

W. A. FORD.

GATE.

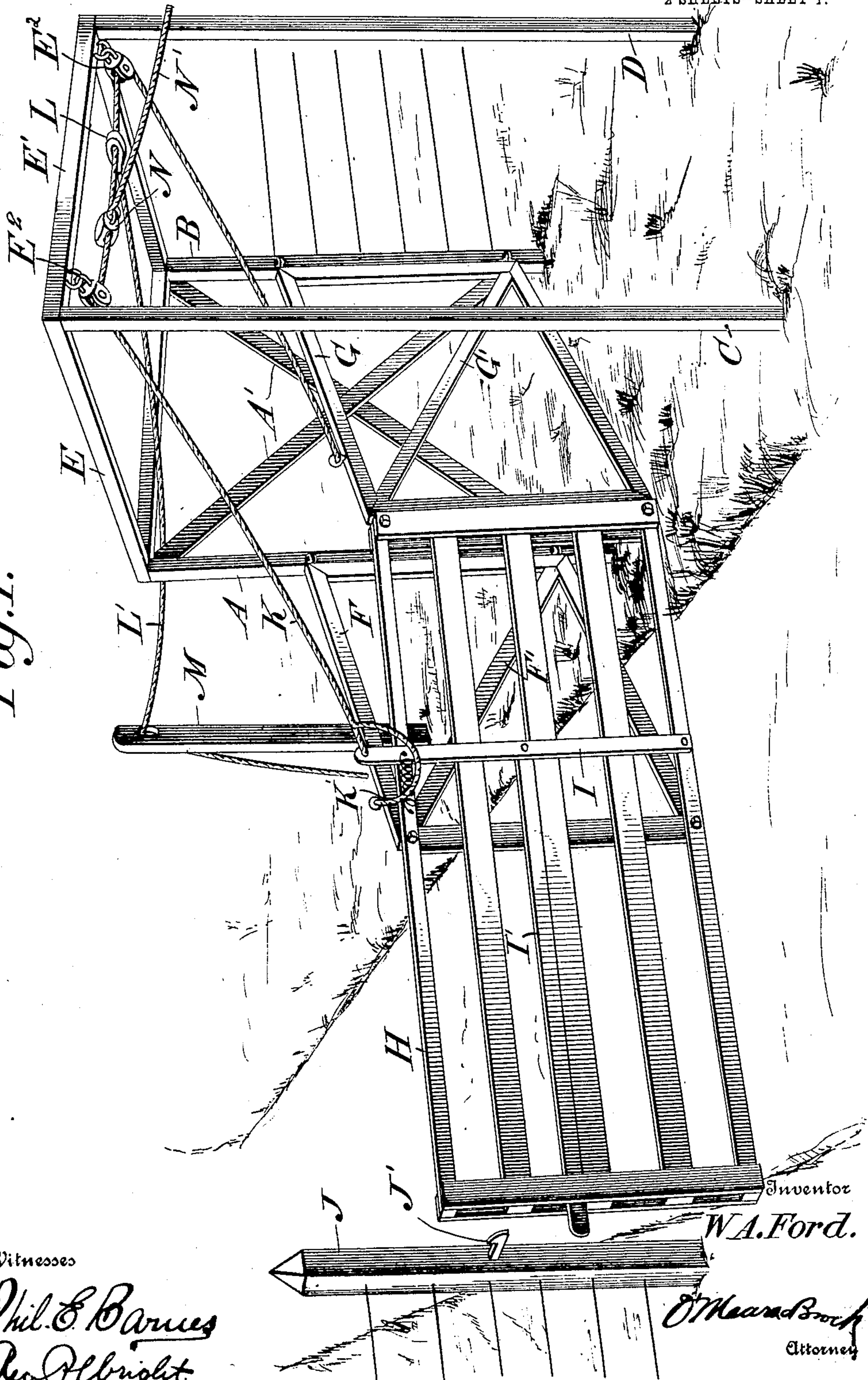
APPLICATION FILED MAY 20, 1907.

913,120.

Patented Feb. 23, 1909.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses

Phil. E. Barnes
Geo. D. Wright

Inventor

W.A. Ford.

O'Meara & Brock
Attorney

W. A. FORD.
GATE.

APPLICATION FILED MAY 20, 1907.

913,120.

Patented Feb. 23, 1909.
2 SHEETS—SHEET 2.

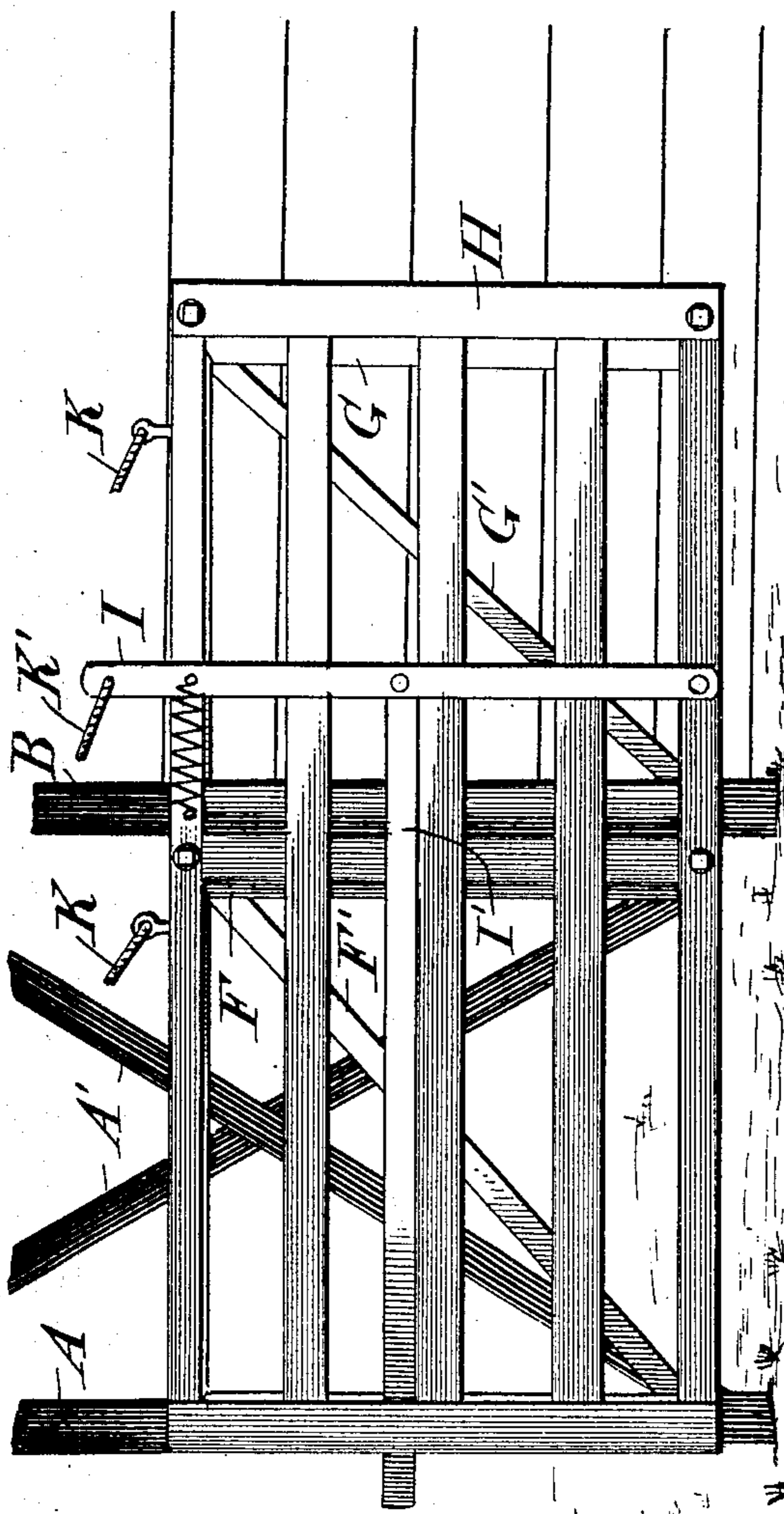


Fig. 2.

Witnesses

Phil. C. Barnes
Geo. D. Wright

By

Fig. 3.

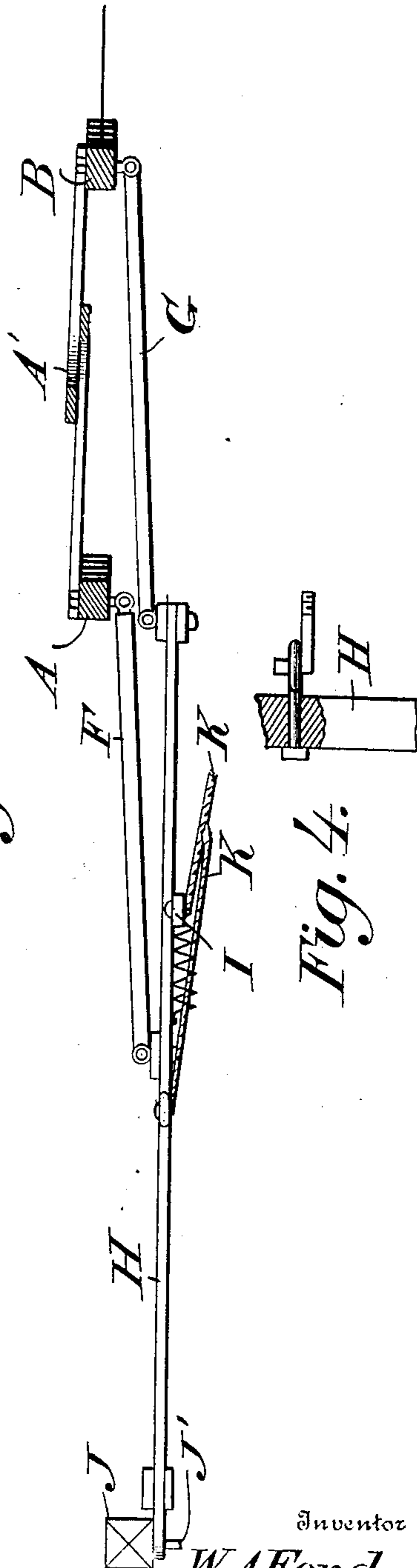


Fig. 4.

Inventor

W. A. Ford.

O'Meara & Brock

Attorney

UNITED STATES PATENT OFFICE.

WHALEY ANACE FORD, OF TEKOA, WASHINGTON, ASSIGNOR OF ONE-HALF TO JOHN YADON,
OF TEKOA, WASHINGTON.

GATE.

No. 913,120.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed May 20, 1907. Serial No. 374,661.

To all whom it may concern:

Be it known that I, WHALEY ANACE FORD, a citizen of the United States, residing at Tekoa, in the county of Whitman and State of Washington, have invented a new and useful Improvement in Gates, of which the following is a specification.

This invention relates to gates and more particularly to hand-opening devices, the object of the invention being to provide very novel and efficient opening and closing mechanism, which can be readily operated without alighting from a vehicle.

Another object of my invention is to provide a gate so constructed that when opened it will be swung back out of the way so that it will not be broken accidentally by the vehicle passing through the same.

Another object of my invention is to provide a gate which is carried by a pair of hinged frames which are operated by cables attached to each side of the gate.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In these drawings forming a part of this specification: Figure 1 is a perspective view of my improved gate partly opened. Fig. 2 is a side elevational view of my improved gate opened, the operating mechanism being broken away. Fig. 3 is a top plan view of the gate proper. Fig. 4 is a detail view of one of the posts showing the hinge.

In the drawings A, B C and D indicate posts arranged on one side of the road, the posts A and B being in alinement with the fence. The latter posts lean slightly toward the road and are connected together by braces A'. Mounted on the posts A, B, C and D is a rectangular frame E, the side bar E' of which is provided with pulleys E² adjacent its end, for the purpose hereinafter fully described. Hinged to the posts A and B are a pair of rectangular frames F and G provided with braces F', G' carrying at their ends an ordinary gate frame H. The frame F is hinged to the central vertical bar of the gate and the frame G is hinged to the end-vertical bars of the gate, so that the gate can be swung back up against the fence, when pulled open. A lever I is pivoted to the lower bar of the gate carrying a latch-bar

I' adapted to engage a catch J' secured in the fence-post J on the opposite side of the road. A coiled spring connects the lever to the top bar of the gate so that the latch bar will be securely held in the catch on the gate-post. Connected to the upper end of the lever is a cable K which carries a branch cable K' which is connected to an eye secured on the frame F, adjacent its outer end. This cable extends backwardly and upwardly over the pulleys E² carried by the bar E' and has its other end secured in an eye carried by the top bar of the frame G. Mounted on the cable K between the pulleys E² is a pulley L carrying a cable L' which passes over a pulley arranged in a post M arranged along-side the road. A pulley N is also arranged on the cable between the pulleys E² carrying a cable N' which extends out over a pulley arranged in a post to the other side, not shown.

The operation of the gate is as follows:— When it is desired to open the gate, the gate of course being closed, one of the cables L', N' is pulled which draws on the cable K which releases the latch from the catch and as the cable is pulled further the strain will be brought on the frames F and G which will swing the gate outwardly and back up against the fence. After the vehicles have passed through the gate, the opposite cable is pulled which will draw the gate outward and as the cable is released, the gate will swing closed by gravity as the frames carrying the gate are mounted on the inclined posts A and B.

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

1. In a gate, the combination with posts, of frames hinged to said posts, a gate hinged to the free ends of said frames, one of said frames being connected to one end of said gate and the other to the center of said gate, a cable mounted in pulleys carried by said posts having its ends connected to said hinged frames and means for operating said cable for the purpose described.

2. In a gate, the combination with posts carrying a fixed rectangular frame, of frames hinged to two of said posts, a gate hinged to the free ends of said hinged frames, a lever carried by said gate carrying a latch bar, and a cable connected to said frames and

lever passing over pulleys carried by the fixed frame and operating means loosely connected to said cable.

3. In a gate, the combination with posts 5 carrying a fixed frame, of frames hinged to said posts carrying a gate pulleys carried by the fixed frame of said posts, a cable passing over said pulleys connected to said hinged frames and means for operating said cable.

10 4. In a gate, the combination with posts having a fixed frame mounted thereon carrying pulleys, of frames hinged to two of said posts carrying a gate, a spring actuated lever carried by said gate carrying the latch, 15 a cable passing over said pulleys connected to said hinged frames and lever, and pulleys mounted on said cable carrying cables for operating said cable.

20 5. In a gate, the combination with posts, of frames hinged to said posts and carrying a gate, a second set of posts arranged to one side of the first mentioned posts, a fixed frame carried by said posts, pulleys carried

by said frame, a cable carried by said pulleys and connected to the hinged frames, pulleys 25 mounted on said cable and cables attached to the last mentioned pulleys and passing over the pulleys carried by the distant supports.

6. In a gate, the combination with posts, 30 a fixed frame mounted on said posts, hinged frames carried by two of the posts, a gate hinged to the free ends of said hinged frames, a keeper carried by another post, a spring actuated latch carried by the gate and 35 adapted to engage the keeper, pulleys carried by the fixed frame, a cable mounted over said pulleys, and secured to the hinged frame and latch respectively, pulleys carried by said cable and cables attached to the 40 second mentioned pulleys and running to distant supports.

WHALEY ANACE FORD.

Witnesses:

JNO. R. PATTERSON,

J. L. MONTGOMERY.