

G. G. Thomas
 ~ Chimney Top ~
 And Ventilator

116887

PATENTED JUL 11 1871

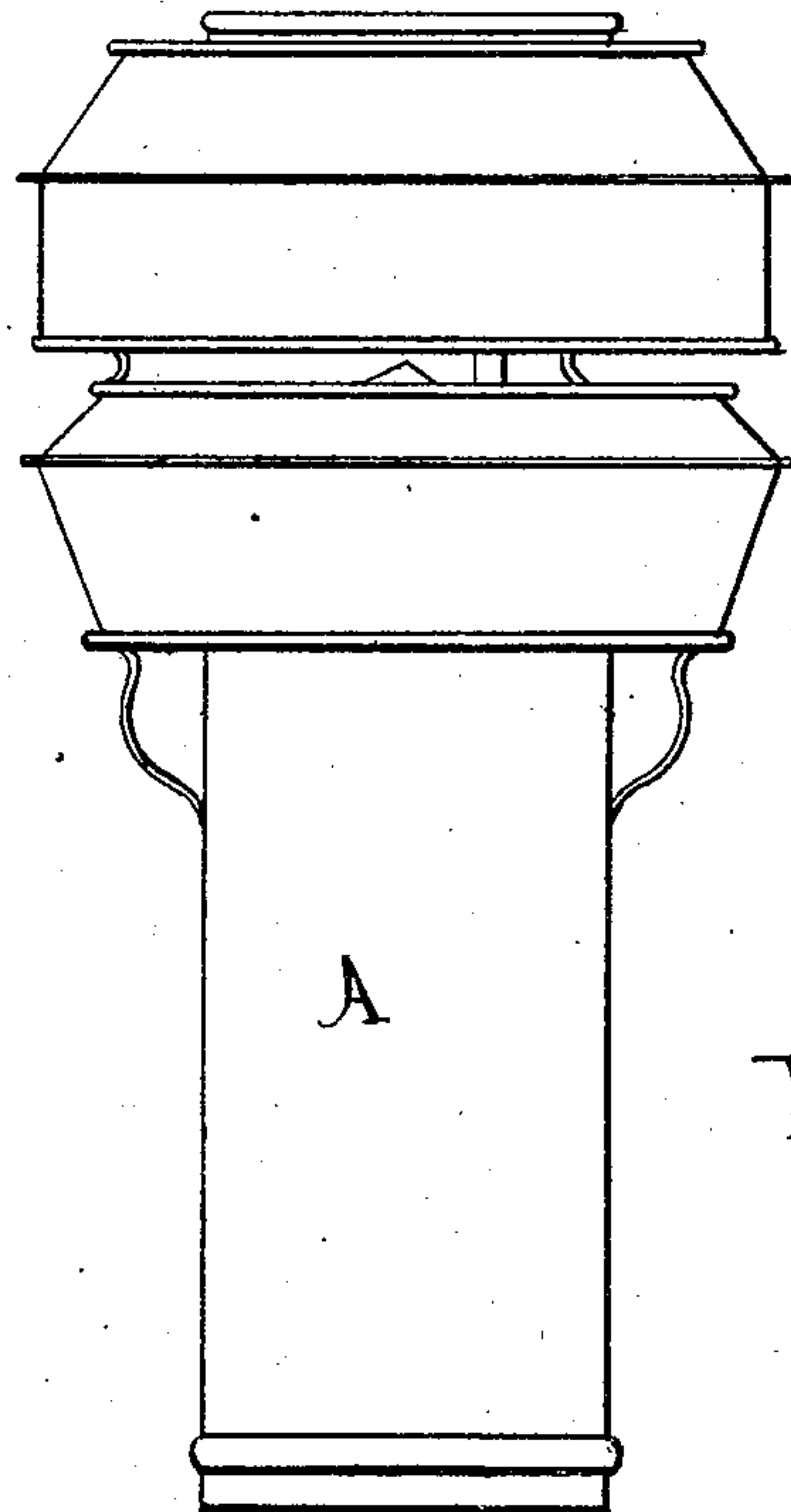


Fig 1

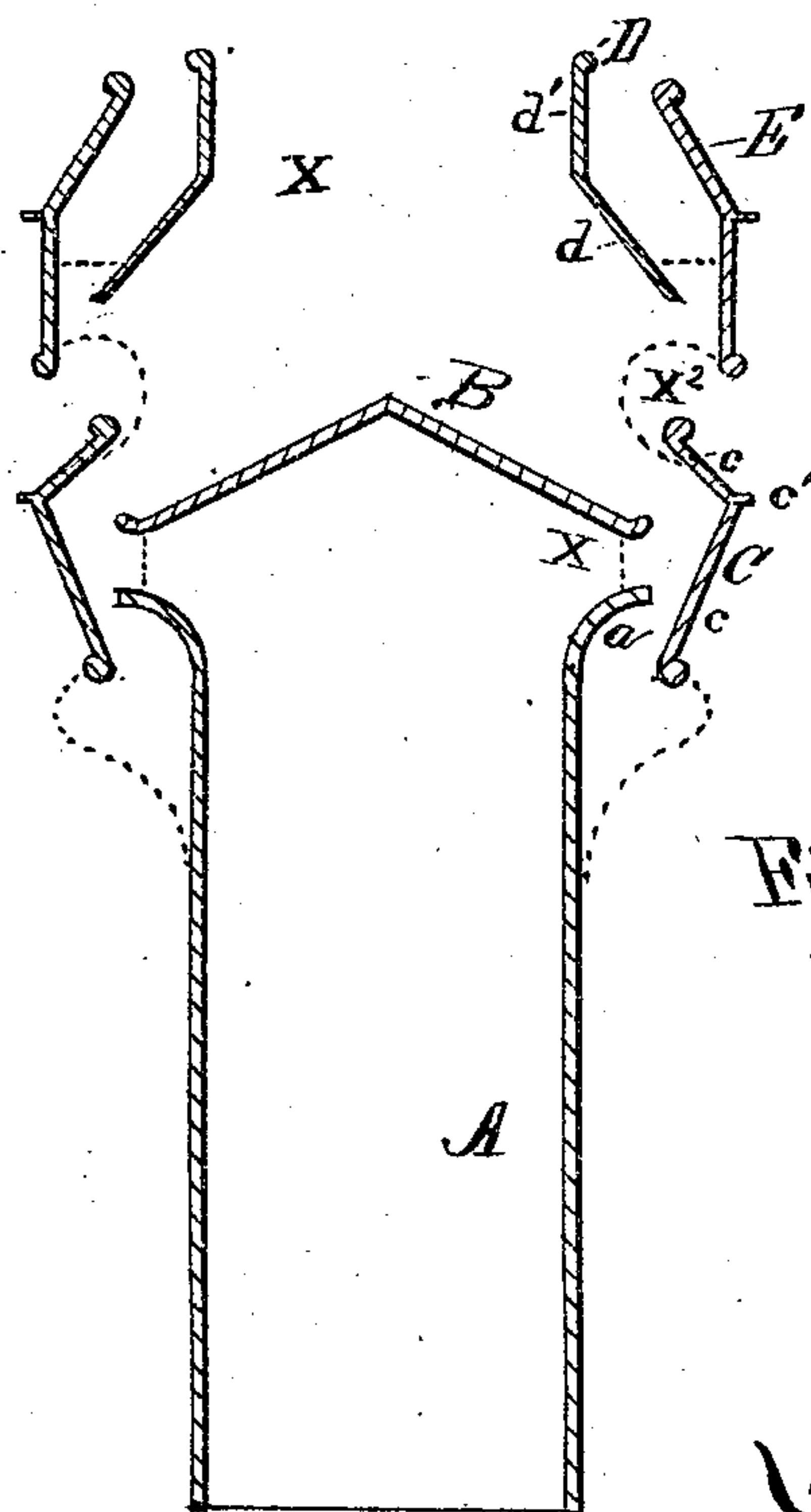


Fig 2

Witnesses

W. E. Raymond
 Emma Greenaway

Inventor

G. G. Thomas by
 H. W. Beadle, atty.

UNITED STATES PATENT OFFICE.

GEORGE G. THOMAS, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN CHIMNEY-COWLS.

Specification forming part of Letters Patent No. 116,887, dated July 11, 1871.

To all whom it may concern:

Be it known that I, GEORGE G. THOMAS, of St. Louis, in the county of St. Louis and State of Missouri, have invented a new and useful Improvement in Ventilator; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention has for its object the production of an improved ventilator; and consists in certain details of construction which will be fully described hereinafter.

In the drawing, Figure 1 represents a side elevation of my improved ventilator or chimney-top; Fig. 2, a central sectional elevation of the same.

To enable those skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents the body of the ventilator, consisting of a tube or cylinder of any proper construction, which is formed at its upper end with an outwardly-curving edge, *a*, as shown. B represents a conical cap set over tube A, and held by any suitable supports, the outer edge of which is in line vertically with the outer edge *a* of the tube A, a sufficient space, however, being left between the tube for the free passage of the air. C represents a protecting-shell, consisting of the parts *c c*, which incline inwardly from the point *c'* in an upward and downward direction, as shown. This shell is so held by suitable supports upon the tube A as to cover and protect the opening *x* between the edges of the tube A and the cap B, and

thus prevent the entrance of the wind therein. D represents an upper cap, provided with an inclined flange, *d*, and vertical flange *d'*, which latter surrounds a central opening, *x'*. This cap is held by suitable supports over the cap B, as is clearly shown in the drawing. E represents an upper shell, substantially similar in its construction to the shell C, the upper edge of which is located in a line horizontal, or nearly so, with the upper edge of the cap D. *x²* represents an opening between the shells E and C.

By means of this construction the ingress of air is effectually prevented, while abundant means are provided for its egress; no matter from what quarter the wind may blow, it cannot enter the tube, but only serves to increase the outward draught. This ventilator may also be used for a chimney-top, if desired.

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

1. The ventilator described, consisting of the tube A with flaring top *a*, caps B and D, shells C and E, combined and arranged as described.

2. The combination of the shells C and E with the cap B, the shells being separated from each other to form an air-passage, and the cap B being arranged to protect the opening of the tube A, as described.

This specification signed and witnessed this 1st day of May, 1871.

GEO. G. THOMAS.

Witnesses:

THOS. B. CALEY,
LE GRAND BETTS.