

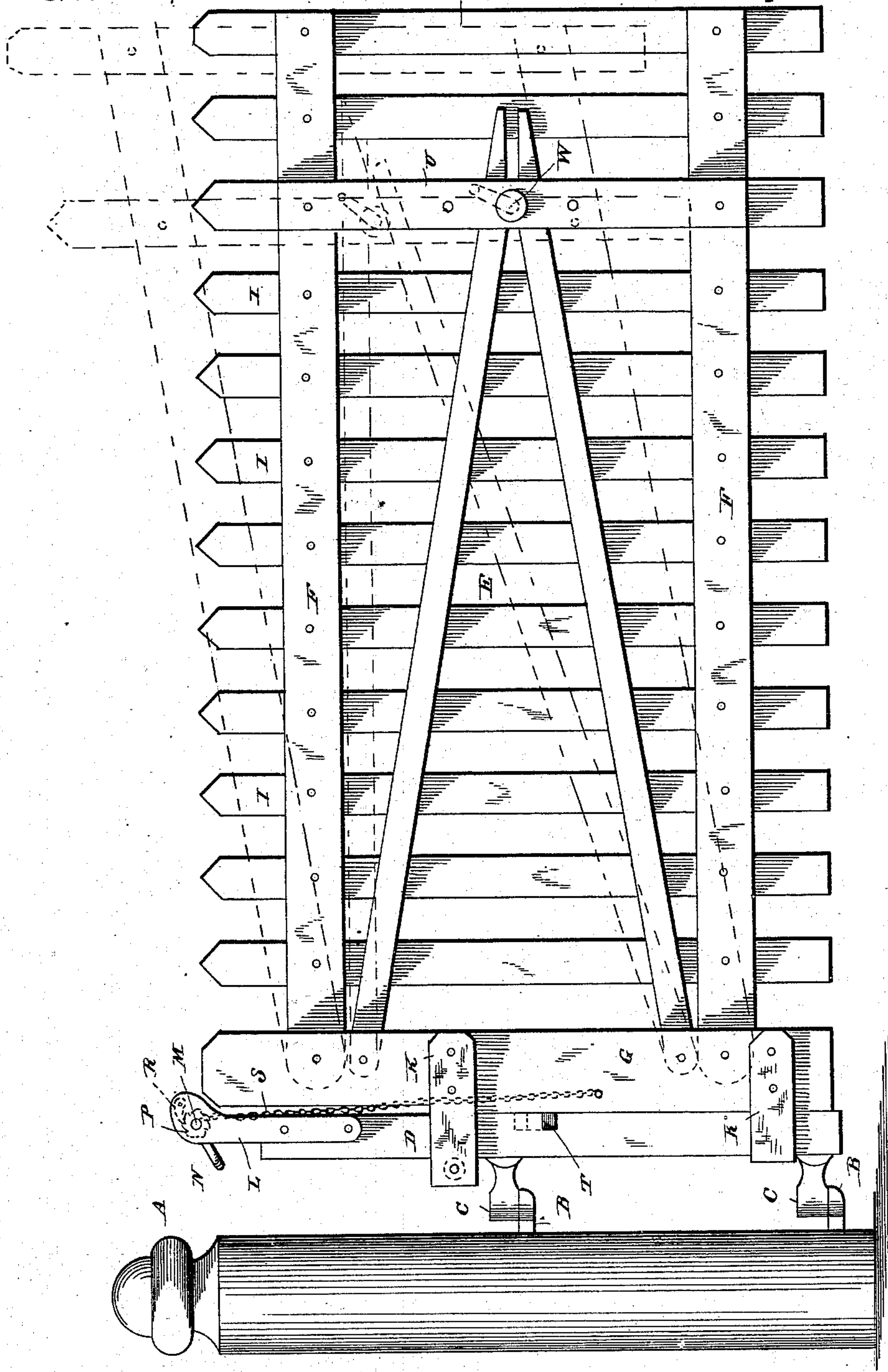
(No Model.)

I. L. LANDIS.

GATE.

No. 284,441.

Patented Sept. 4, 1883.



Witnesses.
Edwin L. Yeivell.
J. J. McCarthy.

Inventor
Israel L. Landis
C. M. Alexander, Attorney.

UNITED STATES PATENT OFFICE.

ISRAEL L. LANDIS, OF LANCASTER, PENNSYLVANIA.

GATE.

SPECIFICATION forming part of Letters Patent No. 284,441, dated September 4, 1883.

Application filed October 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, ISRAEL L. LANDIS, of Lancaster, in the county of Lancaster, and in the State of Pennsylvania, 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 to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in that class of farm-gates which may be elevated for the passage of small stock, and which at the same time will confine large stock; and it has for its objects to provide improved means by means of which the elevation of the gate may be effected. This object I attain by the means illustrated in the accompanying drawing, in which is represented a side elevation of a gate constructed according to my invention.

In the said drawing, the letter A indicates a gate-post of any suitable description, which is provided with brackets B, having pintles C, upon which the socket-heads attached to the upright beam D are adapted to be set.

The letter E indicates the gate proper, which is composed of two parallel rails; F, pivoted at one end of each between the vertical beams G, or in a suitably-recessed beam, the other ends being pivoted to a vertical beam, H, the said rails having also pivoted to them the vertical slats I, the whole so arranged that the gate may be elevated at an angle.

The vertical beam or beams G are provided with metallic straps K, which embrace and are adapted to slide upon the hinged upright beam D. To opposite sides of the said upright beam are secured brackets L, in the upper ends of which is journaled a shaft, M, which is provided with a crank, N, as indicated. The said shaft is also provided with a ratchet-wheel, P, with which is adapted to engage a pawl, R, to hold the shaft when required. To the shaft is attached a chain or cord, S, which extends down into the slot or space between the sides of the vertical beams G, and which is secured to the beam at its lower end in such manner that by rotating the shaft the gate may be readily elevated or depressed. The letter T indicates an inclined

or oblique groove formed at the edge of the beam D, which adjoins the beam G, for the reception of a wedge, by means of which the parts may be locked when the gate is elevated to any desired position.

In order to permit the gate to be properly held when elevated obliquely, it is provided with two oblique rails pivoted at one end to the beam or beams G, and passing at their forward ends between one of the vertical slats I and a pivoted vertical beam, U. Through such slat and beam, between the oblique beams, is passed a transverse screw, W, which is provided with a head at one end and a washer and crank-nut at the other, by means of which the parts of the gate may be clamped together to secure the gate in a horizontal or oblique position.

As constructed, it will be perceived that the gate may be bodily elevated or depressed by means of the crank-shaft and chain, and held in position by the ratchet and pawl, or by the wedge inserted in the oblique groove above mentioned, and also that it can be obliquely elevated and held by means of the oblique beams and the clamping devices, as described.

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

1. The combination, with the hinged vertical beam and the parallel beams or slotted beam, of the gate, the straps embracing the swing-beam, and the elevating crank-shaft and chain, and the ratchet and pawl, the whole adapted to operate substantially as specified.

2. In combination with the hinged beam and the adjacent gate beam or beams and straps, the elevating mechanism, as described, the hinged beam being provided with a groove and an interposed wedge, whereby the gate may be adjusted and held, substantially as specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 23d day of October, 1882.

ISRAEL L. LANDIS.

Witnesses:

J. B. SAMSON,
JOSEPH SAMSON.