

No. 737,722.

PATENTED SEPT. 1, 1903.

N. H. EMERY.
HAY RACK.

APPLICATION FILED APR. 21, 1903.

NO MODEL.

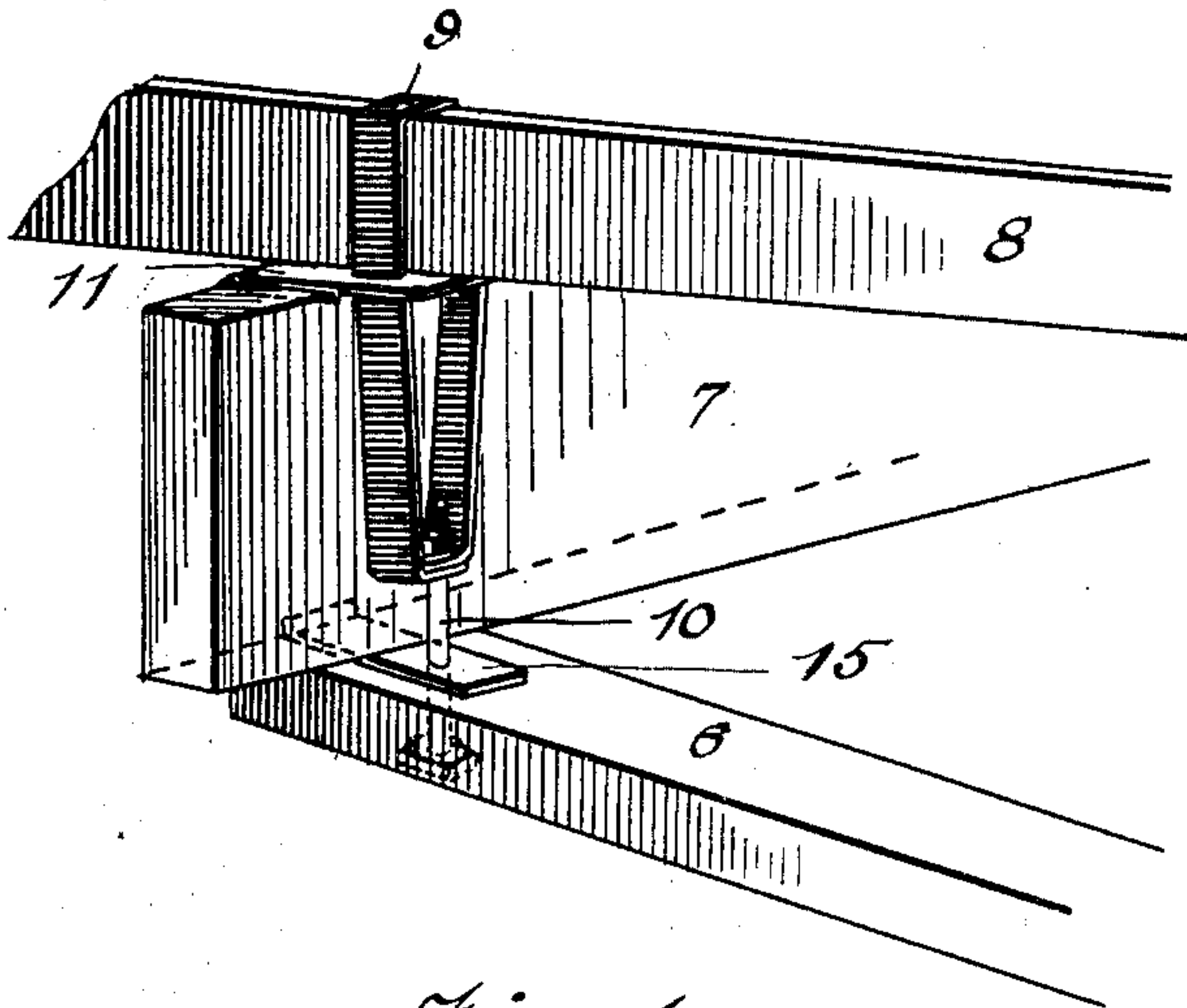


Fig. 1.

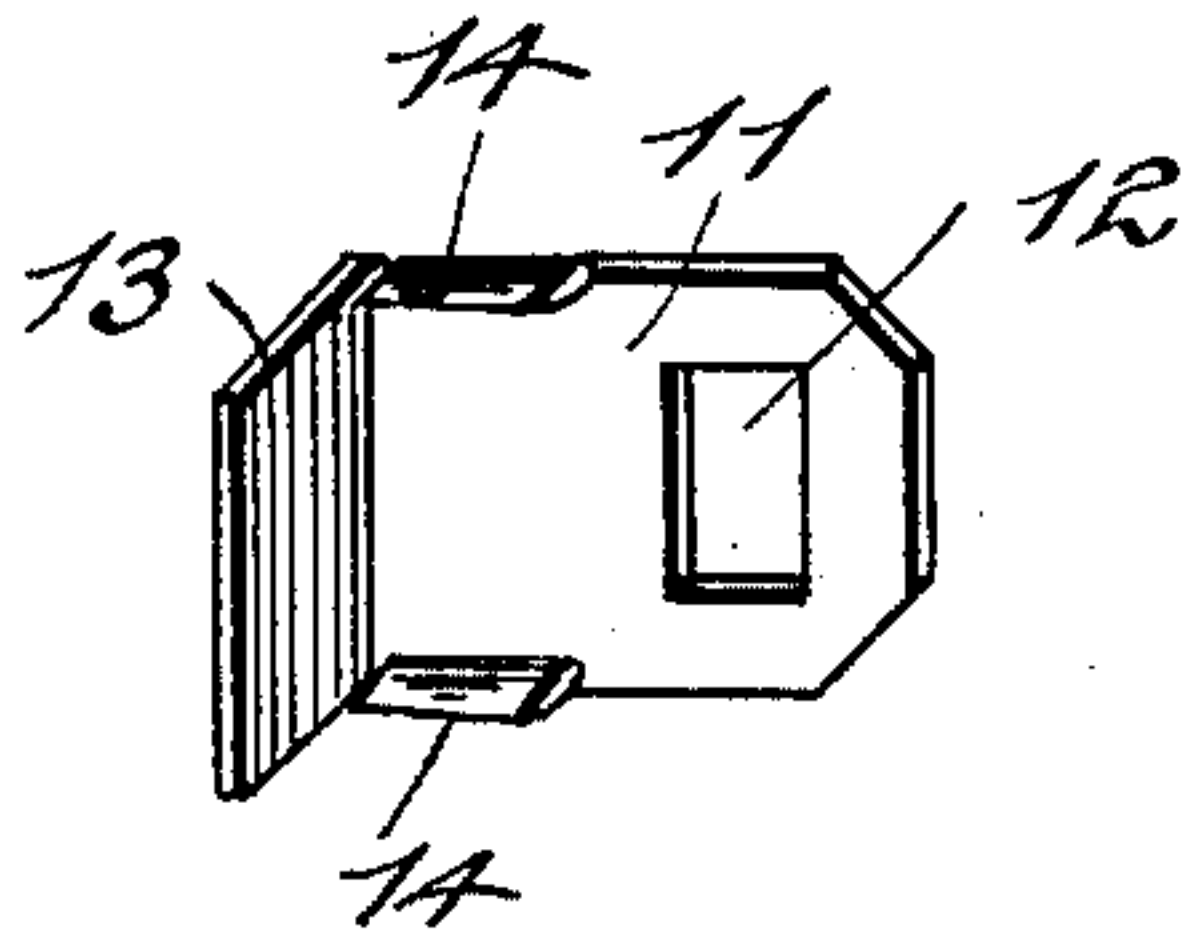
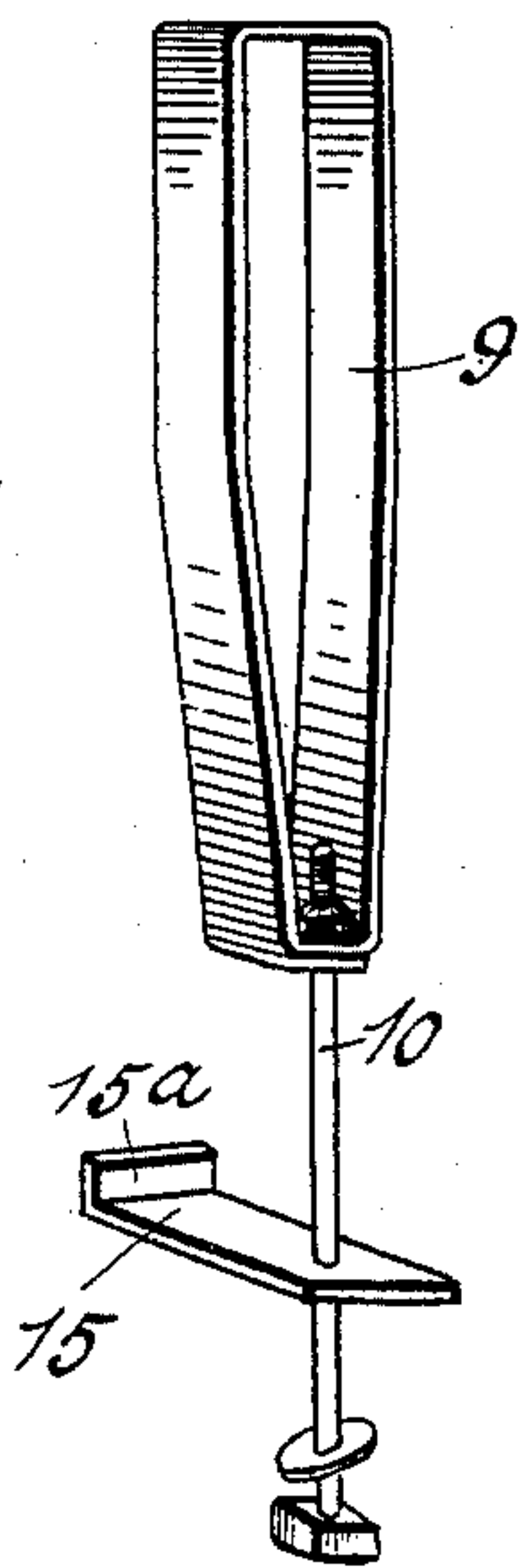


Fig. 2.

Fig. 3.

Witnesses

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NED H. EMERY, OF SIOUX CITY, IOWA, ASSIGNOR OF ONE-HALF TO
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HAY-RACK.

SPECIFICATION forming part of Letters Patent No. 737,722, dated September 1, 1903.

Application filed April 21, 1903. Serial No. 153,626. (No model.)

To all whom it may concern:

Be it known that I, NED H. EMERY, a citizen of the United States, residing at Sioux City, in the county of Woodbury and State of Iowa, have invented certain new and useful Improvements in Hay-Racks; and I do hereby 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 figures of reference marked thereon, which form a part of this specification.

This invention relates particularly to separable hay-racks, and comprises a new and improved fixture for attaching together the beams of the bed of the rack.

The object of the invention is to produce a fixture which may be easily applied and which will permit the beams to be fixed together with ease and facility.

In the accompanying drawings, Figure 1 is a perspective view of the corner of a hay-rack provided with my improvement. Fig. 2 is a perspective view of the plate-clamp which rests on the longitudinal sills. Fig. 3 is a perspective view of the fixture detached.

Referring particularly to the drawings, 6 indicates the bolster, 7 the longitudinal sill, and 8 the upper cross-piece. A loop or stirrup is indicated at 9, through the upper end of which the upper cross-piece extends and which is strained by the bolt 10, which extends through the bolster to clamp the sill between the upper cross-piece and the bolster, as shown in Fig. 1. The stirrup and bolt are fixed inside the sill, which allows the bolster to be cut off flush with the outside of the sill. This is advantageous, as the bolster will not thus interfere with the front wheels in turning the wagon. To hold the sill between the cross-pieces, clamps are used, which are secured to the stirrup and bolt. The upper clamp comprises a plate 11, which lies upon and extends across the upper edge of the sill. The stirrup extends through an opening 12 in the inner projecting end of the plate. The outer end of the plate is turned down to form a flange 13, which engages over the outside of the sill, and the side edges are also bent down and beveled, as at 14, forming teeth

which bite into the top edge of the sill and prevent any lengthwise slip thereof. The lower clamp consists of a plate 15, which lies between the sill and the bolster. The inner end of this plate has a hole through which the bolt 10 extends, and the outer end is turned up, as at 15^a, forming a flange which engages the lower outer edge of the sill.

The parts are simple and few and are readily assembled when it is desired to set up the rack. The stirrup may be made of ordinary strap-iron. Standard bolts are readily obtainable, and the clamp-plates may be readily and cheaply stamped out of sheet metal or cast, if desired. The flanges of the clamps hold the sill and prevent any sidewise movement thereof, and the bolt and stirrup bind the parts tightly together.

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

1. A hay-rack fixture comprising a loop and bolt, to connect the upper and lower cross-beams, and clamp-plates having openings at one end through which the loop and bolt extend, and flanges at the other to engage the outside of the sill.

2. The combination with upper and lower cross-beams and the longitudinal sill between the same, of plates between the sill and both beams, having flanges against one side of the sill, and a bolt connection between the cross-beams, engaging the plates on the other side of the sill.

3. The combination with upper and lower cross-beams and the longitudinal sill between the same, of a loop through which the upper cross-piece extends, a bolt connecting the loop and the lower cross-piece, on the inner side of the sill, a plate between the sill and the upper cross-piece, having an opening in one end through which the loop extends and a flange at the other end engaging the outside of the sill, and a plate between the sill and the lower cross-piece, having a hole in one end through which the bolt extends and a flange at the other end engaging the outside of the sill.

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

NED H. EMERY.

Witnesses:

CELIA M. CODY,
FLORA A. ADAMS.