(No Model.)

J. A. LEASE.

FARM GATE.

No. 342,113. Patented May 18, 1886.

Fig. 1

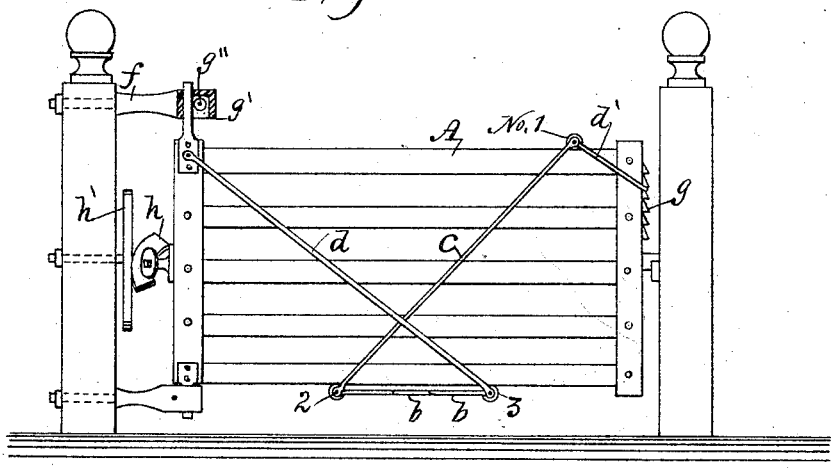
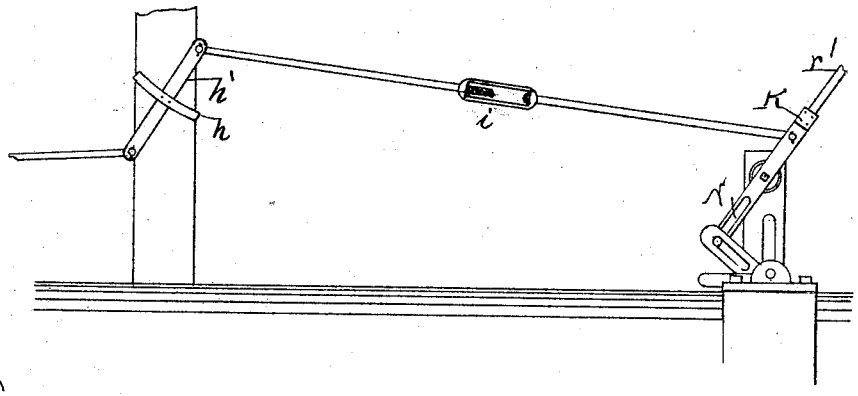


Fig. 2



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UNITED STATES PATENT OFFICE.

JESSE A. LEASE, OF BLUE GRASS, INDIANA.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 342,113, dated May 18, 1886.

Application filed February 26, 1886. Serial No. 193,385. (No model.)

To all whom it may concern:

Be it known that I, JESSE A. LEASE, a citizen of the United States of America, and a resident of Blue Grass, in the county of Fulton and State of Indiana, have invented a new and useful Improvement in Farm-Gates, of which the following is a specification.

My improvement relates specially to the gate shown and described in the United States Letters Patent No. 243,712, issued to me July 5, 1881; and my invention consists in the construction and combination of bracing and operating mechanism with the gate, as hereinafter set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the gate in position as required for practical use, and Fig. 2 an enlarged view of the operating mechanism by means of which the gate is opened and closed by the contact of the wheels of passing vehicles or by persons on horseback.

A is the flexible gate.

No. 1 is a roller on the top edge of the upper bar, and Nos. 2 and 3 are rollers on the lower edge of the lower bar, connected by means of two rods, *b*, that have eyes on their ends to admit the journals that extend from the ends of the rollers.

c are rods connected with the rollers Nos. 1 and 2 in the same manner.

d are rods connected with the roller No. 3 at their lower ends in the same manner, and pivoted to the top of the vertical rear portion of the gate.

d' is a U-shaped rod or yoke, pivoted to the roller No. 1 in such a manner that its free end can be adjustably connected with a rack, *g*, fixed to the front end and top portion of the gate.

To elevate the front and free end of the gate by means of these bracing-rods and rollers, I simply lower the yoke in the rack. A reverse movement of the yoke will lower the gate.

g' are covered boxes formed integral with the bearers *f*, to which the gate is suspended by passing the journals that extend from the top and bottom corners of the gate through vertical bores in the bearers *f*. Anti-friction rollers *g''*, placed in those boxes, will be concealed and protected from rain and snow.

h represents an inclined and curved plane fixed to a lever, *h'*, that is pivoted to the fixed gate-post. Arms are thus provided to project vertically in opposite directions from the inclined plane, to the ends of which the operating-rods *s* are attached.

i is a turn-buckle connected with each rod *s*, for the purpose of lengthening and shortening the rods at pleasure.

k represents flanges or sockets formed integral with the top ends of the levers *r*, for the purpose of attaching handles *r'* to the levers in such a manner that a person on horseback can, by means of the handles, open and close the gate without dismounting. The lower ends of the same levers are provided with slots corresponding with the slots in the triple cranks with which they are connected.

I claim as my invention—

The flexible gate A, having a rack, *g*, fixed in a vertical position on the upper portion of its front end, a roller, No. 1, on the top rail near the front end, the rollers Nos. 2 and 3 on the bottom edge of the lower rail and connected by rods *b*, rods *d*, pivoted to the upper corner and rear end of the gate and to the journals of the roller No. 3, rods *c*, pivoted to the journals of the rollers Nos. 1 and 2, and a yoke, *d'*, pivoted to the journals of the roller No. 1, arranged and combined to operate in the manner set forth, for the purposes stated.

JESSE A. LEASE.

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