

(No Model.)

J. H. COVER.

FARM GATE.

No. 245,939.

Patented Aug. 23, 1881.

Fig. 1.

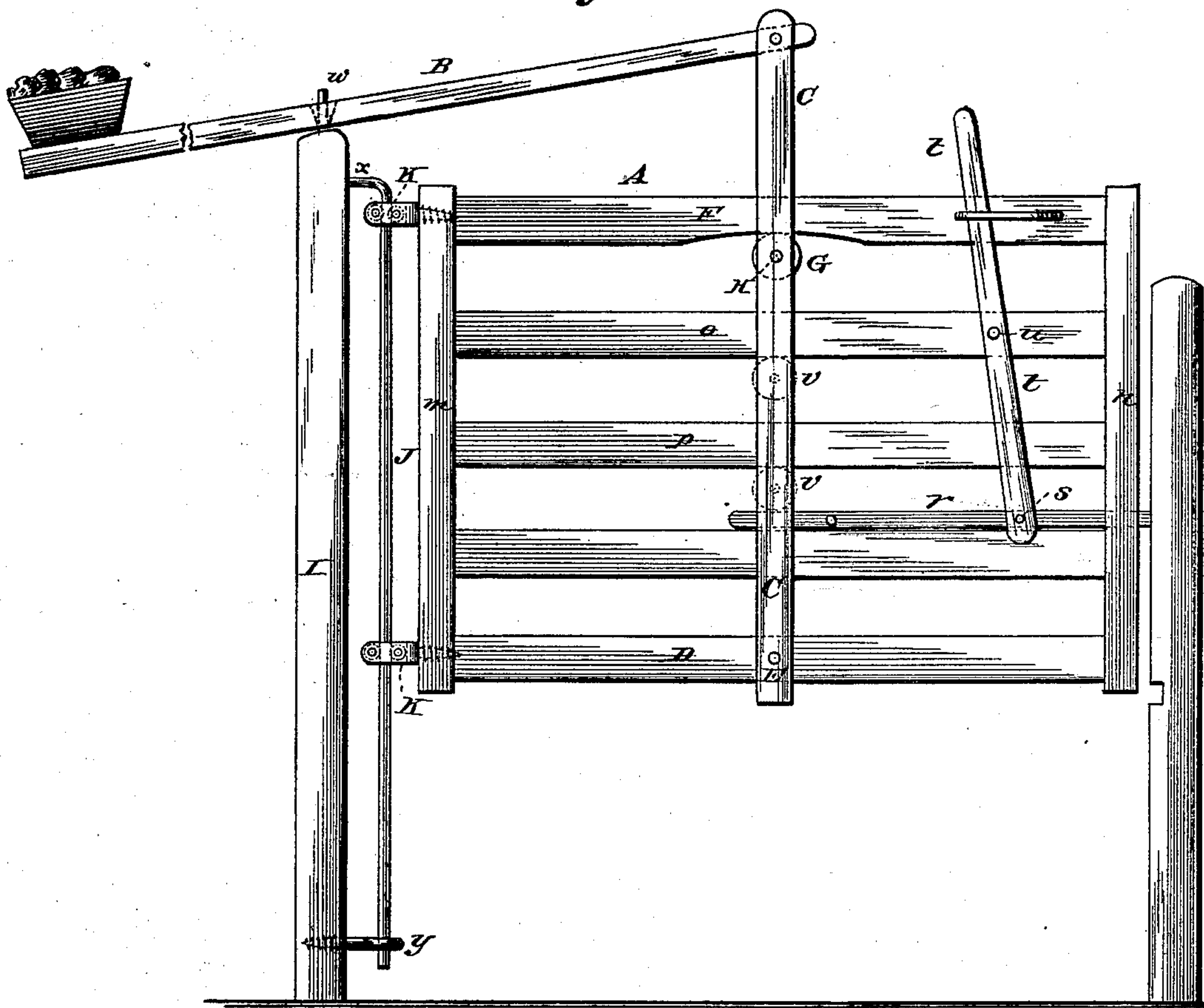
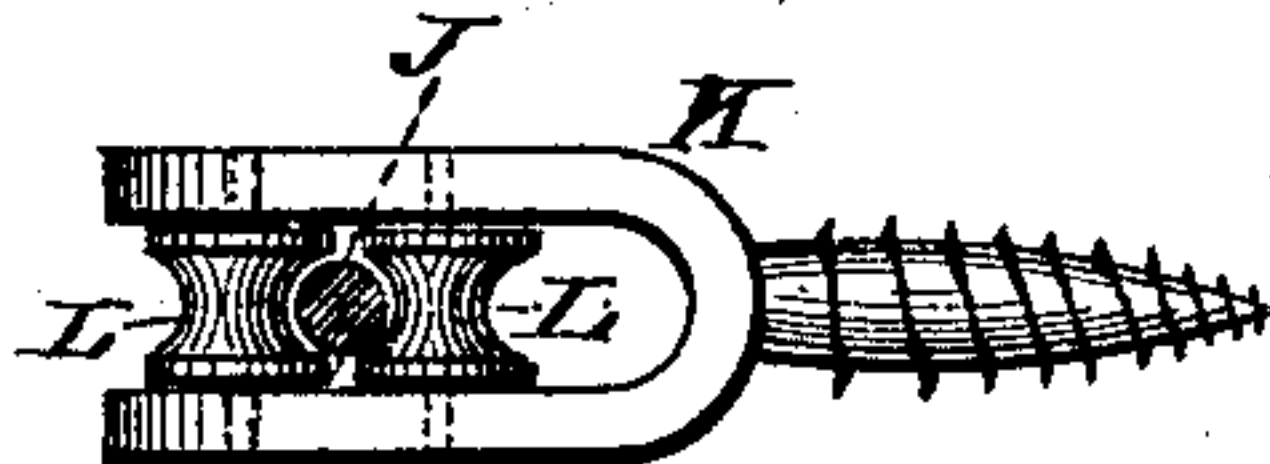


Fig. 2.



WITNESSES

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JOHN H. COVER, OF NORTH LIMA, OHIO.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 245,939, dated August 23, 1881.

Application filed June 23, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. COVER, of North Lima, in the county of Mahoning and State of Ohio, have invented a certain new and useful Improvement in Farm-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 to the letters of reference marked thereon.

The nature of my invention consists in the peculiar manner of hinging and suspending the gate, whereby it will be balanced and susceptible of elevation and depression, and may be swung outward and inward at the will of the operator.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification, Figure 1 is a front elevation of my improvement in farm-gates. Fig. 2 is a top view of the knuckle part of the hinge of said gate.

Reference being had to the accompanying drawings, A represents the gate composed of two vertical bars, *m* and *n*, and five horizontal bars, *F o p q D*, and is furnished with a sliding latch, *r*, to which, at *s*, is pivoted a lever, *t*, which, at *u*, is pivoted to the bar *o* of the gate. The lever *t* is used for operating the latch *r*.

The gate A is suspended by means of hangers C pivoted at E to the bar D. The upper ends of said hangers are pivoted to a weighted and pivoted lever, B.

Between the hangers C and under the upper bar, F, of the gate, at H, is pivoted a friction-roller, G, which roller is used for dividing the weight of the gate A, so that its weight will be on the bars F and D and upon the friction-roller G and pivot E. The friction-roller G will greatly relieve the pivot E and allow the hangers C to move with ease laterally when elevating and depressing the gate.

If desired, rollers may be placed under the bars *o p*, as indicated by the dotted lines *v*, thereby supporting the weight of the gate at four different points.

The lever B is pivoted on the upper end of the gate-post I by means of an iron pin, *w*, driven into the post, which pin passes up through an opening in the lever B.

The gate is hinged by means of the pintle J and knuckles K. The upper end of the pintle is bent, as at *x*, and driven into the post I, and the lower end of said pintle held in a fixed position with relation to the post I by means of an eyebolt, *y*. In the hinging of the gate A the pintle J is placed between the grooved rollers L L of the knuckles K. (Clearly shown in Fig. 2.)

By this arrangement of the several parts constituting the hinges of the gate said gate can be elevated and depressed without undue friction. The gate being suspended and balanced, as hereinbefore described, the operator with ease can raise and lower it and swing it outward or inward without liability of twisting or straining the gate in any of its parts, and can adjust the gate with relation to the ground to suit the requirements of the farmer.

Having thus described my improvement, what I claim as of my invention is—

1. In a farm-gate, the gate A, suspended through the medium of the lever B and hangers C, pivoted to the lower bar, D, at E, with the upper bar, F, resting upon a friction-roller, G, pivoted in the hanger C at H, the gate hinged to the post I by the long pintle J and knuckles K, having friction-rollers L, substantially as hereinbefore described, and for the purpose set forth.

2. In a farm-gate, the gate A, suspended through the medium of the weighted lever B, and hanger C, pivoted to the lower bar, D, at E, the gate hinged to the post I by the long pintle J and knuckles K, having friction-rollers L, substantially as hereinbefore described, and for the purpose set forth.

JOHN H. COVER.

Witnesses:

J. J. JOHNSTON,
JOHN G. BEATTY.