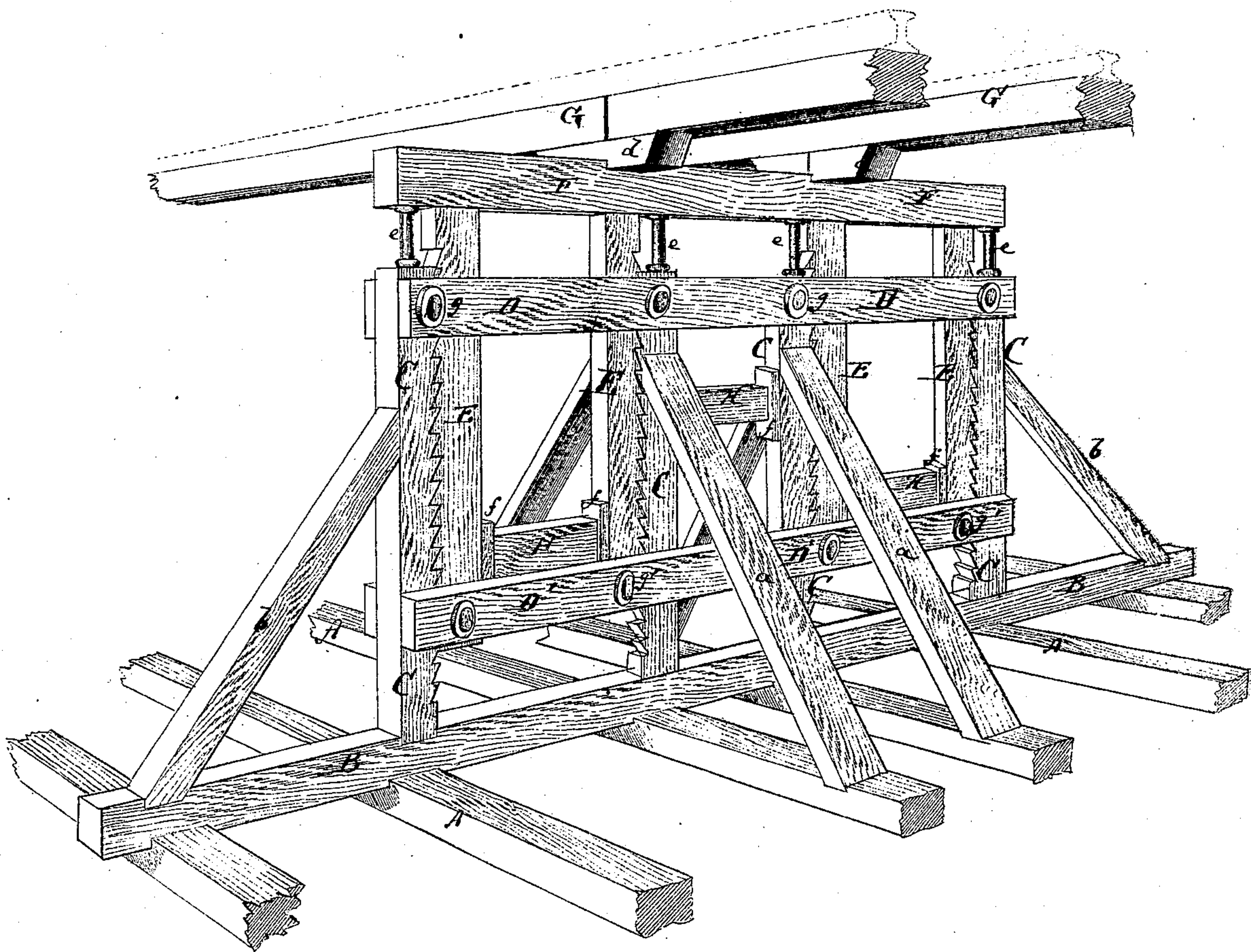


T. B. Gregory,

Truss Bridge.

No. 105,195.

Patented July 12, 1870.



Witnesses:

Gustave Dietrich
E. S. Mabee

Inventor:

T. B. Gregory
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United States Patent Office.

THOMAS BRIGGS GREGORY, OF CHAMPAIGN, ILLINOIS.

Letters Patent No. 105,195, dated July 12, 1870.

IMPROVEMENT IN BRIDGES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern :

Be it known that I, THOMAS BRIGGS GREGORY, of Champaign, in the county of Champaign and State of Illinois, have invented a new and improved Bridge, and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, which represents a perspective view of my improved bridge.

The object of this invention is improvement in bridges, so constructed as to be adjusted vertically; and consists in the construction of extension posts, of which the upper parts are secured to the cap, and the lower to the supporting frame or sill of the bridge.

The contiguous faces of the sections of posts are notched or toothed to lock into each other, and to thereby be supported in any desired position. Bolts, clamps, and stretchers may further be used to secure the cap in the desired height.

A A, in the drawing, are the foundation sills, and B is one of the main sills of a bridge.

C C are the posts framed into the sill B, and stayed by longitudinal braces *a* and lateral braces *b*.

E E are posts framed into the cap F, which supports the track-stringers G by means of corbels *d*.

Jackscrews *c c* are placed between the cap F and the upper ends of the posts C.

The posts E are so applied to the cap that they fit against the posts C, as shown.

The contiguous surfaces of the posts C E are toothed in such manner that the teeth or notches help supporting the cap.

Stretchers H H are interposed between the several posts, to hold the same well together, and keys *f* applied to them, as shown, to make up for shrinkage of the wood.

Clamps D are, by bolts *g*, secured to the upper ends of the posts C, and other clamps, D', by bolts *g'*, to the lower ends of the posts E, to aid in bracing them.

By means of the posts C E the cap can be raised or lowered at will, to adjust the bridge to the level of the road, however that may be changed. For railroad bridges the invention is of inestimable value.

Having thus described my invention,

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

The extension posts C E of a bridge, combined with the stretchers H and clamps D D', as set forth.

THOMAS BRIGGS GREGORY.

Witnesses:

HENRY TREVETT,

HALL T. TAYLOR.