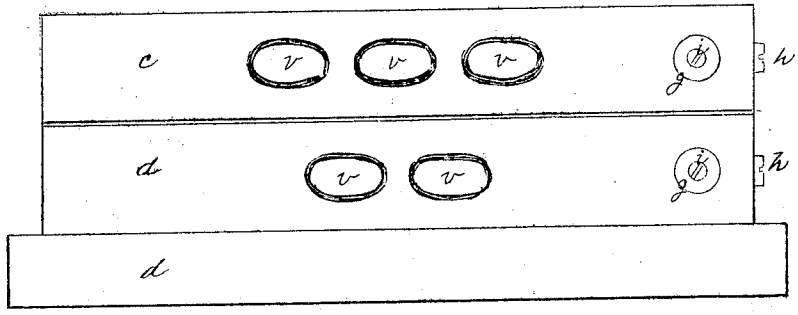
John Bachelder's Adjustable Guide for Carding Machines

73866

Fig 1



PATENTED
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Fig 2.

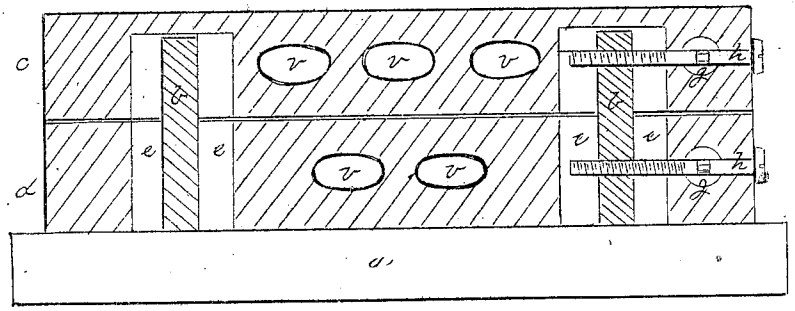
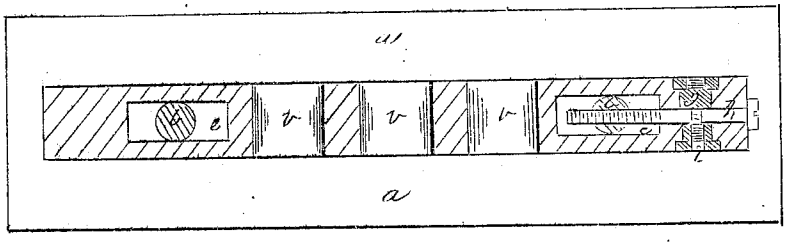


Fig 3.



Scale.. half size of Model

Witnesses
John Bliven
Chas. A. Foreman

John Bachelder
Inventor

United States Patent Office.

JOHN BACHELDER, OF NORWICH, CONNECTICUT.

Letters Patent No. 73,866, *dated January* 28, 1868.

IMPROVEMENT IN GUIDE FOR CARDING-ENGINE.

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

Be it known that I, JOHN BACHELDER, of Norwich, in the county of New London, and State of Connecticut, have invented a new and improved Adjustable Guide for Carding-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the manufacture or use of this class of machinery to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure is a side view of my improved guide, with a supporting-base, *a*, attached for the purpose of exhibition. When attached to carding-machines, the pins or studs *b b* are set in the frame, near each end of the guide-bars, and this base, *a*, is dispensed with.

Figure 2 is a longitudinal section, parted vertically through its centre; and

Figure 3 is a longitudinal plan section, parted horizontally through the centres of the screws *h* and *i*.

Similar letters of reference indicate like parts.

The object of my invention is to provide an adjustable guide for laying the slivers being fed to carding-machines evenly over the surface of the cylinder, which I accomplish by making my guide in two or more parts, one above the other, so arranged that either can be set at the point desired simply by turning a screw, thus enabling the operator to deliver the slivers where they are required to cover the whole surface, instead of delivering it in ridges, as by the ordinary methods.

It is constructed and arranged as follows: The bar *d* represents the lower part of the device, with vertical slots *e* entirely through it, near each end, for the supporting and guiding-studs *b b*, which are set into the frame of the carding-machine, near each end of the guide-bars. If more than two guide-bars are used, they would all be like this, except the top one, *c*, in which the vertical slots corresponding with *e*, do not extend quite through the bar. Each bar is perforated with elliptical holes, *v*, at proper distances, and of sufficient size to allow the slivers to pass freely, a portion through each bar. The number of holes is determined by the width of the carding-machines when applied to second breakers, and by the number of rings on the doffer, when applied to the finishing-card. Through one end of each bar is a bolt, *g*, set on a horizontal plane with the screw *h*, which passes through it, having no thread at this place, but is threaded at the end and works in the stud *b*. Through the bolt *g* is fitted the screw *i*, having a smooth, straight end, fitting the groove turned in the surface of the screw *h*, which causes the bar to move when the screw *h* is turned.

To place the guide-bars in position to operate, they are placed across the frame of the carding-machine, parallel with and near to the feed-rolls, the ends upon the frame, the studs *b b* having been previously set vertically in the frame of said carding-machine, passing through the slots *e* in the lower bar or bars, and into the slots or mortises of the top bar *c*. The screw *h* is then put in its place, working in the stud *b*, as in a nut. The small screw *i* is then set in its place, the smooth end extending into the groove cut in the body of the screw *h*, between the thread and its head. It is then complete.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of two or more adjustable guide-bars, constructed substantially as described and for the purpose set forth.

2. The arrangement of the screws *h* and *i* with the bolt *g*, for the purpose specified.

JOHN BACHELDER.

Witnesses:

ALLEN TENNY,

ALBERT S. BOLLES.