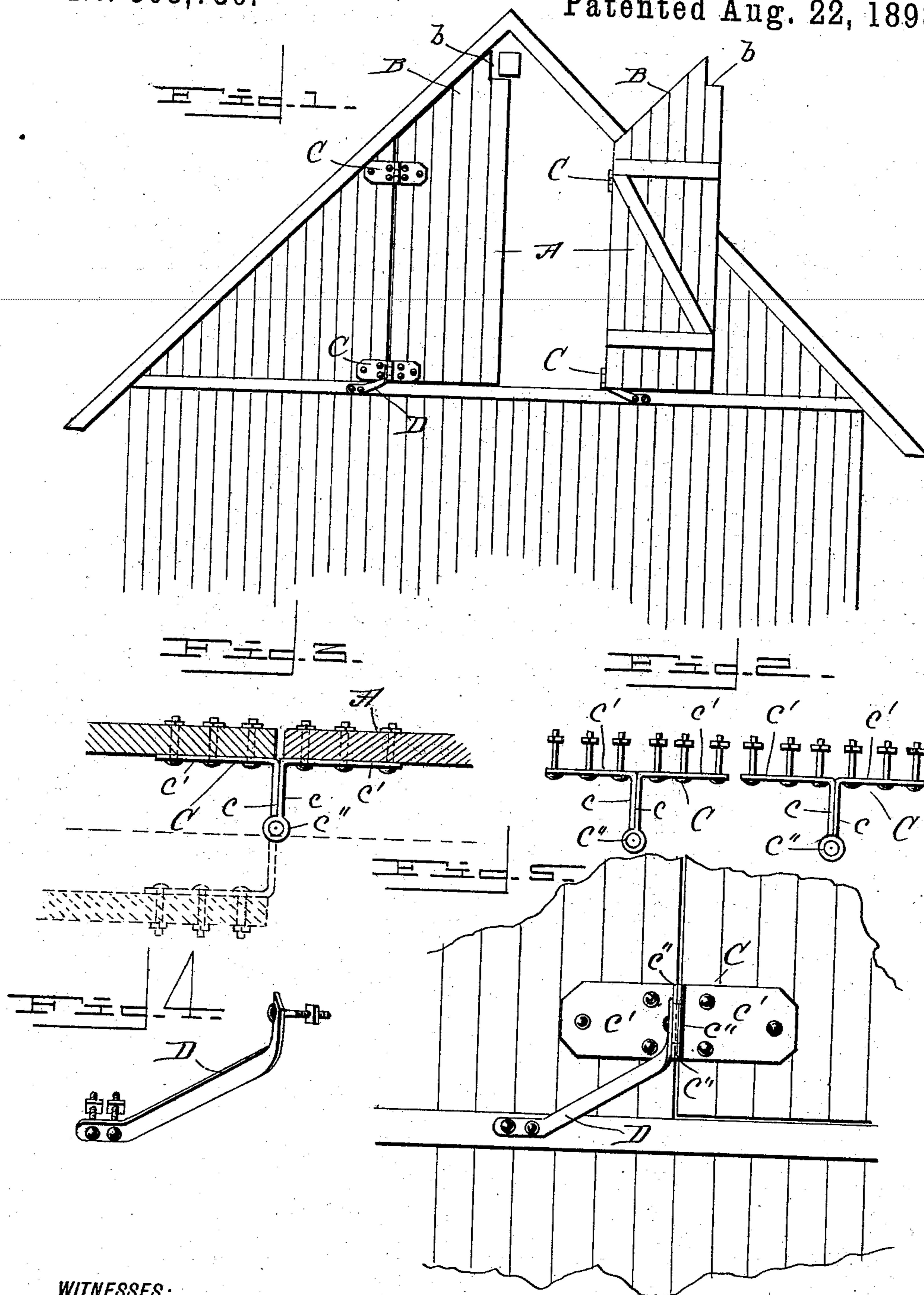


(No Model.)

N. E. WILSON.
DOOR AND HINGE.

No. 503,730.

Patented Aug. 22, 1893.



WITNESSES:

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NICHOLAS E. WILSON, OF THOMPSON, IOWA.

DOOR AND HINGE.

SPECIFICATION forming part of Letters Patent No. 503,730, dated August 22, 1893.

Application filed April 10, 1893. Serial No. 469,745. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS E. WILSON, a citizen of the United States of America, residing at Thompson, in the county of Winnebago and State of Iowa, have invented certain new and useful Improvements in Doors and Hinges, of which the following is a specification.

This invention relates to an improvement in a door and the hinges on which the door is mounted and swings in opening and closing.

The principal object of the invention is to provide a door with hinges to be hung under and in proximity to the cornice of the gable end of a building so that when the door is swung open it will, by virtue of the improved form of the door and hinges, clear the cornice of the building, and when closed will fit snugly and tightly under the cornice.

A further object is to provide a door and hinges of simple construction, easily operated, and which may be cheaply manufactured.

Reference is to be had to the accompanying drawings for a clear understanding of my invention, wherein corresponding letters indicate like parts in the several views.

Figure 1, is a view in elevation of the gable end of a building, showing a pair of doors, with one door open, and the other closed, embodying my improvements. Fig. 2, is a plan view of two pairs of hinges with bolts therein for securing the hinges to the door, and to the building. Fig. 3, is a similar view showing a pair of hinges secured to a door and the gable end of a building, parts being broken away for better illustration. Fig. 4, represents a brace to be secured to the building under the stationary arm of a lower pair of hinges to prevent the hinges from sagging or breaking down by the weight of the door when open. Fig. 5, is a detail in elevation showing the brace in use.

A represents a door of suitable construction, having a triangular upper portion B, to conform to the shape of the roof of the building. This portion of the door B may be cut away at *b* to permit a rail track for a hay

carrier to project from the end of the building.

C represents the hinges. The arms of the hinges being of like construction a description of one arm of a hinge alone is given.

Hinge C consists of two members of like construction each member having arms *c* and *c'* integral and forming a right angle with each other. Arm *c* has at its outer end an eye *c''*; and arm *c'* of longer dimensions has apertures therein to permit this arm to be bolted securely to a door. The two arms *c c'* forming parts of a complete hinge are superimposed one upon the other to permit a bolt to pass through the eyes *c''*, after the arms of the hinges have been secured to the building and door in the usual well known manner of hanging doors.

D is a brace bent at a suitable angle at each end with apertures therein to permit the brace to be bolted to the building and to arm *c* of the hinge to support the hinge when the door is open.

Arm *c* of the hinge is made of sufficient length to permit the upper part of the door, when swung open, to clear the cornice of the building. This obviates the necessity of having sliding doors which are more expensive to construct, apt to get out of order, and which, oftentimes, in small buildings can not be used advantageously on account of the limited space for a door. At the same time, my improved door when opened provides a larger area and working space for carrying goods and materials in and out from the building than is usual with ordinary doors under such conditions.

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

1. A door having an upper portion shaped to conform to the pitch of the roof of the building to which it is hung when closed, in combination with hinges C, having arms *c, c'*, and a brace to support the stationary part of the lower hinge, substantially as described and set forth.

2. The combination of a door having an upper triangular shaped portion, hinges C having arms of sufficient length to permit the door when opened to clear the cornice of the
5 roof near which it is mounted, and a brace D, as and for the purposes set forth.

3. A door having a triangular upper portion, mounted in the gable end of a building, hinges having arms to permit the door to

swing clear of the cornice of the roof, and a brace for hinges, substantially as described and set forth.

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

NICHOLAS E. WILSON.

Witnesses:

E. E. BREWSTER,

D. J. AGER.