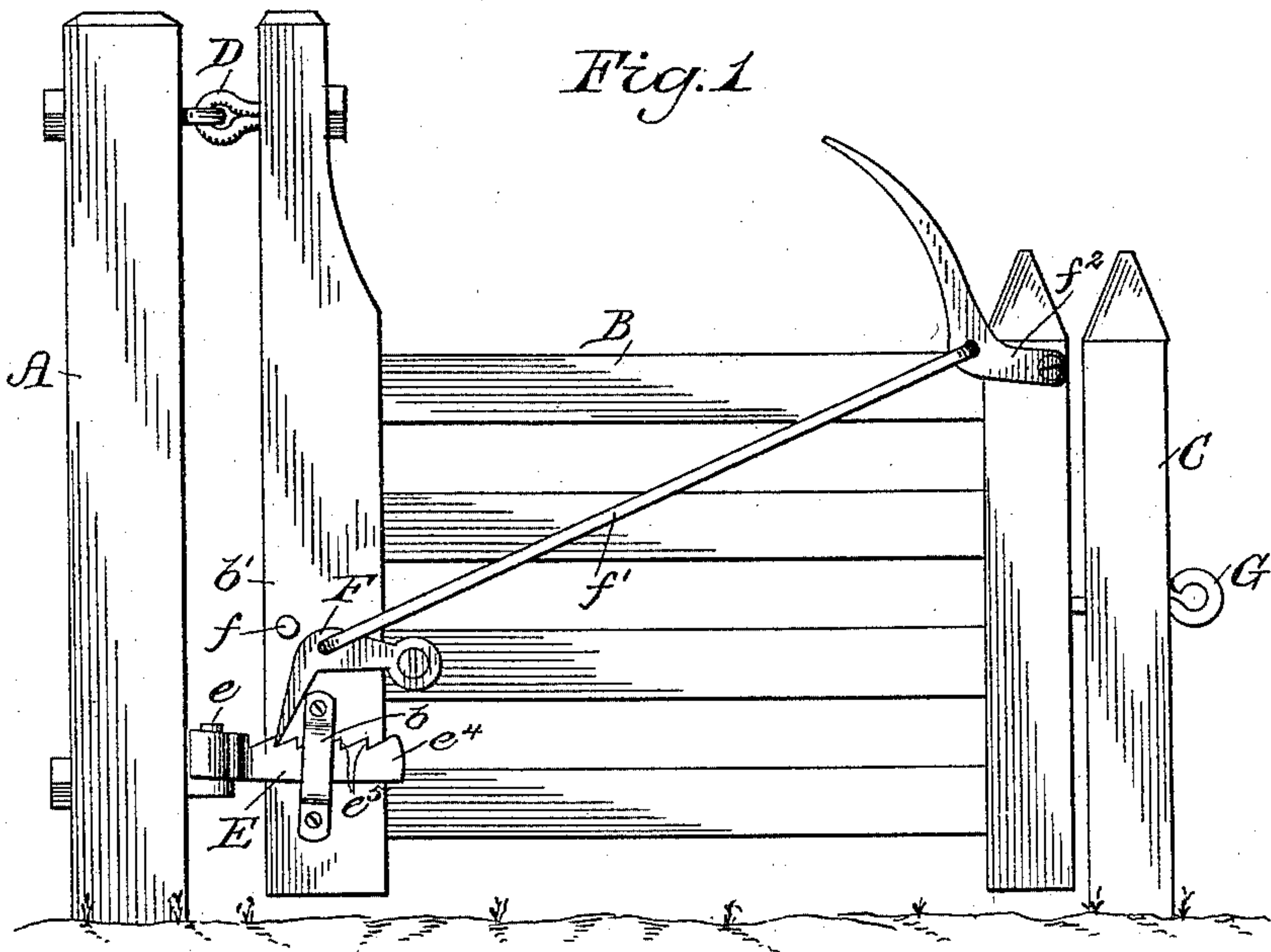


(No Model.)

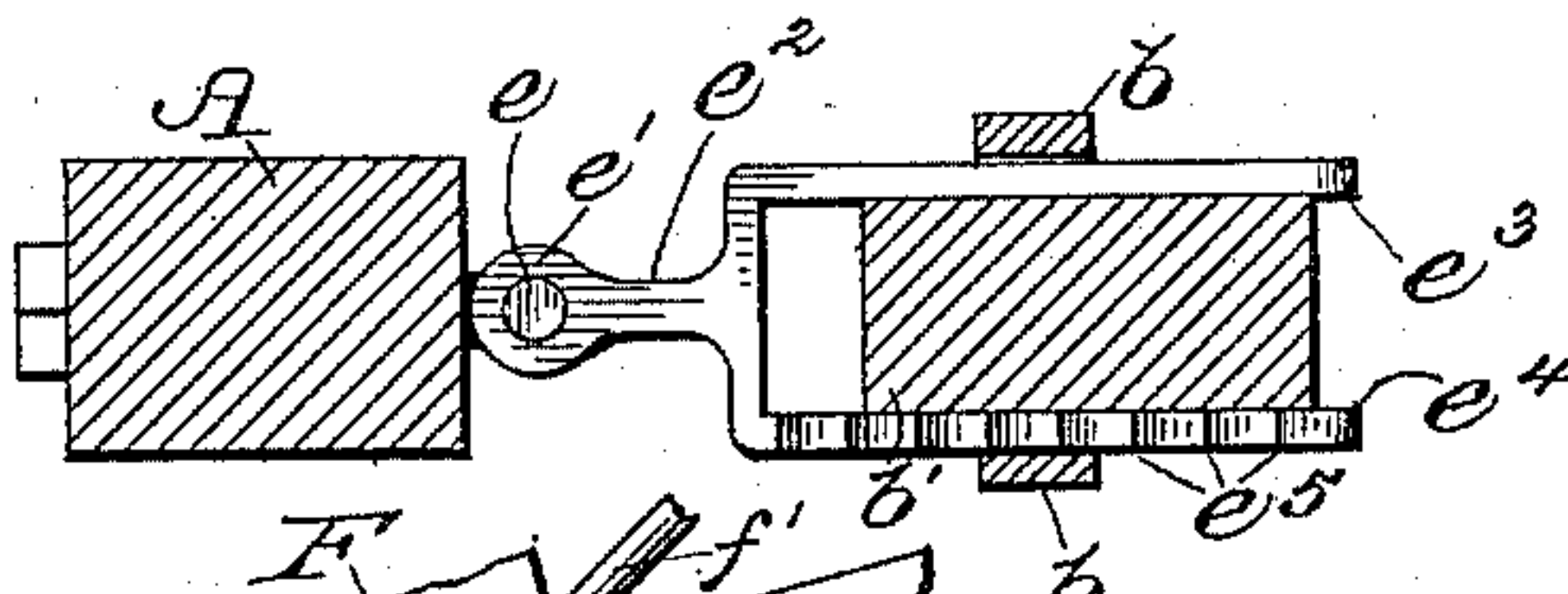
W. R. LIDDLE.  
GATE.

No. 465,097.

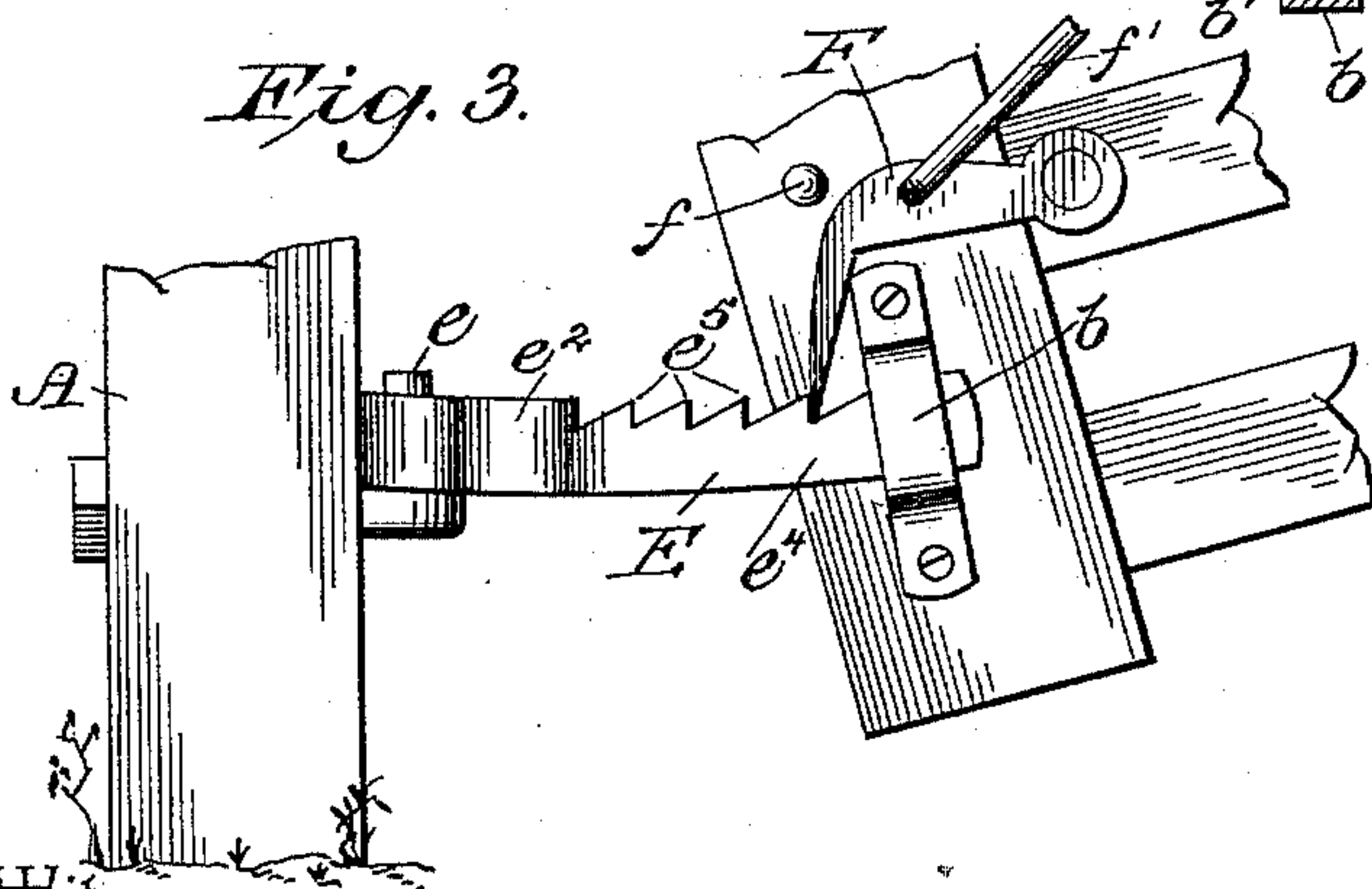
Patented Dec. 15, 1891.



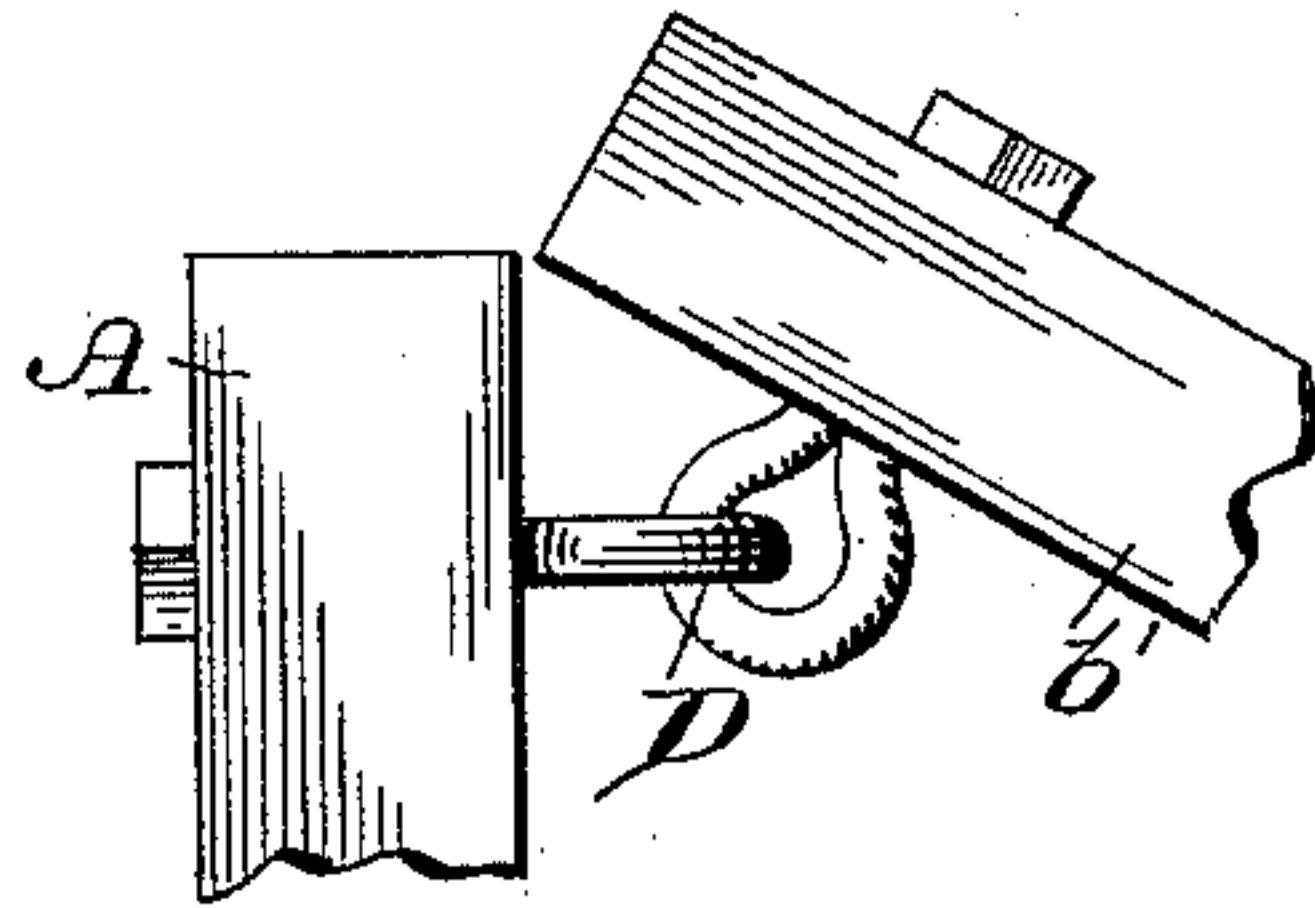
*Fig. 2*



*Fig. 3*



*Fig. 4*



Witnesses

L. M. Hallahan

J. Edgar Smith

By his Attorneys,

C. A. Snow & Co.

Inventor  
Wm. R. Liddle



# UNITED STATES PATENT OFFICE.

WILLIAM R. LIDDLE, OF MARENGO, IOWA.

## GATE.

SPECIFICATION forming part of Letters Patent No. 465,097, dated December 15, 1891.

Application filed December 18, 1890. Renewed November 9, 1891. Serial No. 411,328. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM R. LIDDLE, a citizen of the United States, residing at Marengo, in the county of Iowa and State of Iowa, have invented a new and useful Gate, of which the following is a specification.

My invention is an improvement in gates, and has for its objects to provide a gate which may be swung to either side of the post, which may be tilted to any convenient angle in order to avoid snow banks, rocks, or the like, or to correct any sagging in the post, or in order to allow ingress and egress to small stock while excluding larger cattle from passing; and, furthermore, it has for its objects to provide a simple, strong, and practical farm-gate which will be inexpensive in construction and durable in use.

With these objects in view the invention resides in the various novel details of construction and in combination of parts hereinafter fully described, and particularly pointed out in the claims.

In the drawings in which I have illustrated my invention, and in which like letters and figures of reference indicate corresponding parts, Figure 1 is a side elevation of one side of my gate, showing it in its normal position. Fig. 2 is a longitudinal sectional view of the lower part of the hinged post and a portion of the gate, showing in detail the parts of the lower hinge. Fig. 3 is a side elevation showing the lower hinge tilting the gate, unessential portions being broken away. Fig. 4 is a detail view showing the upper hinge as the same is tilted, the portion unessential to this view being omitted.

In the drawings, the letter A designates a hinge-post, B a gate, and C a shutting-post. D indicates an upper hinge, which is composed of two similar interlocking eyebolts, the one secured to the hinging-post and the other to the gate.

E is a tilting hinge, composed of a pintle  $e$ , secured to the hinging-post A, an eye  $e'$ , embracing said pintle, a shank  $e^2$ , connecting said eye with the bayonet-shaped parallel curved arms  $e^3$  and  $e^4$ , the latter of which is provided with teeth  $e^5$  upon its upper edge, forming a curved rack-bar. Upon the gate B similar metal loops or guides  $b$  are provided on either side of the rear brace  $b'$ , which is of

such a width as to fit within the arms  $e^3$  and  $e^4$  for the purpose of holding the same in position.

An angle dog or pawl F is pivoted to the gate above the guide  $b$  on one side and is limited in movement by the said guide and by a stop  $f$  above it. To the dog F is pivoted a rod  $f'$ , connecting it with a bell-crank lever  $f^2$ , pivoted at the top of the outer end of the gate. A latch or stop G is provided on the shutting-post. It will readily be seen that by a pull exerted upon the rod  $f'$  through the bell-crank lever  $f^2$  the dog F would be raised out of a tooth in the curved rack-bar  $e^4$ , and the gate could be tilted to such an angle as might be desired for any purpose and held thereto by simply releasing the dog F into the proper tooth; or the gate might be swung entirely off of the curved arms  $e^3$  and  $e^4$ , and, being still hinged at the top by the swivel-hinge D, could be moved in any desired position. It will also be seen that I may swing my gate to either side, as there is nothing to interfere with its motion.

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

1. The combination of the hinge-post, the gate, an upper swivel-hinge connecting the two, and a lower hinge composed of an eye embracing a pintle secured to the hinge-post, two parallel curved bayonet-arms, one of which has its upper edge toothed, the said arms embracing the rear brace of the gate and passing through guides thereon, a shank connecting the eye with the arms, and a pivoted dog upon the gate engaging the toothed arm, substantially as and for the purpose set forth.

2. The combination of the hinge-post A, the gate B, an upper swivel-hinge D, connecting the two, a lower rack-bar hinge E, the dog F, and the rod  $f'$ , connecting said dog with the lever  $f^2$ , pivoted at the upper outer end of the gate, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM R. LIDDLE.

Witnesses:

ED. PANSE,  
C. HEDGES.