

No. 35,591.

PATENTED JUNE 17, 1862.

W. DONNAN.
STOCK GATE FOR WATER COURSES.

Fig. 1.

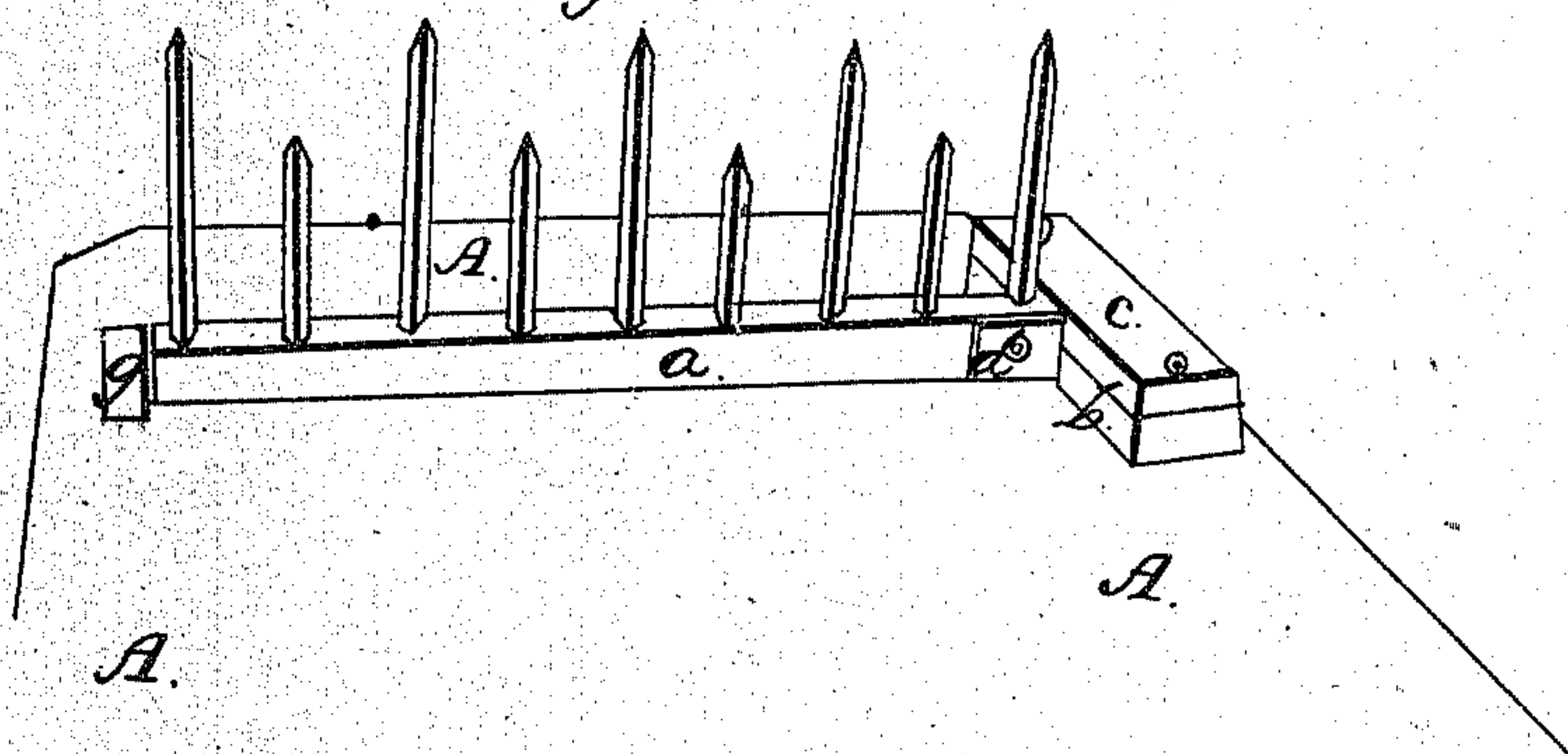
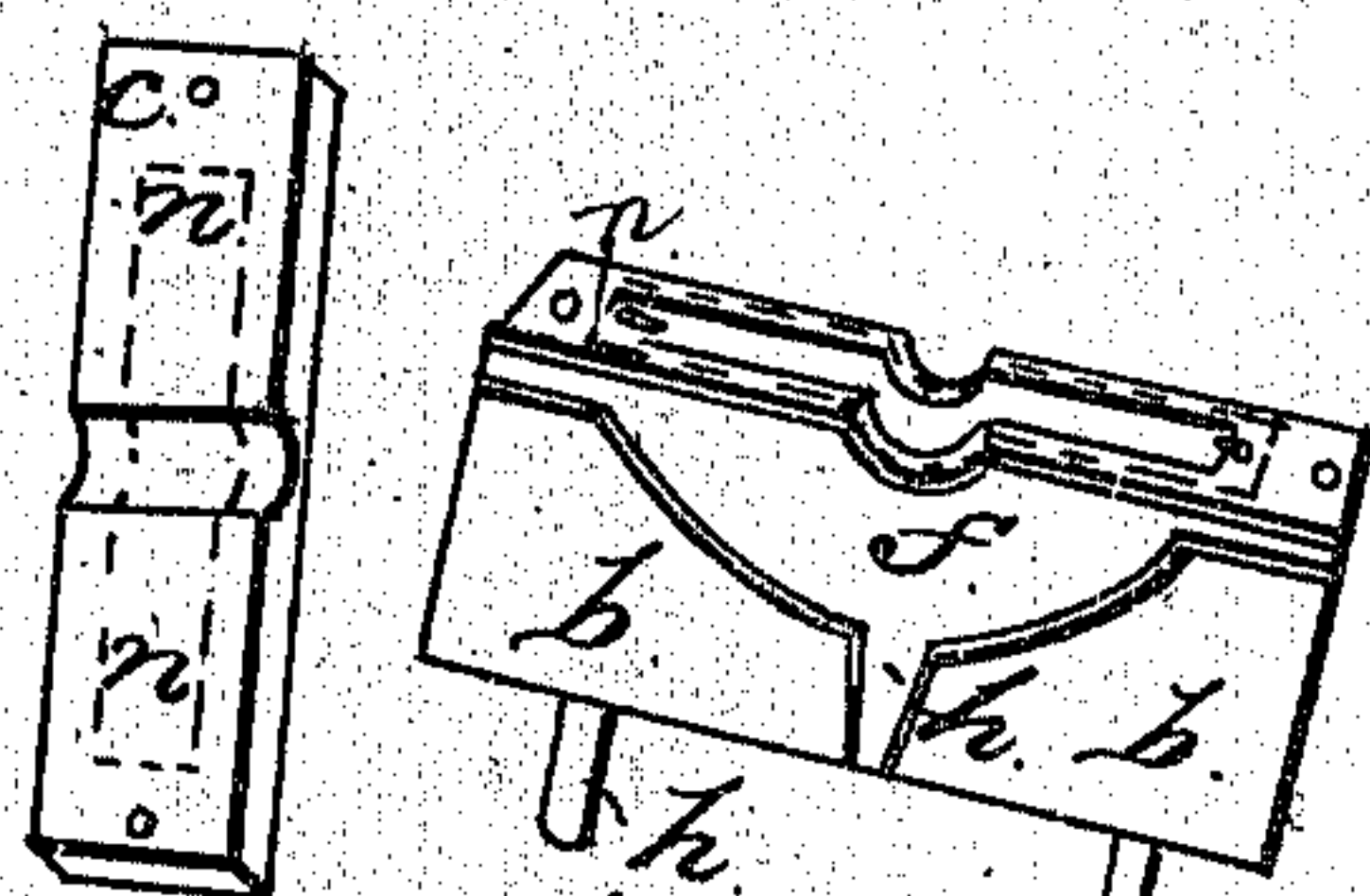
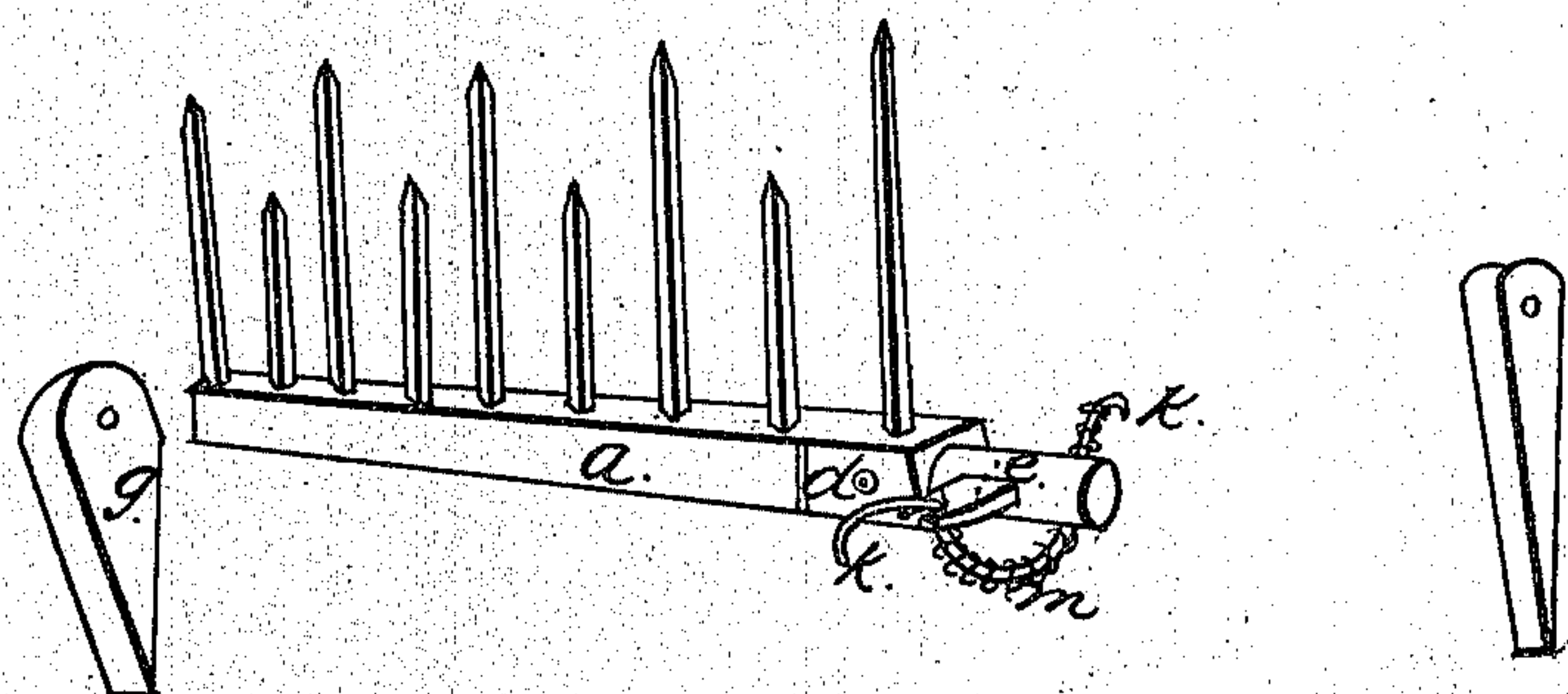
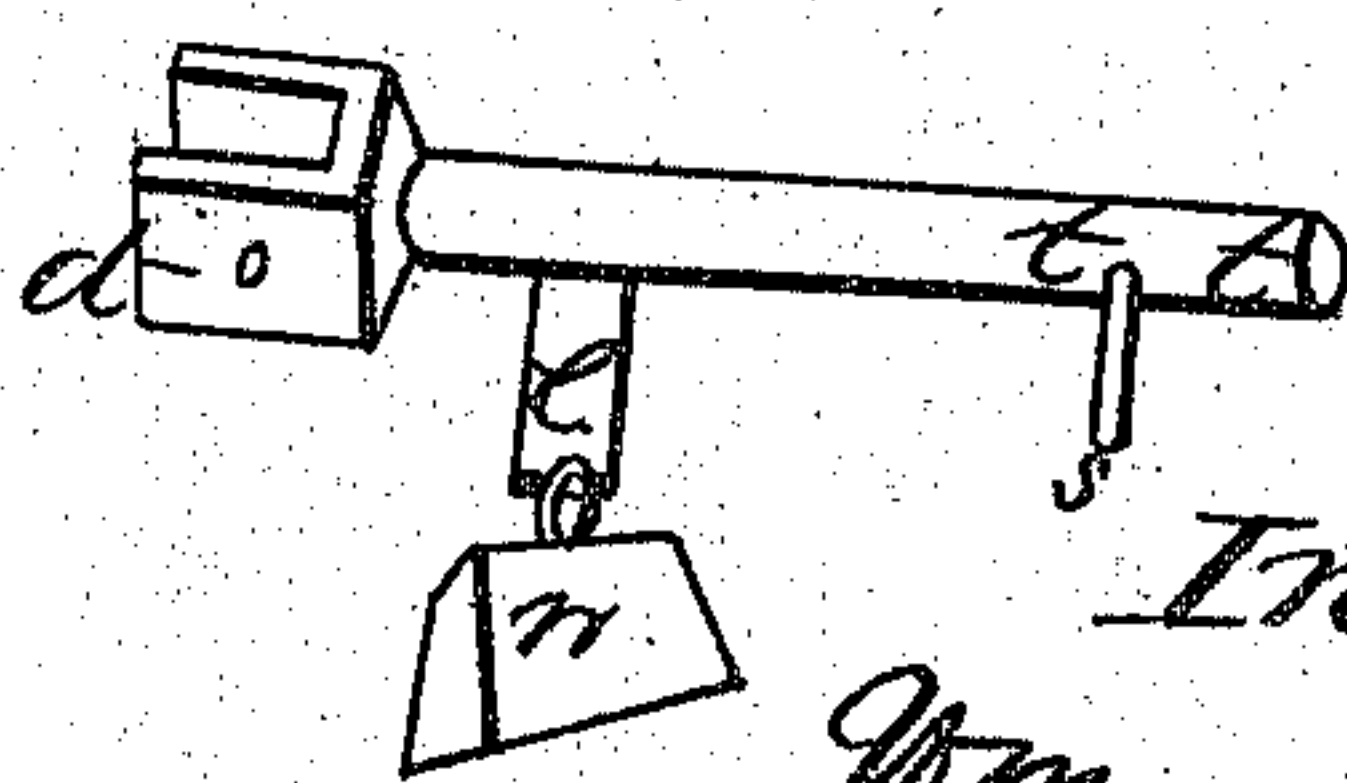
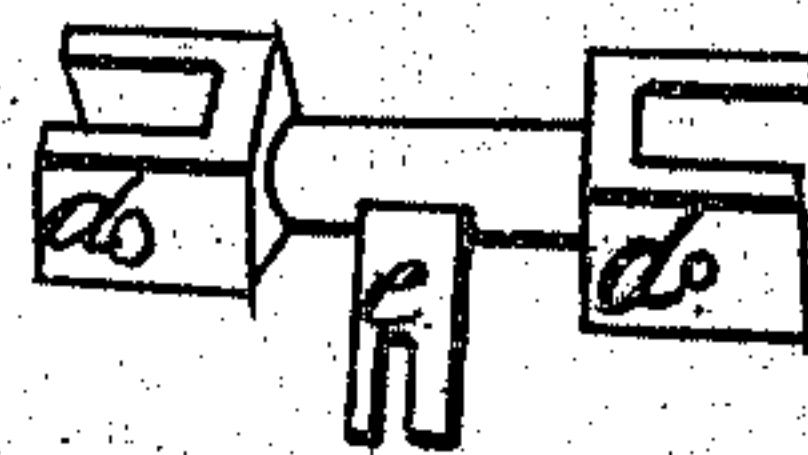


Fig. 2.



Witnesses:
S. P. Riddle
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Inventor
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UNITED STATES PATENT OFFICE.

WILLIAM DONNAN, OF BURGETTSTOWN, PENNSYLVANIA.

IMPROVEMENT IN STOCK-GATES FOR WATER-COURSES.

Specification forming part of Letters Patent No. 35,591, dated June 17, 1862.

To all whom it may concern:

Be it known that I, WILLIAM DONNAN, of Burgettstown, in the county of Washington, in the State of Pennsylvania, have invented a new and Improved Stock-Gate for Brooks; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in a rake-shaped gate head-piece, wood or metal with lever attached, or lever and axle separate, with clamp or other device into or upon which the end of the gate-head is secured, the whole to be operated upon by a weight or a spiral or other spring inside of a metal or wooden box in such a way that by means of the weight or spring on or against the lever the gate will be brought back to an erect position after drift has passed over.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 is a perspective view of my improved gate. Fig. 2 is a view of the same out of the box, showing the lever and spring.

Similar letters of reference in each of the figures indicate corresponding parts.

A A A represent the bottom of the brook.

a represents the head-piece of the gate, which should contain enough upright pieces, wood or metal, secured into or upon it to prevent stock from passing through.

b is a box, which contains the lever and spring, and c is its lid.

d is the clamp or clasp which holds the gate in its place.

e is a forked lever having a washer underneath between the lever and the spring.

f represents the shape of the box when made of metal.

g is a post to hold one end of the gate.

h h h are feet to the boxes, to be sunk in the ground or rock to steady them. k k is a wire, to be dropped in a groove in the top of the box to hold the spring in its place.

m is a spiral spring.

n n n is a groove, to be filled with tow and tallow, or other device, to keep out the water.

t t show one end of the axle, which may go into the head-piece of the gate to hold and steady it instead of a clamp, if preferred.

s is a pin, to go through head-piece and axle.

w is a weight, that may be used instead of a spring.

From the foregoing it must be obvious that when everything is in its place the upright pieces of the gate will yield to the pressure of drift and let it pass over. The spring or weight operating on the lever will bring the gate to its proper position again.

This gate will be particularly adapted to wide brooks. There will be no obstruction whatever, let the channel be wide or narrow, equally cheap by the foot, and in winter can be taken out or dropped in its place to avoid ice.

What I claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of a rake-shaped gate with its head-piece close to the bottom of the brook, and operated on by means of the lever e and spring m or weight w, inside of the metal box f or wooden box b, substantially as and for the purposes set forth.

WM. DONNAN.

Witnesses:

S. P. RIDDLE,

BENJAMIN F. WOOD.