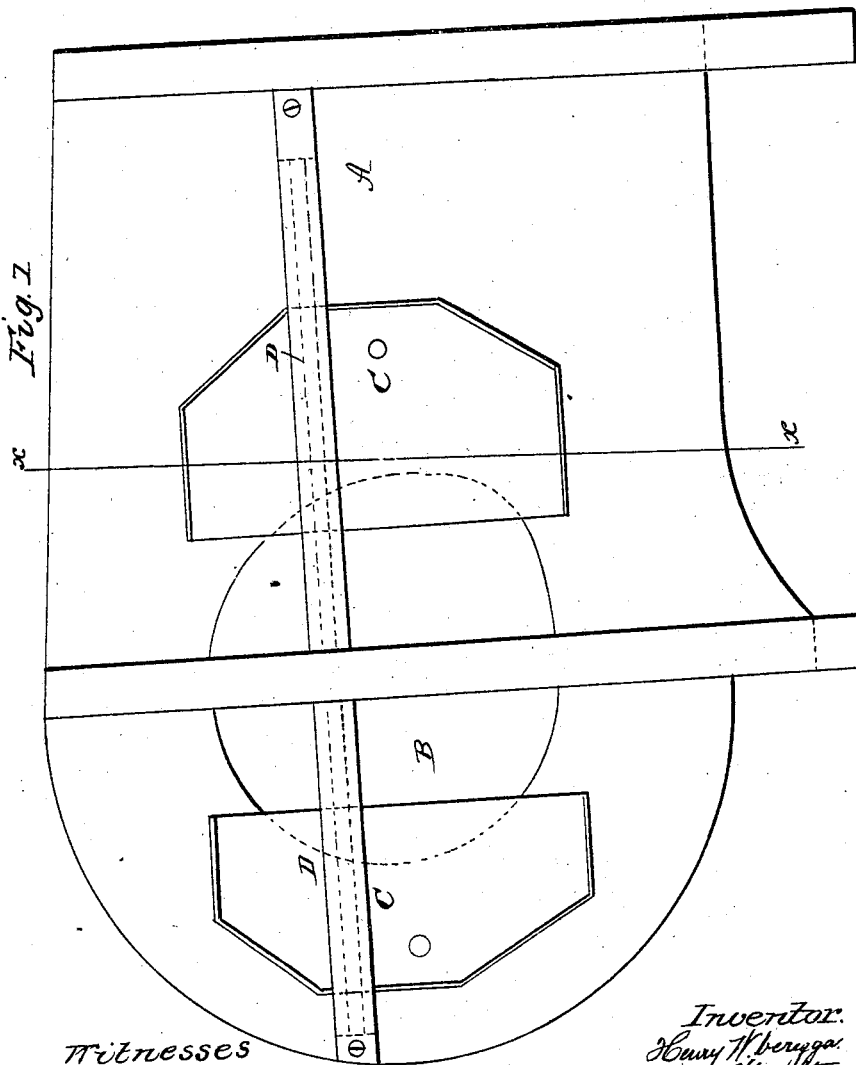
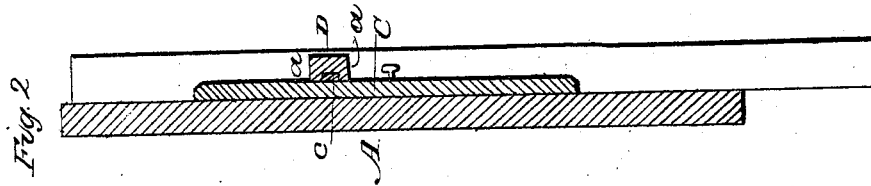


H. W. VEREGGE.

Fanning Mill.

No. 46,312.

Patented Feb. 7, 1865.



Witnesses
Jas. O. Arthur
J. W. Huber

Inventor.
Henry W. Verge
By J. W. Huber

UNITED STATES PATENT OFFICE.

HENRY W. VEREGGE, OF RICHMOND, INDIANA, ASSIGNOR TO BENJAMIN C. WHITE, MARSHALL G. HENRY, AND WILLIAM CAIN, JR., ALL OF SAME PLACE.

IMPROVEMENT IN FANNING-MILLS.

Specification forming part of Letters Patent No. **46,312**, dated February 7, 1865.

To all whom it may concern :

Be it known that I, HENRY W. VEREGGE, of Richmond, in the county of Wayne and State of Indiana, have invented a new and useful improvement in the manner of hanging the slides or wind-hole shutters of fanning and other wind mills; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents the side of a fanning-mill. Fig. 2 represents a vertical transverse section through the same, taken at the red line *x x* of Fig. 1.

Similar letters of reference, where they occur in the separate figures, denote like parts in both.

The slides or wind-hole shutters of fanning-mills are generally hung in grooves made in or by two horizontal pieces, one at the top and the other at the bottom of the shutter. This mode of hanging the shutters is objectionable on several accounts—first, the accumulation of dirt, grit, &c., in the grooves prevents them from sliding freely; second, if made to slide freely originally, they will not remain at any fixed position without fastening them, the jar of the machine moving them one way or the other; and, thirdly, if made to work close, then the least swelling or warping of the wood so binds them as to prevent them from moving at all. I am aware that to obviate these objections to this general plan of hanging the slides holes have been bored through the shutters horizontally, for the reception of a rod or bar, upon which the shutter may be slid. Though this answers a good purpose, it is difficult and expensive to make and repair, for unless the rod or bar be heavy enough to sustain the shutters without sagging, which of course involves the making of the shutters thick enough for the necessary hole to slide over the bars, it will not work well and smoothly. Besides, with this round bearing there is nothing to keep the shutters close up to the side of the machine and make them what they are designed to be—namely, “wind-hole” shutters.

I make no reference to that kind of shut-

ters that swing from a pivoted point, as they will not open the whole windway when necessary, and do not come within the scope of my invention.

My invention consists in making a horizontal groove in a piece attached to the side or frame of the fanning or other wind mill, and making a strip, rib, or batten on the slides or shutters that will freely move in said groove, so that the slides or shutters are suspended by the strip or rib, and are kept in place close up to the side of the mill by the piece on which it moves.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

A represents one of the sides of an ordinary fanning-mill; and B, the openings thereof, leading into the fan or fan-case, for supplying the fan with air to make a regulated blast.

C C are the slides or shutters for partially or entirely closing the openings B, as may be found necessary. These shutters or slides I hang as follows: In the piece D, I form a groove, *a*, (rectangular or otherwise,) in that face of it next to the side A of the mill, and upon the shutters or slides C, I fasten a strip, rib, or batten, *c*, that will freely move in and through said groove *a*. This strip, rib, tongue, or batten may be as long as the shutters have width, or they may be blocks or cleats, but so made as to run in the groove, and with rigidity enough to hold up the shutters or slides, which, moving between the piece D and the side A, is kept in proper position as it is moved along. This device is cheaply made and easily attached, and any farmer may easily and readily repair it. The groove *a*, being horizontal instead of vertical, catches no dirt or grit to clog the movement of the slides. The slides move freely and easily, yet will remain in any adjusted position within the limits of their movement. If desirable, the groove may be dovetailed, and the tongue or piece or pieces that slide in it may be of a corresponding shape or form.

Having thus fully described my invention

and shown wherein it differs from what has been hitherto known for a similar purpose, what I claim therein as new, and desire to secure by Letters Patent, is—

Hanging the slides or shutters of fanning or other similar mills to the frame, or to a piece connected to the frame, by means of a tongue, strip, or block on said slides or shut-

ters and a horizontal groove or grooves in the face of said frame or piece, as and for the purpose set forth.

HENRY W. VEREGGE.

Witnesses:

LEWIS D. STUBBS,
WILLIAM BARR.