N. I. ALLEN.

FINGER-BOARDS AND HOLDERS FOR SPINNING-FRAMES, &c.

No. 184,816. Patented Nov. 28, 1876.

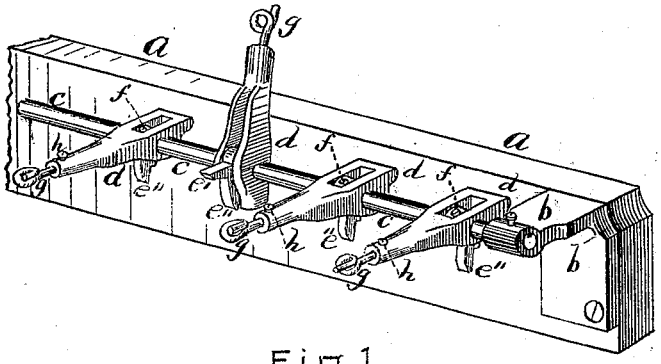

Fig 1

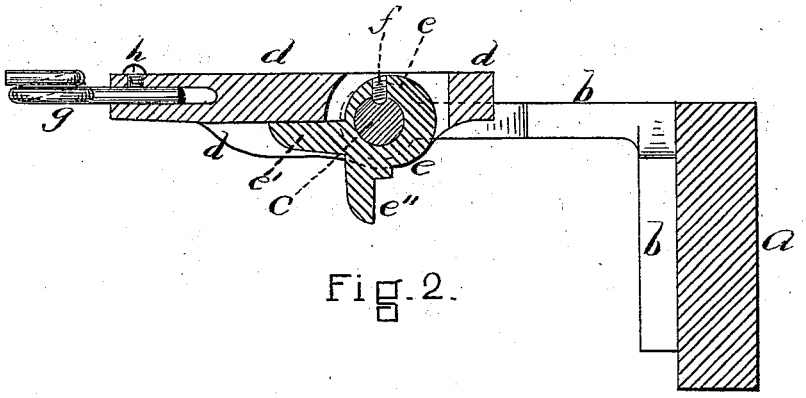

Fig. 2.

WITNESSES

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NICHOLAS I. ALLEN, OF MILFORD, MASSACHUSETTS.

IMPROVEMENT IN FINGER-BOARDS AND HOLDERS FOR SPINNING-FRAMES, &c.

Specification forming part of Letters Patent No. **184,816**, dated November 28, 1876; application filed July 26, 1876.

To all whom it may concern:

Be it known that I, NICHOLAS I. ALLEN, of Milford, in the county of Worcester and State of Massachusetts, have invented a new and Improved Adjustable Finger-Board or Guide-Wire and Holder for Spinning-Frames or Twisters; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the said drawings, Figure 1 is a view, in perspective, of a portion of a roller-beam, showing my improved guide-wire and holder. Fig. 2 is a transverse vertical section of the same, taken longitudinally through one of the holders.

Similar letters of reference indicate corresponding parts.

This invention is an adjustable guide-wire and holder for use in spinning-frames and twisters, and is an improvement upon or substitute for the ordinary finger-board.

a represents the roller-beam, constructed as usual. *c* is a round rod, with or without a longitudinal groove cut in its upper side, and supported by the brackets or supports *b*, extending from the roller-beam *a*. *d d* are the metallic holders, taking the place of the ordinary finger-board, and placed, some distance apart from each other, loosely upon the rod *c*, so that they can be easily raised or dropped. *e e* are slides, one of which is placed in an opening in each metallic holder *d*, and is arranged to slide upon the rod *c*. A screw, *f*, keeps each slide *e* in place. When the holder *d* is in a horizontal position, it rests upon the projection *e'*, which extends from the slide *e*. When the holder is in a perpendicular position it is prevented from falling back by means of the projection *e''*. *g g* are the guide-wires or eyes placed in the metallic holders *d*, and held in place and rendered adjustable by means of the screws *h*.

It will readily be seen that in case the guide-wires and holders need moving, the screw *f* can be loosened and the slides *e* pushed in either direction, thus carrying with them the metallic holders *d*. The eyes or guide-wires can be also easily adjusted in the holders by means of the screws *h*, so as to be placed directly over the spindles. The space which is afforded between the metallic holders *d* allows the waste to drop through instead of collecting upon the finger-board, thus saving a large amount of waste from being twisted in with the yarn while passing from the rollers to the bobbins.

My guide-wires and holders being much cheaper to manufacture than the ordinary finger-board, quite an item of expense is saved in this respect.

A variation of the invention would consist of a metallic holder, *d*, held upon the rod by means of a set-screw, and provided with a joint between the rod and the end of the holder.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of the rod *c* and the slides *e*, provided with projections *e' e''* and screws *f*, with the metallic holders *d* and adjustable guide-wires *g*, placed at proper distances apart, and constructed and operated substantially as herein set forth.

2. In a spinning-frame or twister, the combination, with a roller-beam and rod, substantially as above described, of the series of adjustable guide-wires *g g* and adjustable holders *d d*, all substantially as and for the purpose hereinbefore set forth.

NICHOLAS I. ALLEN.

Witnesses:
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