

(No Model.)

B. McNALL.
GATE.

No. 599,008.

Patented Feb. 15, 1898.

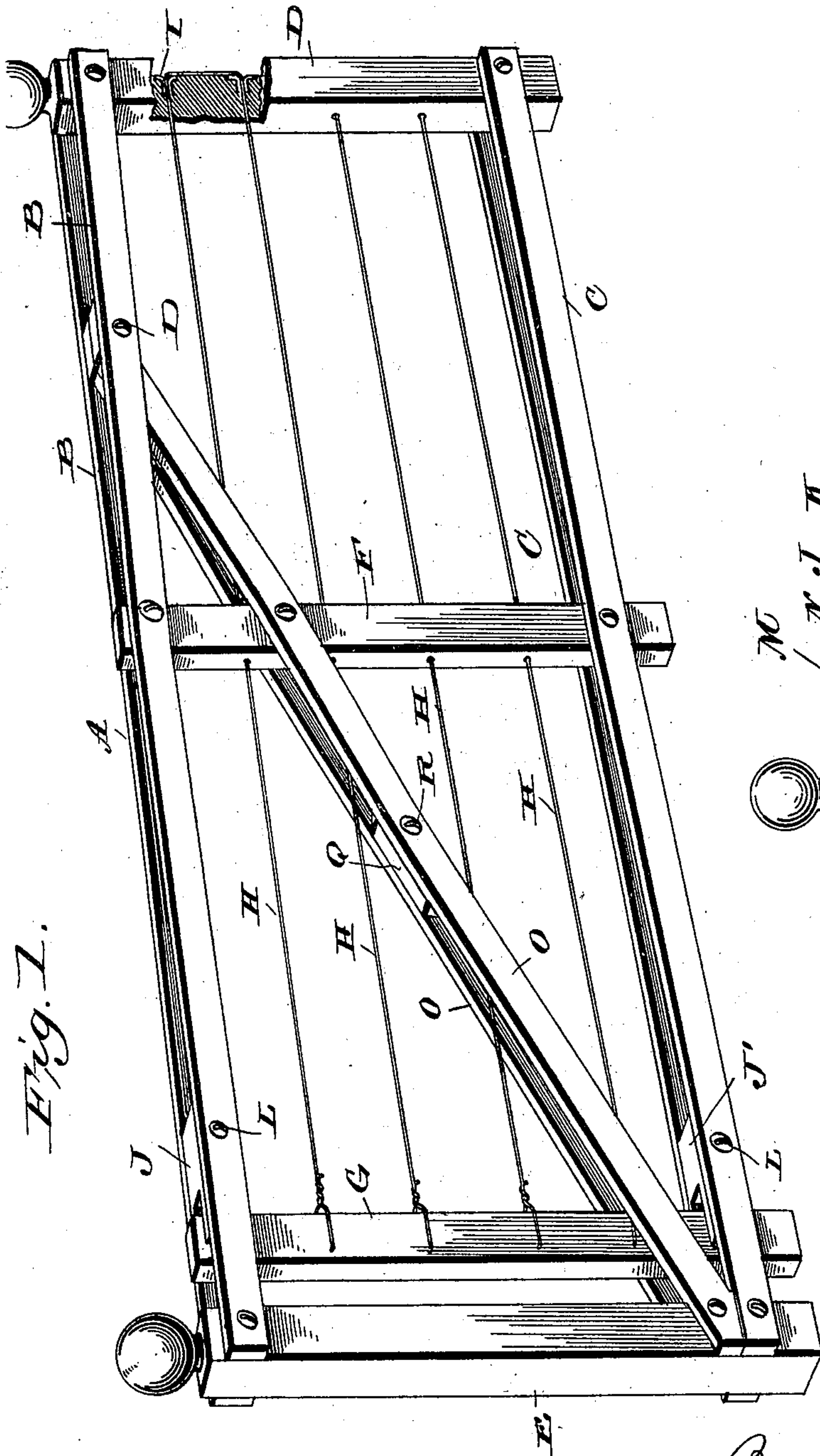


Fig. 1.

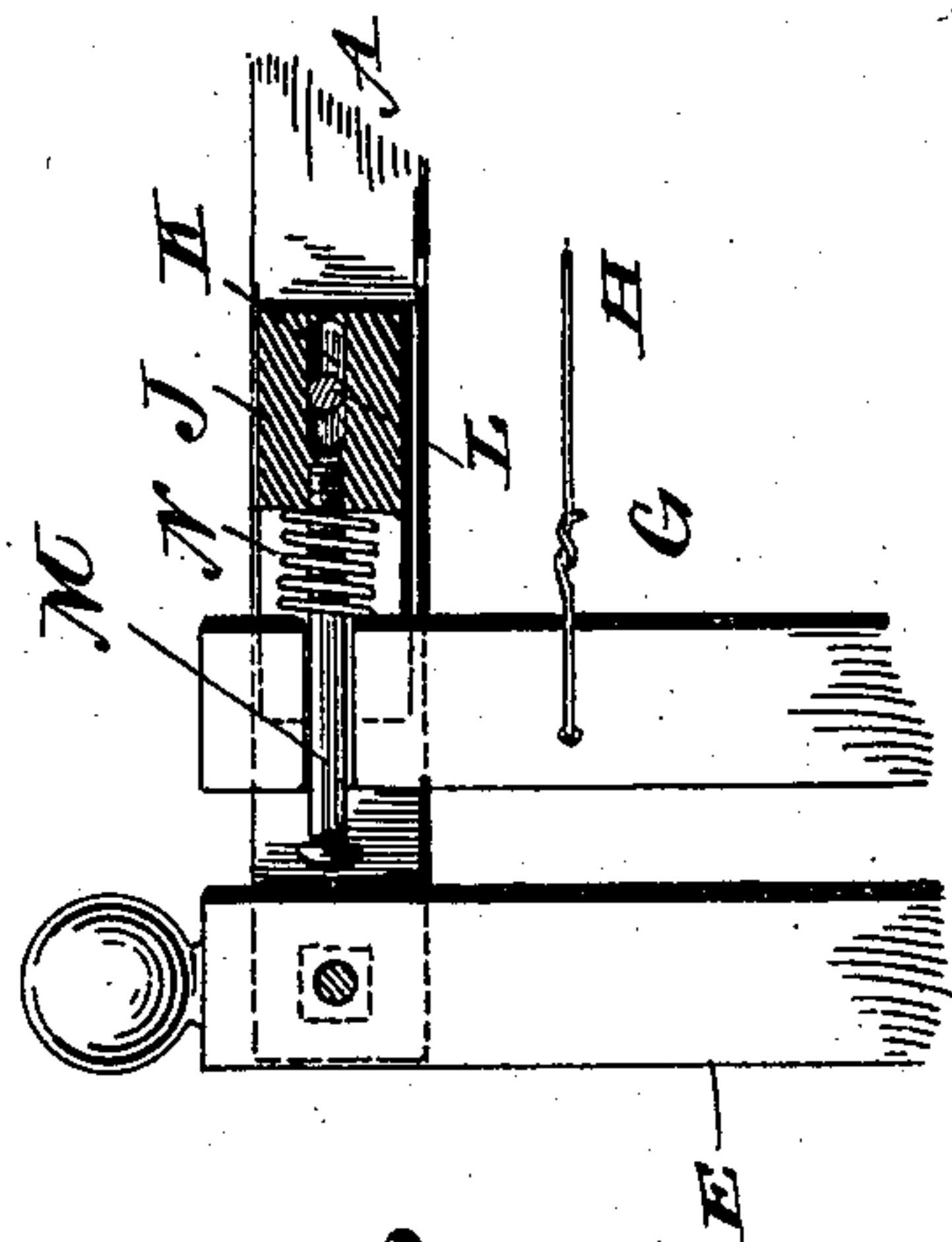


Fig. 2.

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GATE.

SPECIFICATION forming part of Letters Patent No. 599,008, dated February 15, 1898.

Application filed October 12, 1897. Serial No. 654,987. (No model.)

To all whom it may concern:

Be it known that I, BROUGHTON McNALL, a citizen of the United States, residing at Chili, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Gates; 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 of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in gates; and it relates more particularly to that class of gates in which a wooden frame is provided in connection with longitudinal wires.

The invention has for its object to provide a gate of this character with means for adjusting the tension of the wires and for maintaining at all times the rigidity of the frame.

To these ends and to such others as are attainable thereby the invention consists in the peculiar construction of the frame in connection with means employed for adjusting the several longitudinal wires simultaneously, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, like letters indicating the same parts throughout the several views, and in which drawings—

Figure 1 is a perspective view of a gate constructed in accordance with my invention.

Fig. 2 is an enlarged detail, in side elevation, partly in section, of a corner of the gate, showing the wire-adjusting mechanism.

Reference now being had to the details of the drawings by letter, A represents the frame of a gate, which consists of the upper and lower rails B and C, respectively, there being two sets of each, as shown.

D and E represent the end uprights of the gate, to the opposite faces of which the upper and lower horizontal rails B and C are bolted or otherwise rigidly secured.

F is the central upright of the gate, the ends

of which are passed between the upper and lower slats, respectively, and the upright is secured in place by means of suitable bolts passed through the slats and uprights, as shown.

G is a vertical strip which is movable between the upper and lower horizontal slats B and C. This strip G has secured thereto the ends of the fence-wires H, which wires are passed loosely through openings provided in the central upright F and also through openings formed in the end upright D, suitable metallic eyelets I being provided in the said upright to prevent the wire from cutting or wearing the same.

J J' are wooden blocks which are fitted between the upper and lower rails B and C at suitable distances from the end upright E. These blocks J and J' are each provided with longitudinal openings K, through which bolts L are passed, which bolts serve to retain the blocks in place between the fence-slats and at the same time permit of their being moved longitudinally for a distance limited by the length of the slot in the block, as will be readily understood.

M is a bolt which is passed through the upper end of the movable strip G, the end of said bolt being secured to the block J, and N is a spiral spring which is sleeved upon that portion of the bolt M which intervenes between the block J and the movable strip G. It will of course be understood that the block J' and its connections are in all respects similar to the block J.

O O are two rails or wooden strips which are secured at their lower ends to the opposite outer faces of the upright E. These strips are extended diagonally upward from their lower ends, passing upon each side of the central upright F, to which they are bolted, as shown, and the upper ends of said strips or slats are passed between the upper rails B of the gate and are secured in place by means of a bolt.

Q is a block which is placed between the slats O at a point intermediate of the lower ends of the slats and there bolted.

From the foregoing description it will be at once evident that the tension of the wires H may be at once and simultaneously regulated or adjusted. The blocks J and J' are pressed

against the spring N until the required degree of tension is obtained, and then the block is secured rigidly in place by tightening the bolt L. The position and arrangement of the
5 brace-slats O O are such as to permit of the ready tightening of the frame by the tightening of the bolt R.

When the gate is new, the thickness of the block Q which is employed would be but
10 slightly less than the thickness of the upright F, and when it is found necessary to draw the brace-slats together for a greater distance than that permitted by the thickness of the original block Q it is simply necessary to sub-
15 stitute a thinner block or strip for the original one and to again tighten the bolt. This tightening of the bolt, serving, as it does, to draw together the parallel slats O O, will, as is at once evident, serve to increase the ri-
20 gidity of the gate-frame.

Having thus described my invention, what

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

In a gate of the character described, the combination of the gate-frame, the movable
25 upright G, the wires connected therewith, the block J held between the two upper rails of the gate, the bolt L, said block being provided with a longitudinal slot as described, the bolt M passed through an aperture in the
30 upright and having its inner end secured to the block, and a spring N sleeved upon the bolt between the upright and block, substantially as described and for the purpose specified.

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

BROUGHTON McNALL.

Witnesses:

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