

(No Model.)

G. H. MITCHELL.
FARM GATE.

No. 466,830.

Patented Jan. 12, 1892.

Fig. 1.

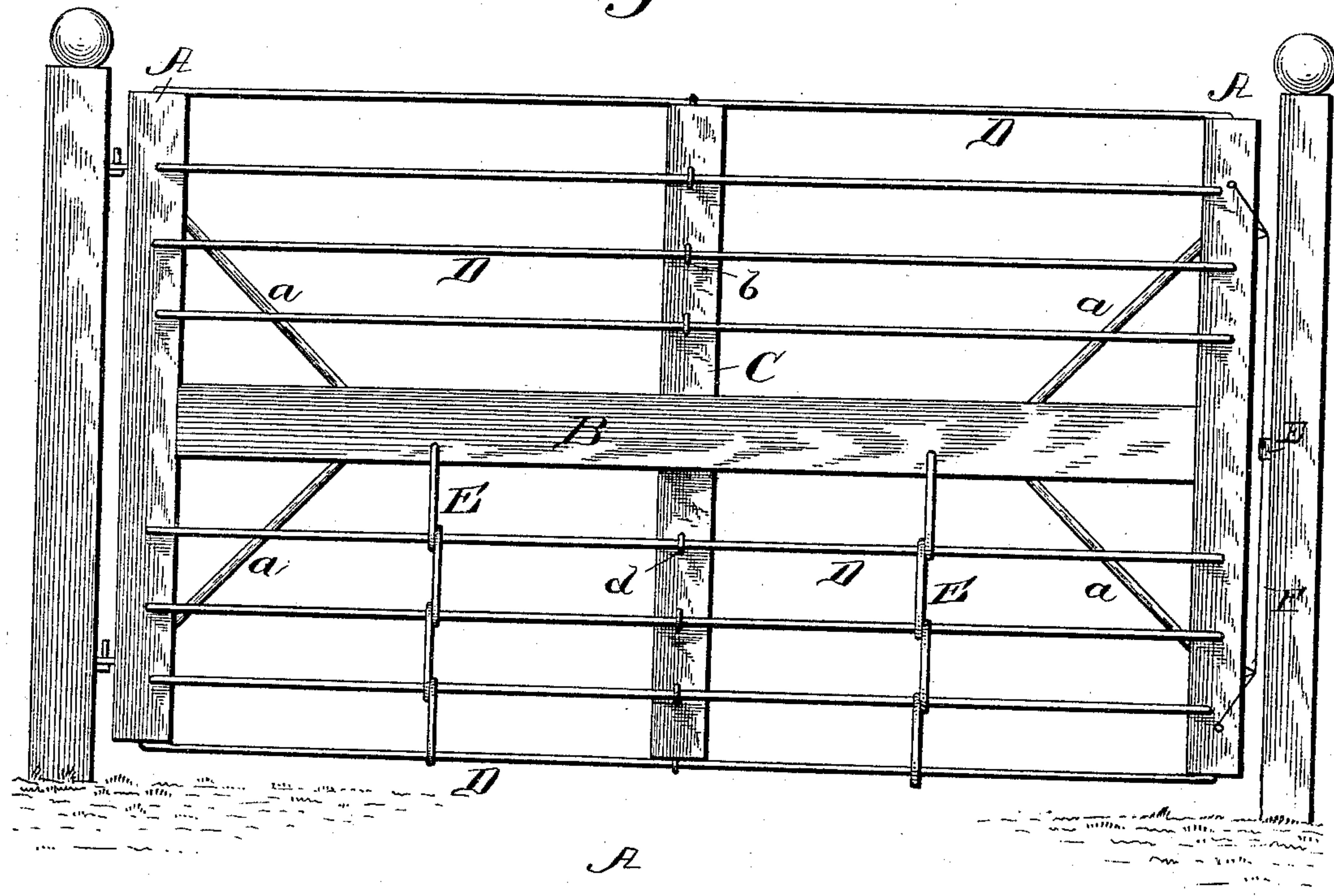


Fig. 4.

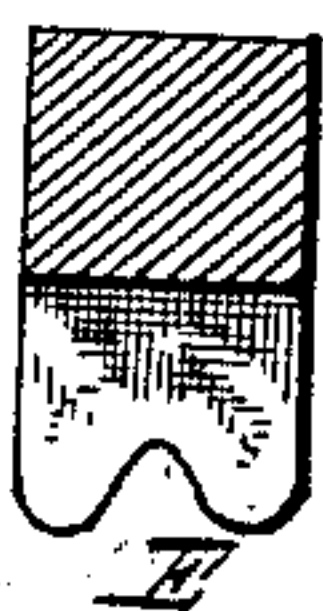


Fig. 2.

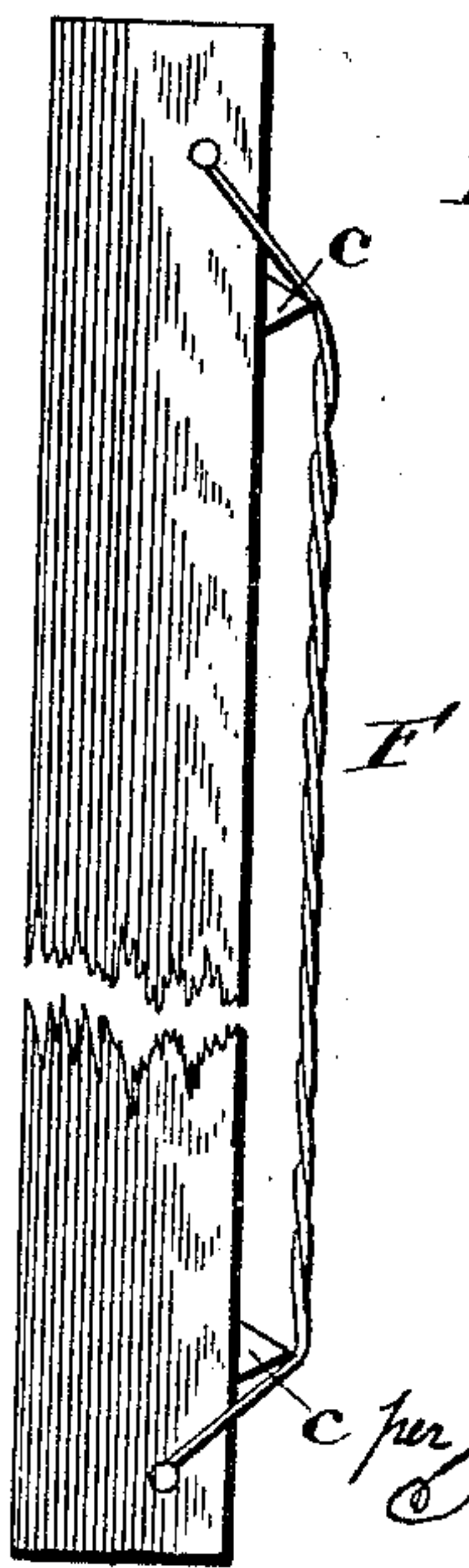
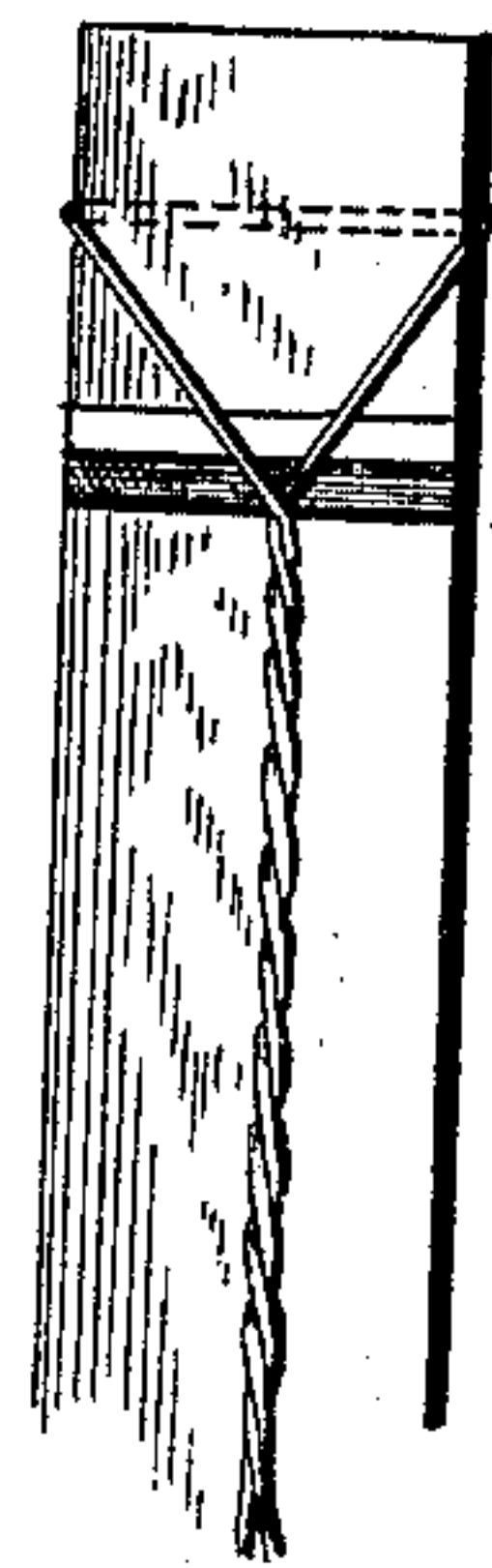


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE H. MITCHELL, OF IDAVILLE, INDIANA.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 466,830, dated January 12, 1892.

Application filed March 20, 1891. Serial No. 385,802. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. MITCHELL, a citizen of the United States of America, residing at Idaville, in the county of White and State of Indiana, have invented certain new and useful Improvements in Farm-Gates, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to certain improvements in gates, more especially farm-gates, having for its object to reduce the number of parts thereof to the minimum and to secure the said parts together in a simple and efficient manner, as also to effect the automatic latching of the gate; and to these ends the invention consists in the detailed construction and combination of parts, substantially as hereinafter more fully disclosed.

20 In the accompanying drawings, Figure 1 is a side elevation of my improved gate. Fig. 2 is a detail view of the latch end of the gate. Fig. 3 is a broken detail view thereof; and Fig. 4 is a cross-sectional view of the gate-post, showing the catch in plan.

25 In the embodiment of my invention I construct the gate principally of two end pieces A, a horizontal or longitudinal piece or bar B, secured thereto, and a centrally transverse piece or bar C, centrally secured to said longitudinal piece, all preferably of wood. The end pieces A and the longitudinal or horizontal piece or bar B are mutually braced in position by means of the short oblique struts or braces *a*, arranged two above and two below said longitudinal piece or bar and having their ends embedded or let into mortises or notches in said end pieces and bar, respectively. The gate thus far constructed is filled in with lengths of wire or stringers D, passing through staples or eyes *b* upon the central transverse piece B and having their ends secured in any suitable manner to the pieces A, it may be by being looped or bound around the same. Stays or braces E in the form of

wires twisted upon and crossing the lower wires or stringers D and secured to the longitudinal or horizontal bar B, serve to prevent the ready upward displacement or bending of the wires or stringers by small animals attempting to pass under the gate out of the inclosure, thus preventing their leaving the same and wandering away.

F is the spring-latch, which consists of several intertwisted strands or pieces of spring-wire stretched after the fashion of applying the strings of a stringed musical instrument across the apices of triangular or conical blocks or cross-pieces *c*, secured to the forward one of the end A, said wire strands having their ends passed through the holes in said end piece and then twisted together. Thus it will be seen that as the gate closes the spring-wire strands of the latch thus formed will snap or spring into engagement with the catch or notched plate E of the gate-post, and thus effect the automatic latching of the gate. It is obvious that the spring-wire strands will as readily yield when pressure is oppositely applied by hand to the gate, and thus allow the unlatching of the gate. It will also be seen that the number of parts in the gate is reduced to the minimum, while they are readily assembled and secured in place in a simple and effective manner.

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

A gate having a spring-latch formed of wire stretched across bridges secured to its forward end piece, in combination with a notched catch upon the latch-post adapted to engage said latch, substantially as set forth.

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

GEORGE H. MITCHELL.

Witnesses:

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