La V. W. NOYES.

Farm-Gate.

No. 161,817. Patented April 6, 1875.

Fig 1.

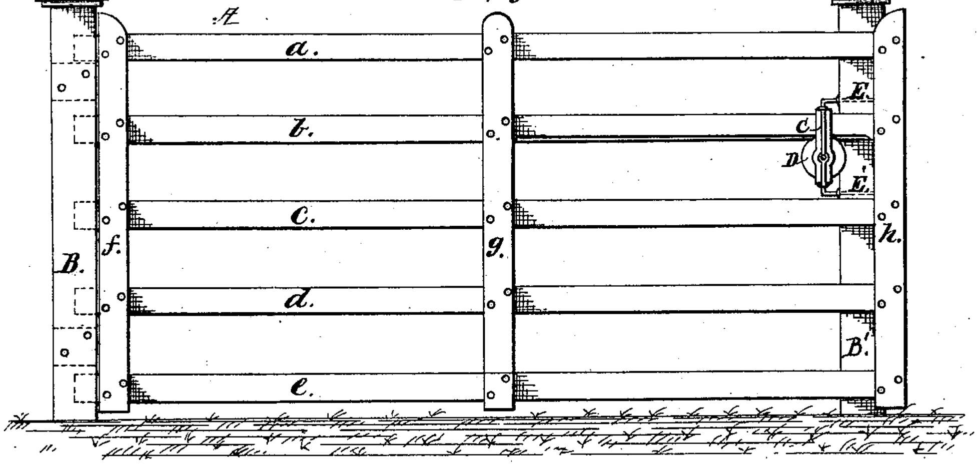


Fig 2.

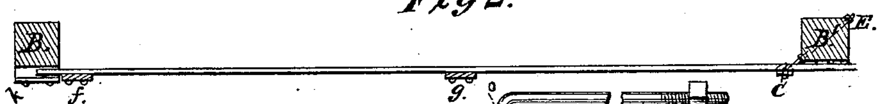


Fig 3.

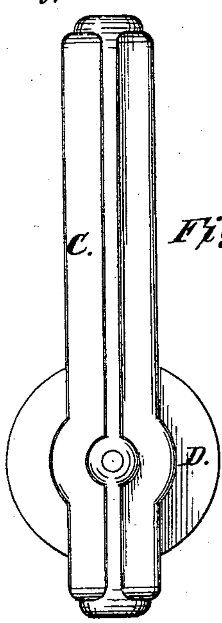
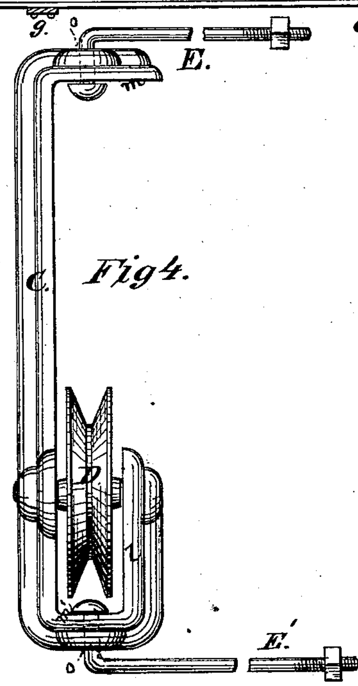


Fig 4.



Witnesses:

T. C. Oomyton

Me. L. Shuck

Inventor:

Laverus W. Noyes

Chipman Hosmer & Co.
attorneys

UNITED STATES PATENT OFFICE.

LA VERNE W. NOYES, OF SPRINGVILLE, IOWA.

IMPROVEMENT IN FARM-GATES.

Specification forming part of Letters Patent No. **161,817**, dated April 6, 1875; application filed August 15, 1874.

To all whom it may concern:

Be it known that I, LA VERNE W. NOYES, of Springville, in the county of Linn and State of Iowa, have invented certain new and useful Improvements in Gates; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon, which form a part of the specification.

My invention has relation to that class of farm-gates which have a sliding and rotary motion; and the novelty consists in the construction of a gate-hanger, as will be hereinafter more fully set forth.

In the accompanying drawings, A represents the gate, composed of the horizontal bars *a*, *b*, *c*, *d*, and *e*, connected together by the vertical bars *f*, *g*, and *h*. B B′ are the gate-posts, arranged directly opposite each other. The post B is provided with a vertical slat, *k*, on its outer face, from which it is separated by intermediate blocks. C represents the gate-hanger, the lower end of which is bent horizontally, as seen at *m*, and then vertically upward and parallel with the main portion C, so as to form a bearing for the journal of the grooved pulley or sheave D, the other bearing of the pulley being in the main portion of the hanger C. The upper end of the hanger is bent at a right angle to the main portion of the hanger, as shown at *m*. Perforations *o o* are made in the horizontally-bent portions of the hanger, for the reception of the bolts E E′, which are bent at right angles in opposite directions and headed at their upper end, so as to form vertical axes, about which the hanger C will rotate freely, as shown in Fig. 4. These bolts E E′ are inserted, when the gate is hung, in the inner front edge of the gate-post B′, and extend diagonally through said post, and are secured at their outer ends by nuts or clinching. The horizontal bar *b* of the gate passes between the upper portion of the circumference of the pulley and the upper horizontal portion of the hanger, allowing the gate to be horizontally moved, and then rotated so that it will be open. The hanger C, thus constructed, serves to support the grooved pulley D in position for the reception of one of the bars *b* to rest or slide upon, and to hold the gate firmly in position against the post B′.

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

1. A gate-hanger bent rectangularly at its lower end, so as to form journal-bearings for the groove-pulley D, and at its upper end bent at right angles and provided with perforations *o o*, for the reception of bent headed bolts E E′, substantially as described.

2. The hanger C, supported above and below the center of the grooved pulley D by means of the bent bolts E E′, substantially as described.

LA VERNE W. NOYES.

Witnesses:

J. J. BLAIR,

C. E. SMITH.