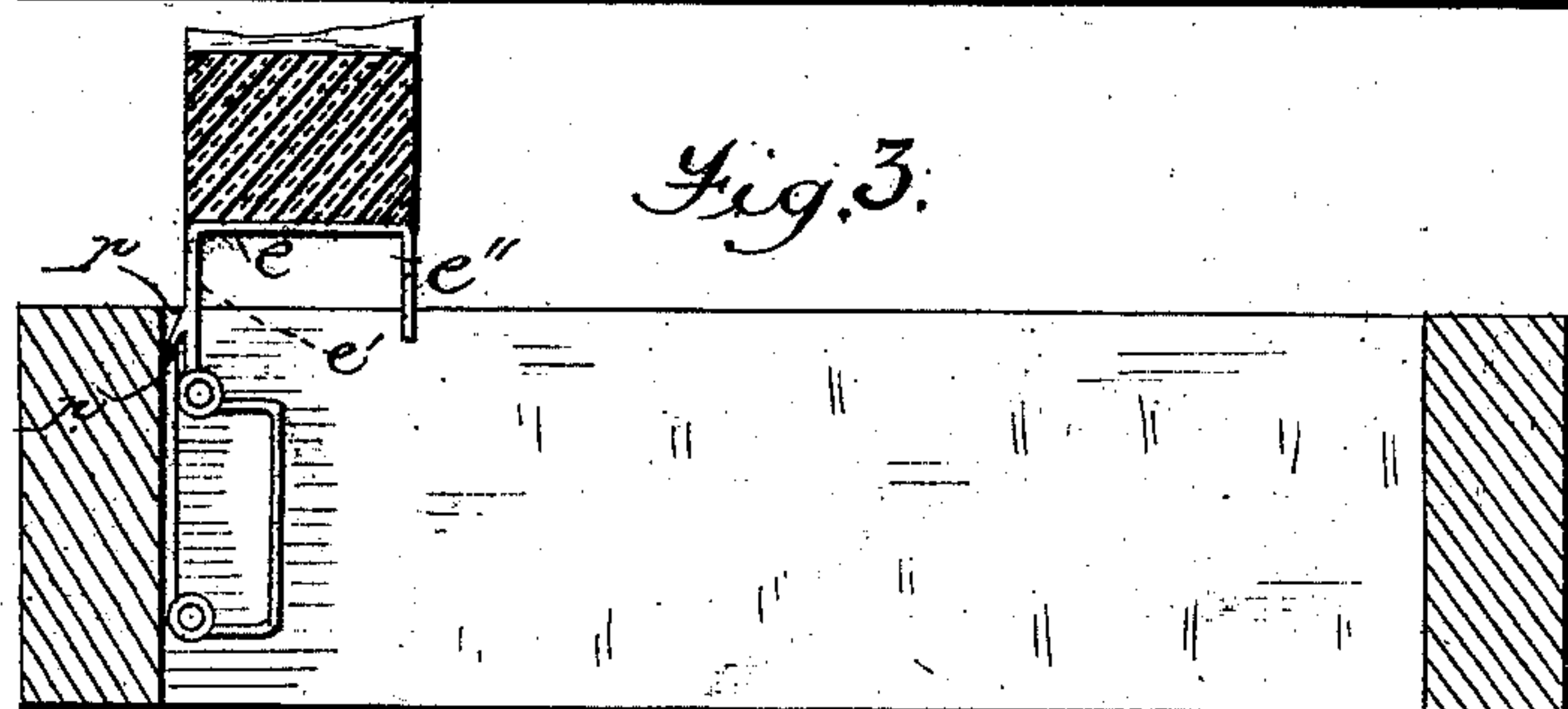
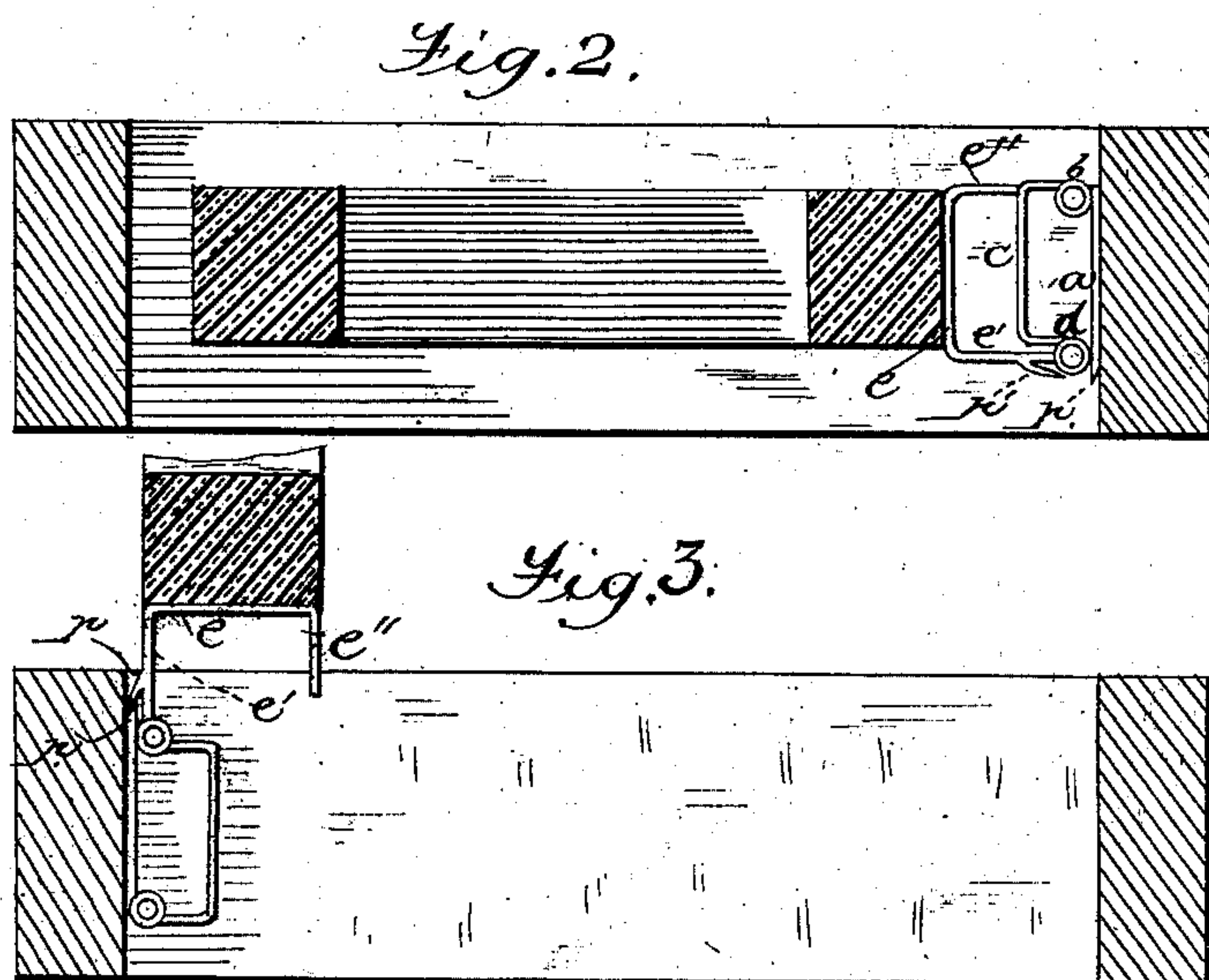
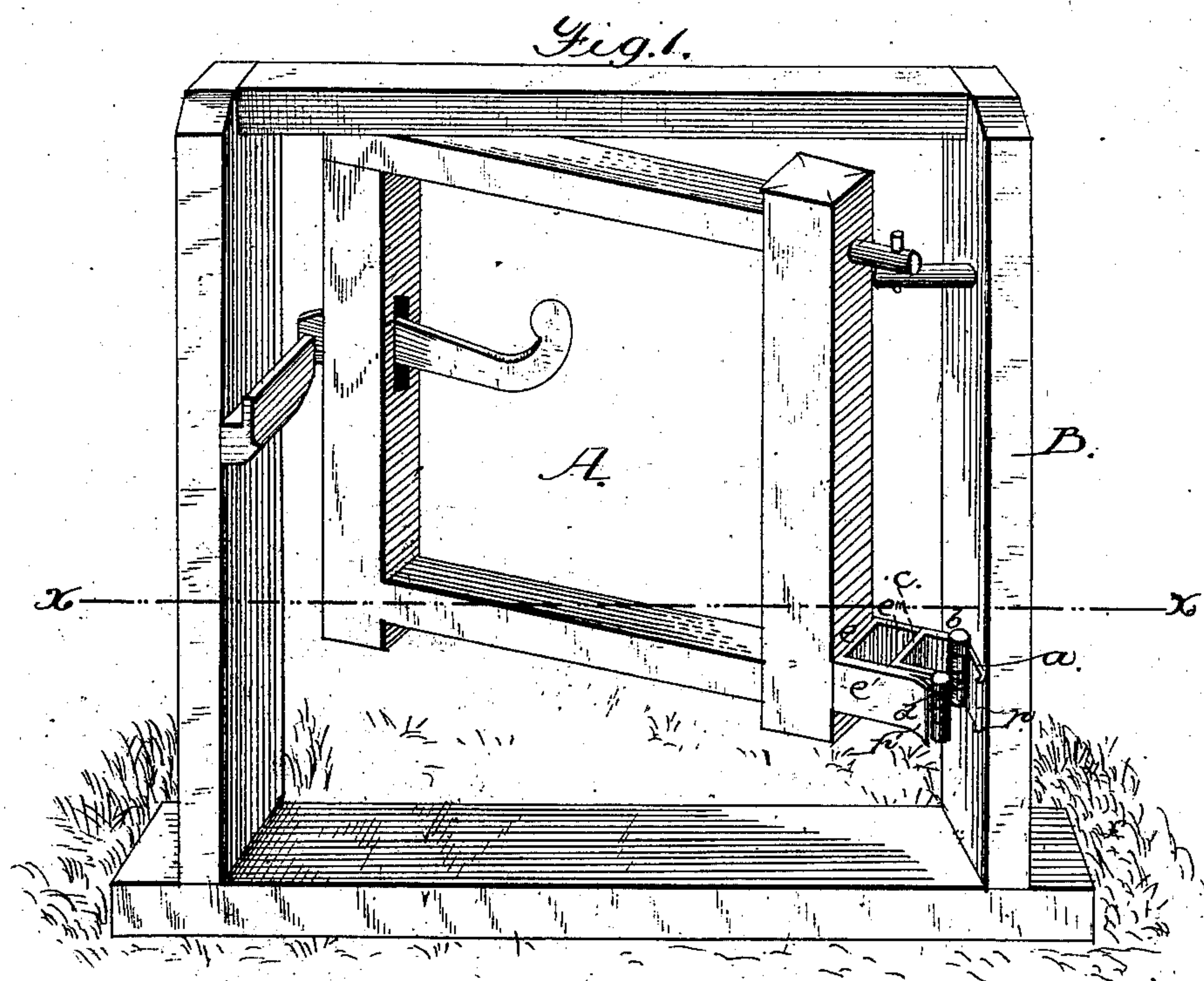


(No Model.)

W. W. ROBINSON.
Gate-Hinge.

No. 227,838.

Patented May 18, 1880.



Witnesses;

J. Walter Fowler,
W. H. Morrell

Inventor;

W. W. Robinson
by A. N. Evans & Co
Atty

UNITED STATES PATENT OFFICE.

WILLIAM W. ROBINSON, OF RIPON, WISCONSIN.

GATE-HINGE.

SPECIFICATION forming part of Letters Patent No. 227,838, dated May 18, 1880.

Application filed March 22, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. ROBINSON, of Ripon, county of Fond du Lac, State of Wisconsin, have invented a new and useful Improvement in Gate-Hinges; and I hereby declare the following to be a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, and in which—

Figure 1 is a perspective view. Figs. 2 and 3 are plan views of the hinge in two positions.

My invention relates to hinges which allow the gate to be opened in both directions; and the invention consists in certain details of construction, as hereinafter more fully described and claimed.

In order that those skilled in the art may make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the said drawings, A is a gate, and B the gate-post from which it is hung. The upper hinge on the gate is located about in a central vertical line, and is a simple pintle-hinge.

The lower hinge is constructed as follows: It is attached to the post by means of a plate, *a*, at the end of which is pivoted, as seen at *b*, a plate, *c*, bent so that in a cross-sectional line it is three sides of a parallelogram. To the end of this plate *c*, at *d*, is pivoted a plate, *e*, of a construction somewhat similar to plate *c*, one of the short sides, *e'*, being of unequal—greater—length than the other. The long side of plate *e* is bolted to the gate, as shown, and when the gate is closed the end of side *e''* of

plate *e* lies against plate *c* and braces the gate. The end of plate *a* has a stop, *p*, on its end, against which the stop *p'* on the end of plate *a* abuts when the gate is opened in the direction shown in Fig. 3, thus, by an end-thrust, preventing any cross strain on the plates.

It will be observed that in the construction of this hinge, when the gate is opened in either direction, the central vertical line of the gate is so thrown at the base from a central position that the gate will automatically close by its own weight.

From the construction described it will be seen that this hinge can be made very cheaply, as it is made of plates of thin rolled or other iron and does not require any particular forgings or castings, which are required in other hinges of this class.

The stop prevents an undue lateral strain on plate *e* when the gate is thrown open.

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

The hinge composed of the plate *a* and plate *c*, bent so as to be in cross-section three sides of a parallelogram, pivoted together at *b*, and bent plate *e*, having one of the short sides longer than the other and pivoted to plate *c* at *d*, and the stop *p p'*, as set forth.

WILLIAM W. ROBINSON.

Attest:

J. W. HALL,
F. A. HALL.