

J. W. MERRIMAN.

GRAIN-DOORS.

No. 174,427.

Patented March 7, 1876.

Fig. 1

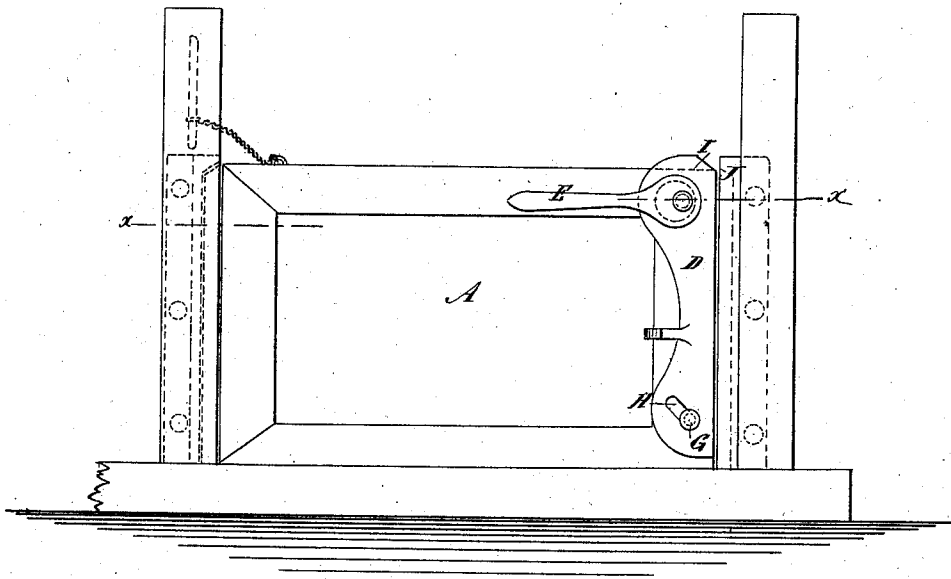
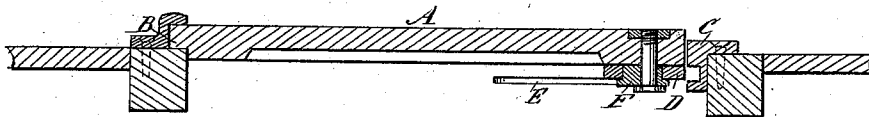


Fig. 2



WITNESSES:

C. Nervux
John Goethals

INVENTOR:

INVENTOR:
J. H. MERRIMAN
BY

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSHUA W. MERRIMAN, OF WELLS, MINNESOTA, ASSIGNOR TO HIMSELF
AND BENJAMIN F. SMITH, OF SAME PLACE.

IMPROVEMENT IN GRAIN-DOORS.

Specification forming part of Letters Patent No. **174,427**, dated March 7, 1876; application filed
January 29, 1876.

To all whom it may concern:

Be it known that I, JOSHUA W. MERRIMAN, of Wells, in the county of Faribault and State of Minnesota, have invented a new and Improved Grain-Door, of which the following is a specification:

My improvement in grain-doors consists of a vertical catch-bar at one end, mounted at its upper end on an eccentric stud of a hand-lever, and at its lower end having a slot working on a stud-pin, the slot being so inclined that when the eccentric stud is worked to raise and draw back or lower and push forward the upper end of the catch-bar, the lower end will work in the same manner, thus making a powerful catch-bar to hold one end of the grain-door by being pressed into a groove in the door-frame, the other end being put in a groove to begin with, and the catch also binds the door fast and prevents it from shaking, and at the same time it locks the door against rising, by its beveled upper corner passing under a beveled top to the groove in which the catch engages.

Figure 1 is a side elevation of our improved door, and Fig. 2 is a horizontal section taken on the line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is the door, which at one end fits in a groove, B, in the door-frame, and at the other end shuts against the grooved plate C, and has the catch-bar D fitted to its side on the eccentric stud F of a hand-lever, E, at its upper end, and on the stud-pin G by its inclined slot H at the lower end, so that by working the lever down the catch will be pressed into the groove to lock the door, and by working up it will be withdrawn to open the door. I is the beveled upper corner of the catch-plate, which is pressed under the beveled top J of the groove to lock the door against rising up.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The catch-bar D, connected to door A by eccentric lever E F, stud G, and inclined slot H, in combination with grooved plate C on the door-frame, substantially as specified.

2. The catch-plate D, having the beveled upper corner I, in combination with beveled top J of the groove, and the eccentric lever and the stud I, and slot H, substantially as specified.

JOSHUA W. MERRIMAN.

Witnesses:

J. M. HUTCHINS,
J. A. BUTLER.