(No Model.)

A. E. JESTER.

GATE HINGE.

No. 351,513. Patented Oct. 26, 1886.

Fig. 1.

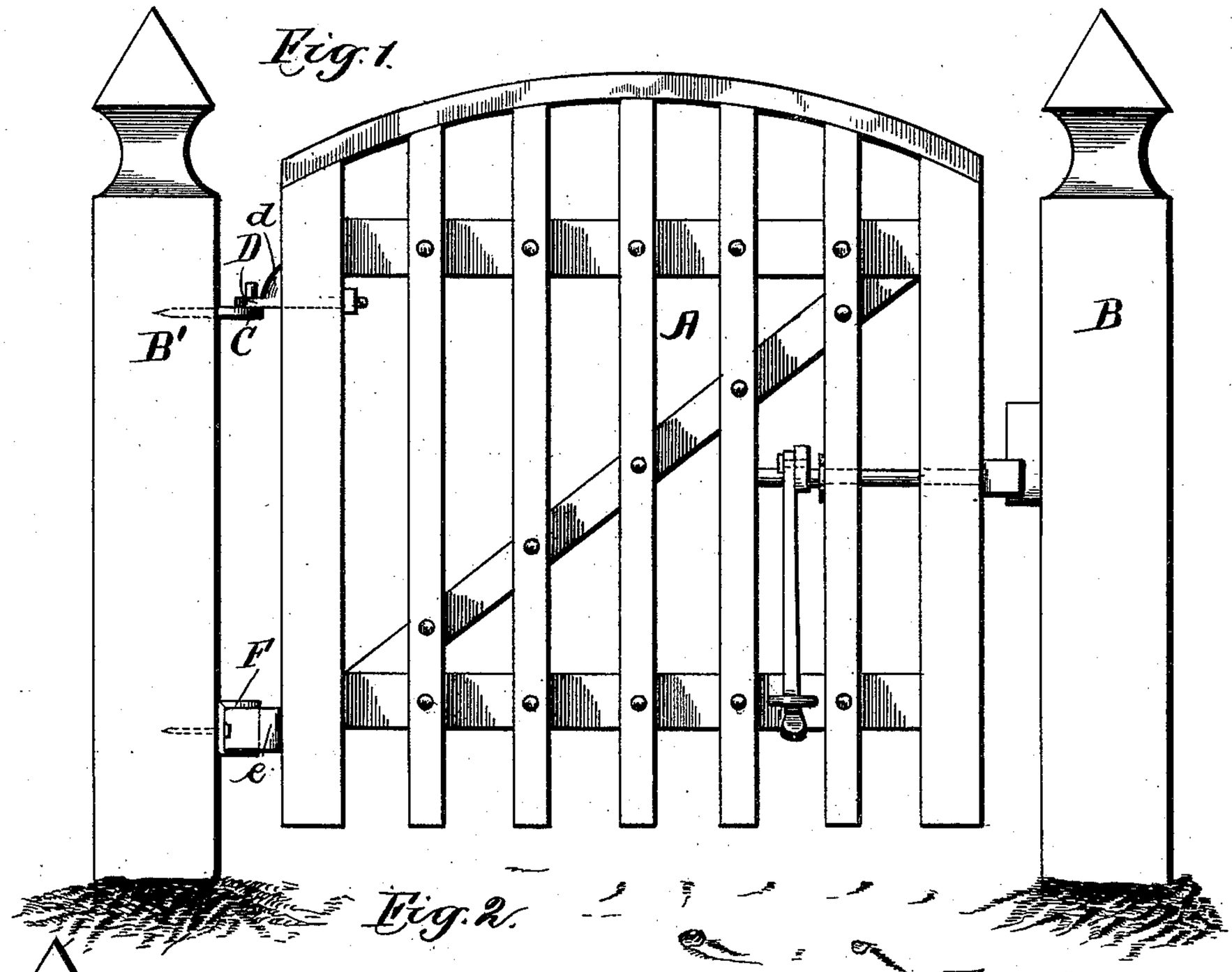


Fig. 2.

Fig. 3.

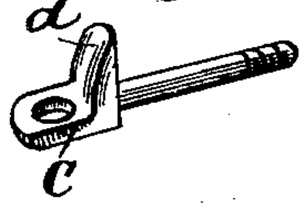


Fig. 4 f'

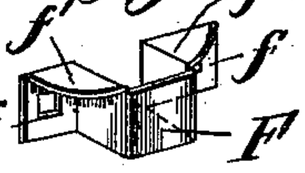
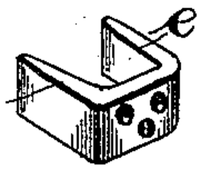


Fig. 5 e



Witnesses
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UNITED STATES PATENT OFFICE.

ANDREW EDMON JESTER, OF JESTER, TENNESSEE.

GATE-HINGE.

SPECIFICATION forming part of Letters Patent No. 351,513, dated October 26, 1886.

Application filed August 9, 1886. Serial No. 210,437. (No model.)

To all whom it may concern:

Be it known that I, ANDREW EDMON JESTER, a citizen of the United States, residing at Jester, in the county of Chester and State of Tennessee, have invented certain new and useful Improvements in Gate-Hinges; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to gates of that class which are closed by gravity; and it consists in the peculiar construction of the hinge, as more fully hereinafter set forth, claimed, and shown in the annexed drawings, in which—

Figure 1 is a front view of a gate of my construction provided with my improved hinge. Fig. 2 is a view showing the gate open. Fig. 3 is a perspective view of the upper eye or hinge bolt. Fig. 4 is a perspective view of the part of the lower hinge designed to be attached to the gate-post. Fig. 5 is a perspective view of the part designed to be applied to the gate-batten.

The gate A, which may be of any approved form, is provided with a catch on its front end to automatically engage with the gate-post B, or a stop thereon, and hold it when closed. This catch may be of any well-known form; but it is preferably the one forming the subject-matter of a separate application filed of an even date herewith, Serial No. 210,436. The rear end batten has an eye-bolt near its upper end which is adapted to engage with the stud-bolt C, fastened to the gate-post B′, and support the gate. The lower end of the batten has secured thereto a plate, E, provided with arms *e*, branching at right angles therefrom, which are adapted to embrace a projection or raised portion, F, secured to the gate-post B′, directly opposite.

The plate E and its arms may be formed of a single casting or of a single short piece of flat metal having its ends bent at right angles. The raised portion F may likewise be a casting, and has lateral flanges *f*, by which it is secured to the post, and flanges *f′*, projecting from its top and filling the angular space between the lateral flanges and the sides of the raised portion. The flanges *f′* are adapted to fit over the top of the arms *e* when the gate is closed, and prevent its vertical movement and unhinging by stock in attempting to pass beneath it. The raised portion and flanges *f* may be formed of a single piece of sheet or plate metal, together with the flanges *f′*, which may be bent from the sides of the raised portion, or from the ends of the flanges *f*, as desired.

The eyebolt D has an arm or extension, *d*, projecting upward and adapted to rest against the side of the gate-batten, to act as a brace and prevent the apertured end from being bent upward. This is an important feature, as the whole weight of the gate comes upon the upper hinge, and the great strain would bend an eyebolt as commonly constructed.

In practice, the gate normally rests in a vertical position, which is when closed; but when opened one arm or the other engages with the side of the raised portion, and pushes the gate out of plumb in such manner that when released it (the gate) will gravitate and automatically close itself in a manner well understood.

By my construction, which is simple, the gate may be readily taken down and as quickly adjusted by any person or farm-hand.

The devices may be kept in stock and sold as ordinary hinges, and can be applied to gates and doors with as much ease as the ordinary hinge, and when so applied form a self-closing hinge.

The inner ends of the arms are beveled slightly, to permit their free movement about the raised portion of the casting, the corners of which are rounded.

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

The combination, with the gate-post and the gate hinged thereto at its upper end, of a casting having a raised portion and flanges extending laterally on each side of the raised portion, secured near the lower end of the post, and a plate fastened to the batten of the gate opposite the casting, and provided with arms to embrace the sides of the raised portion and engage with the flanges to prevent vertical displacement of the gate, substantially as and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ANDREW EDMON JESTER.

Witnesses:

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HUGH ROSS.