

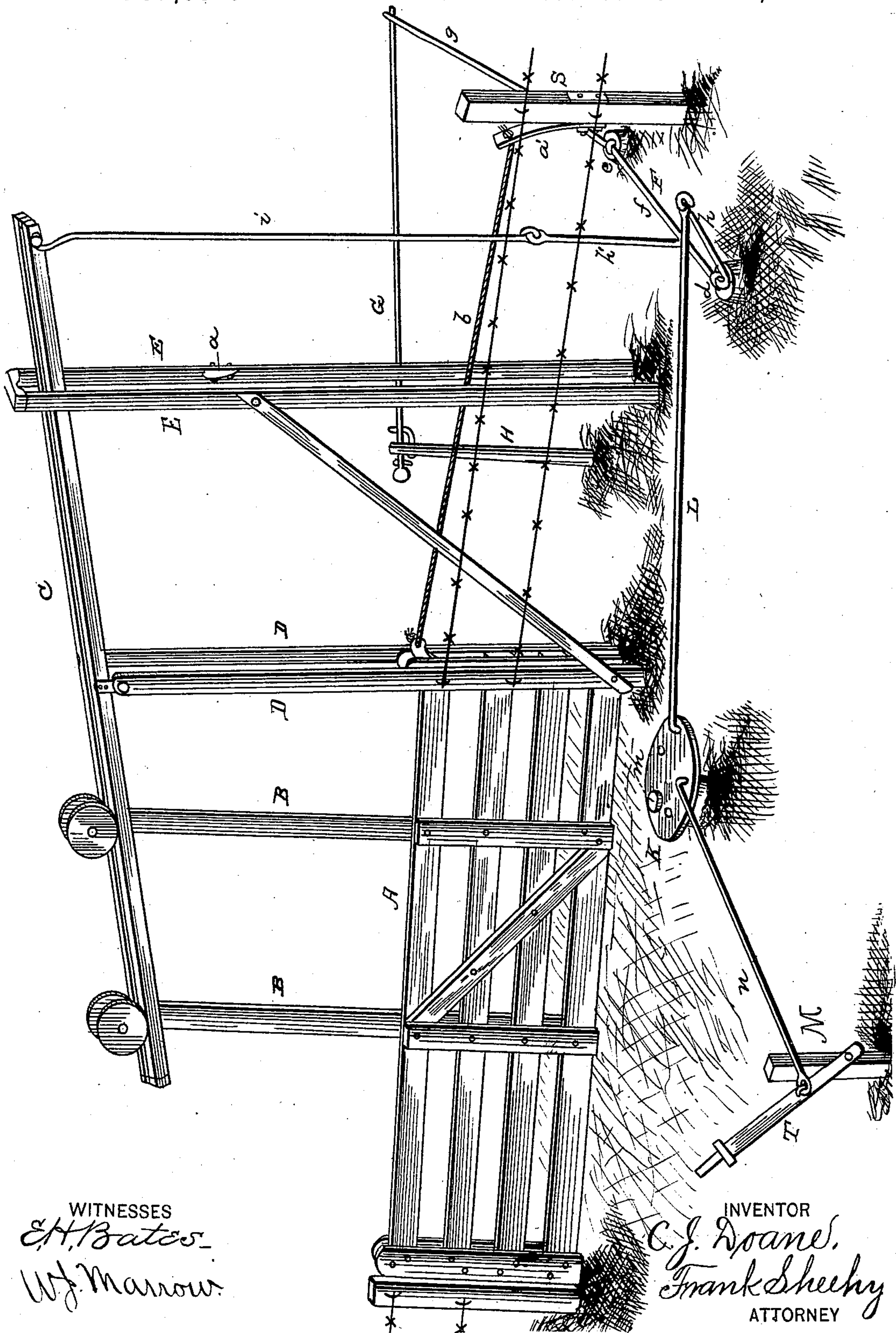
(No Model.)

C. J. DOANE.

FARM GATE.

No. 291,994.

Patented Jan. 15, 1884.



WITNESSES
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FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 291,994, dated January 15, 1884.

Application filed May 25, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. DOANE, a citizen of the United States, residing at Old Gilroy, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Farm-Gates, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention has relation to improvements in rolling gates; and it consists in the peculiar construction and arrangement of parts, as will be hereinafter more fully set forth.

The object of the present invention is to arrange, in connection with a gate capable of being lifted, a cheap and simple system of rods and levers with an eccentrically-pivoted disk, and pivoted crown rails or track, whereby the gate may be operated back and forth, to open and close the passage-way for a wagon or the like, without necessitating the driver to leave his seat or dismount from his horse. This is accomplished by the means shown in the accompanying diagram, similar letters of reference being made thereto indicating corresponding parts, which is a representation in perspective of a gate in a closed position, showing my improvements applied.

Referring by letter to the diagram, A represents the gate, which is of the ordinary construction, having secured thereto lateral vertical posts or beams B B, extending a suitable distance above the gate-top, the forward one of which is of less length than the rear, and which are both provided at their upper ends with rollers adapted to travel on the upper face of the vibrating beams or track C. This vibrating track is composed of two parallel beams, provided at opposite ends with division or stay blocks, and centrally pivoted between the upper ends of two parallel vertical posts, D D, arranged near the rear end of the gate and of greater height than the beams B.

The letter E represents two vertical parallel beams or posts, which are located a sufficient distance beyond the rear of the gate, in a line with the same, and are provided at their upper ends with a connecting division block or cap, and on their inner sides, a sufficient distance from the top, with a cushion, *a*, to limit

the downward movement of the rear end of the vibrating track, which has a vertical play in the slot of the said beams E. These vertical posts or beams are of still greater height than the posts D. Secured at their rear to the adjacent post of the fence is a flat spring, *a'*, to the upper or outer end of which is secured one end of a rope or chain, *b*, that is secured at its opposite end to the upper rear portion of the gate. The object of this spring is to relieve the gate from jar and injury in closing.

F represents a compound lever, which is journaled upon short vertical posts *d* and *e* by means of staples. This compound lever consists of a horizontal portion, *f*, a vertical portion, *g*, to the upper end of which is connected the rear end of an operating-lever G, which is supported at its forward end by a bracket secured laterally to the upper end of the post H, arranged at one side of the gate or fence, a bent arm, *h*, to which is secured a connecting-rod, L, the opposite end of which is provided with a short downward rectangular arm, to engage with perforations in the eccentrically-pivoted disk K, and the central right-angular arm *k*, the upper end of which is connected to one end of a rod, *i*, which rod is secured at its opposite end to the rear end of the pivoted vibrating beams or track C. The disk K is eccentrically pivoted to the vertical post M, and provided with a plurality of perforations, whereby an adjustment may be made with the rods L and N to regulate the opening and closing of the gate. The rod N is also provided at its inner end with a downwardly-bent short arm, to engage the perforations of the disk K, and is secured at its opposite end to the operating-lever T, which lever is pivoted at its lower end to the vertical post M, located at the opposite side of the fence or gate from the post H.

From the foregoing description it will be seen that there is but one disk, K, employed, which may be located at either side of the gate desired, while at the opposite side is arranged the vertical plain post H, carrying a bracket or other suitable means near its upper end, to receive and support the operating-rod G.

In operation the driver or occupant of a

vehicle on approaching the gate from the side carrying the disk may grasp the lever T, and pull the same forward, when the rods N, L, and *i*, by means of the disk K and compound lever
5 F, will lift and throw rearward the gate, supporting it on the track C. By this operation the rod G will be thrown forward or in the direction of the passage-way when the operator may grasp and push it back. In enter-
10 ing from the opposite side this operation is merely reversed.

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

15 1. The gate A, provided with the vertical beams BB, carrying rollers at their upper ends, in combination with the vertical post D, the track-beams C, the spring *a'*, secured to the rear adjacent post of the fence, and the rope
20 or chain *b*, for preventing jar or injury to the gate and frame in its closing movement, all constructed and adapted to operate substantially as specified.

2. In a rolling-gate substantially as described, the compound lever F, journaled in 25 short vertical posts at the rear of the gate, in combination with the rod *i*, pivoted vibrating track-beams, connecting-rods L and N, the eccentrically-pivoted disk K, posts M and H, and the operating-levers G and T, all con- 30 structed and adapted to operate substantially as and for the purposes specified.

3. The disk K, eccentrically pivoted upon the post M, and provided with a plurality of perforations, in combination with the gate A, 35 posts B, carrying rollers, as shown, the lateral posts D and E, track C, compound lever F, and operating rods and levers, substantially as specified.

In testimony whereof I affix my signature in 40 presence of two witnesses.

CHARLES J. DOANE.

Witnesses:

WM. B. BELL,
J. R. PAYNE.