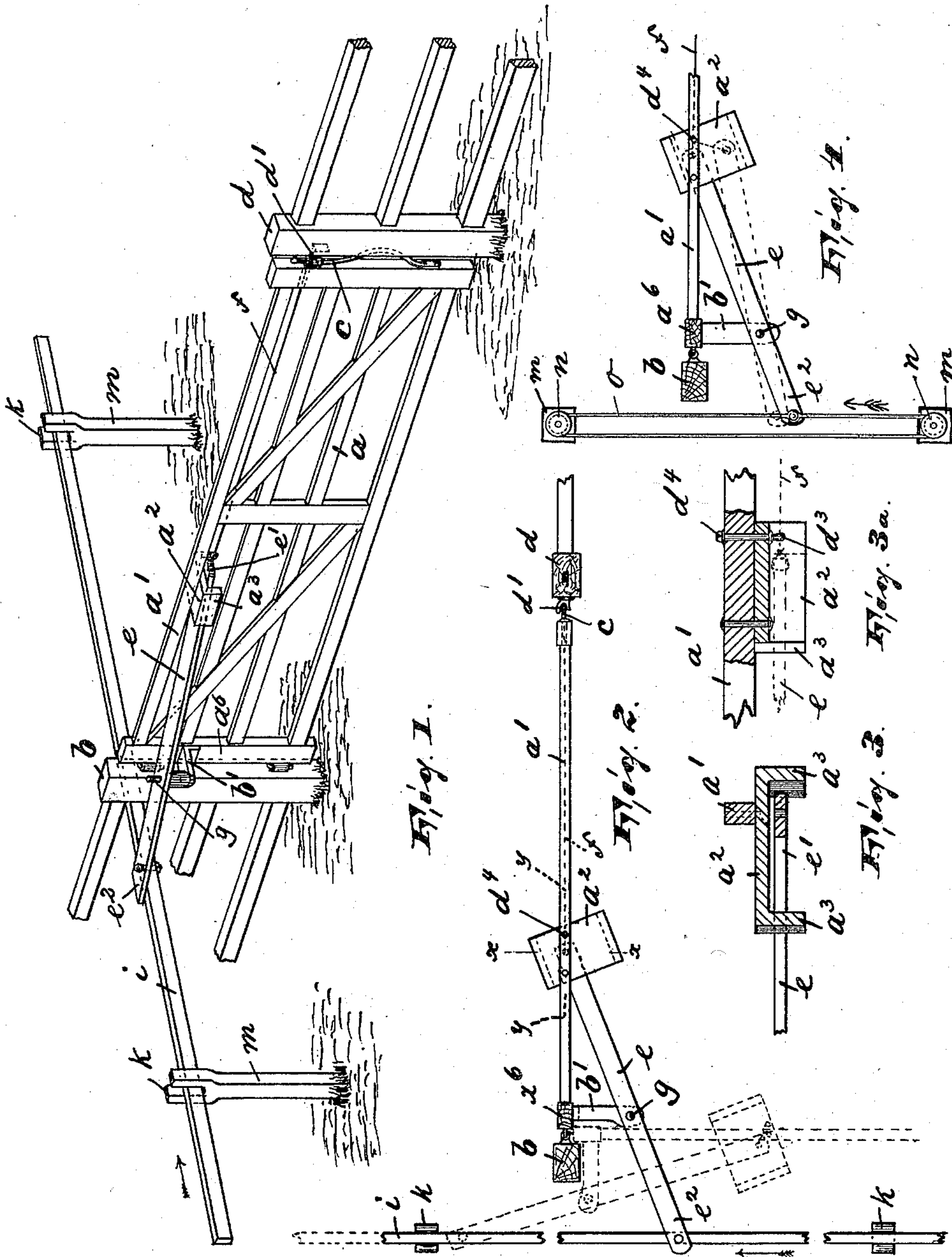


(No Model.)

H. STONGE.
GATE.

No. 598,541.

Patented Feb. 8, 1898.



WITNESSES:

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HARVEY STONGE, OF WESTON, CANADA.

GATE.

SPECIFICATION forming part of Letters Patent No. 598,541, dated February 8, 1898.

Application filed August 27, 1897. Serial No. 649,739. (No model.)

To all whom it may concern:

Be it known that I, HARVEY STONGE, a citizen of the Dominion of Canada, residing in the village of Weston, in the county of York and Province of Ontario, Canada, have invented certain new and useful Improvements in Gates, of which the following is a full, clear, and exact specification.

My invention relates to improvements in farm and other gates; and its object is to provide such gates with simple, strong, and durable means whereby persons riding in a vehicle or on horseback can readily and quickly open and close said gates without alighting.

The invention consists in the improved gate, its operating mechanism, and in the combination and arrangement of the various parts, substantially as will be hereinafter more fully described, and finally embodied in the clauses of the claim.

In the accompanying drawings, Figure 1 is a perspective view of a gate provided with my improvements; Fig. 2, a top plan view of Fig. 1 with certain portions broken away; Fig. 3, an enlarged sectional view on the line $x x$ of Fig. 2; Fig. 3^a, an enlarged detail sectional view on the line $y y$ of Fig. 2, only the guide-block and the adjoining portion of the gate being shown; and Fig. 4, a view similar to Fig. 2 and illustrating a slight modification, the right-hand portion of said figure being removed.

In said drawings, a represents a farm-gate of ordinary construction and suitably hinged at one end to the post b , while its other end is provided with a spring-latch c , adapted to engage a suitable catch d' on the post d .

On the upper rail a' of the gate a is secured a guide-block a^2 , which guide-block is preferably arranged at an angle to said rail a' and is provided with downwardly-extending flanges or sides a^3 , adapted to be engaged by the free end e' of a horizontally-arranged lever e . The free end e' of said lever e is also connected with the spring-latch c by a cord f , which cord passes through an eyelet d^3 , which latter is preferably integral with the bolt d^4 , by means of which the guide-block is secured to the upper rail a' , and which bolt and eyelet are in close proximity to the end e' of the lever e .

The lever e is pivotally arranged on an upwardly-extending pin g , mounted on a bracket b' , secured to and projecting from the upright rear or hinge rail a^6 of the gate a , while its projecting end e^2 is pivotally connected to a reciprocating hand-bar i at right angles to the gate a when in closed position and is slidingly arranged in suitable fork-shaped guides $k k$ on posts $m m$.

In the form illustrated in Fig. 4 the rear end e^2 of the lever e is pivotally connected with an endless cord or chain o , passing over pulleys $n n$, which latter are suitably mounted on the posts $m m$, and which endless cord or chain acts as a substitute for the sliding hand-rail i , as will be manifest.

When it is desired to operate the gate, the bar i is pushed or pulled in the direction of the arrow, Figs. 1 and 2, or the rope, Fig. 4, is operated in said direction, causing the lever e to be turned on its fulcrum or pivot g , thereby through the cord f releasing the spring-latch c from its catch d' and at the same time pressing with its free end e' against one of the downwardly-extending flanges or sides a^3 of the guide-block a^2 and causing the gate a to swing open on its hinges.

The closing of the gate is accomplished by simply moving the bar i or rope o in the opposite direction until the spring-latch c again engages the catch d' .

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

1. The combination with a hinge-post, of a gate, a spring-latch carried thereby, a catch-post and catch, a guide-block secured to the top rail of the gate and provided on opposite sides with downwardly-extending flanges, a lever suitably fulcrumed to the rear or hinge rail of said gate and having its inner end loosely arranged in said guide-block and adapted to engage one of the downwardly-extending flanges thereof, a cord connecting the inner end of said lever with the spring-latch, and operating means pivotally connected with the outer end of said lever and at right angles to the gate when in closed position, substantially as and for the purposes described.

2. The combination with a hinge-post, of a gate, a spring-latch carried thereby, a catch-

post and catch, a guide-block secured, to the
top rail of the gate and provided on opposite
sides with downwardly-extending flanges, a
lever suitably fulcrumed to the rear or hinge
5 rail of said gate and having its inner end
loosely arranged in said guide-block and
adapted to engage one of the downwardly-
extending flanges thereof, a cord connecting
the inner end of said lever with the spring-
10 latch, a hand-bar slidingly arranged and at

right angles to the gate when in closed posi-
tion and pivotally connected with the outer
end of said lever, and suitable guides for said
hand-bar, substantially as shown and de-
scribed.

Toronto, August 18, A. D. 1897.

HARVEY STONGE.

In presence of—

EDWARD GALLOW,

E. A. FORSTER.