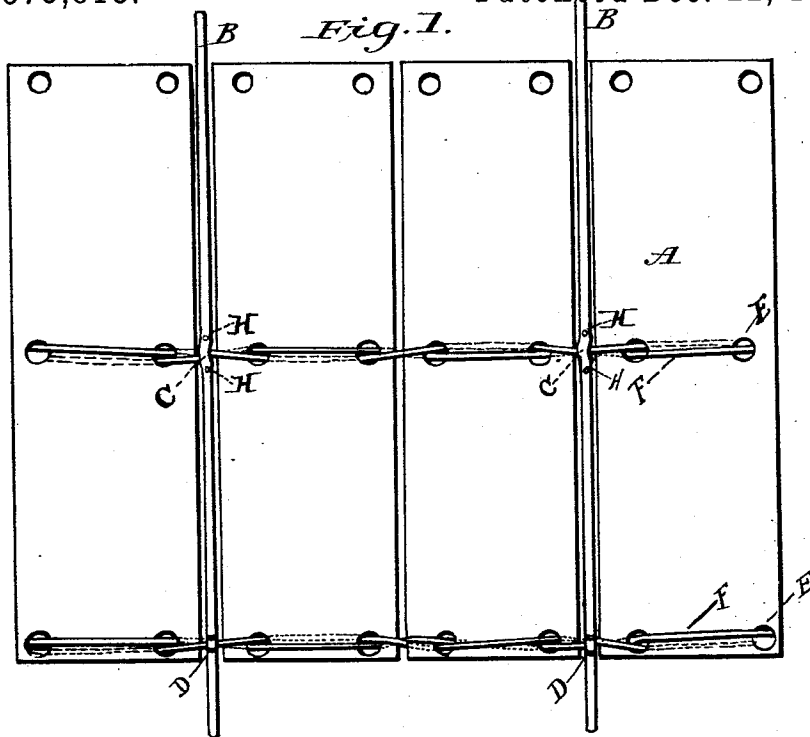


(No Model.)

J. CLEARY & T. M. MILLER.
WIRE ROD FOR JACQUARD CARDS.

No. 573,813.

Patented Dec. 22, 1896.



WITNESSES:

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JAMES CLEARY AND THOMAS M. MILLER, OF PATERSON, NEW JERSEY.

WIRE ROD FOR JACQUARD-CARDS.

SPECIFICATION forming part of Letters Patent No. 573,813, dated December 22, 1896.

Application filed March 31, 1896. Serial No. 585,597. (No model.)

To all whom it may concern:

Be it known that we, JAMES CLEARY and THOMAS M. MILLER, of the city of Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Wire Rods for Jacquard-Cards, of which the following is a specification.

The object of our invention is to provide a jacquard-card wire that will not slip in the working of the cards or shift its position as the cards pass around the card-cylinder and to provide a wire that may be secured by a staple and hook-eyes to the card-laces or by a string or wax end.

Of the wires in use we are not aware of one that is similar to our improved wire. Some have two wire rings soldered on the middle portion, between which the tying-strings are secured, and the wire can only slip the distance between said wire rings. Others have plain straight wires, and some have, in lieu of the two rings soldered on, two flat places where the wire has been flattened, this making two stops, between which the string is tied, and in these the wire may slip the distance between the flat places.

Our invention consists of a wire provided with one or more curves adapted to fit over the card-lacing, permitting the main stem of wire to go between the two adjoining cards, and provided with a small hole on each side of said curves adapted to permit a cord or fine-wire staple to pass through the wire for the purpose of securing it to the card-lacing, and we use two or more wire loops, which pass around the card-laces and which are provided each with two eyes or rings formed at right angles to the main loop portion, which passes around said laces, said eyes being adapted to permit the card-wires to pass through them, the whole constituting a jacquard-card wire and device for securing the same to the cards, which we claim is useful and novel and desire to protect by Letters Patent.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is an illustration of our improved wire and some jacquard-cards laced together, showing the position of the wire between the cards, the curve that fits over the laces, and the holes on each side of the curve, and the

loop-eyes through which the wires pass. Fig. 2 is a view showing the card-wire provided with the curve and a hole passing through the wire on each side of the curve, a staple passing through said holes and adapted to hold the card wire and laces together to prevent the slipping of the wire and showing the wire loop adapted to hold the card wire and laces together, the card wire passing through the eyes or rings on wire loop.

In the drawings, A is the card; B, the card-wire; C, the curve which fits over the lacing between the cards, as many of which may be provided as desired; D, the loops provided with eyes or rings, the loop portion going under the laces and the eyes or rings onto the card-wire, thus locking the wire and lacing together; E, the holes in card through which laces pass. F is the lacing, and G are the staples, which may consist of very fine wire. String or cord, waxed or otherwise, may be used, but we prefer the use of staples. Of course cord might be used without passing it through the holes H H, the curves being tied to the lacing, virtually accomplishing the desired object.

The invention is so simple and so clearly shown in the drawings that we deem it unnecessary to describe it any further.

With this description of our invention, what we claim is—

In a device for preventing the slipping of a jacquard-card wire the combination with the cards, and the laces connecting the same, of a wire rod provided with one or more curved portions adapted to fit over, and to be secured to the laces, and having an opening or hole on each side of said curved portions, a binding-cord passed about the laces and through said holes to secure said rod and laces together, and a number of wire loops provided with eyes or rings formed at right angles to the loop portion, the loop portion adapted to pass under the laces and the eyes or rings on the said rod, so as to lock the said rod and laces together, substantially as shown and described.

JAMES CLEARY.
THOMAS M. MILLER.

Witnesses:

HULDA FORSHAY,
MINNIE FORSHAY.