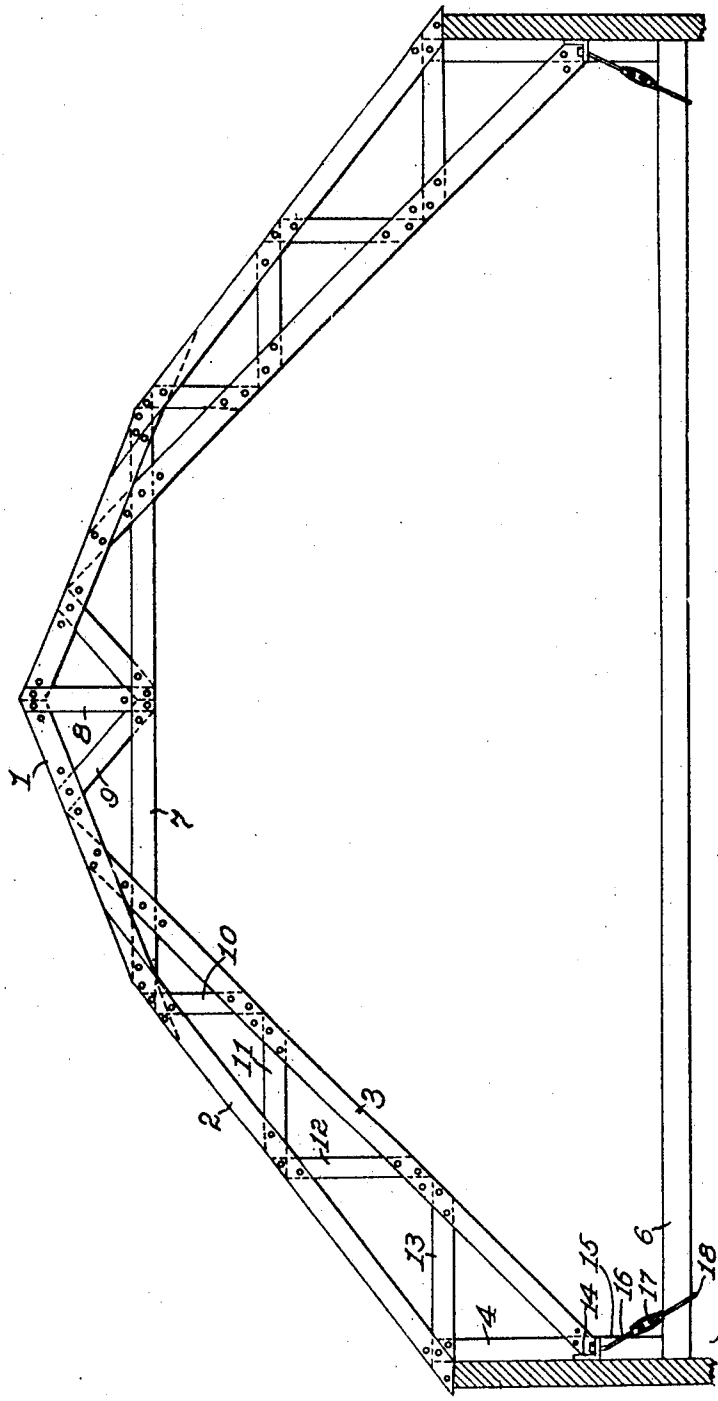
H. O. F. WILKENS.

ROOF TRUSS.

APPLICATION FILED SEPT. 8, 1919.

1,367,510. **Patented Feb. 1, 1921.**



Inventor.
H. O. F. Wilkens.
by G. C. Kennedy.
Attorney.

UNITED STATES PATENT OFFICE.

HANS O. F. WILKENS, OF WATERLOO, IOWA.

ROOF-TRUSS.

1,367,510. Specification of Letters Patent. Patented Feb. 1, 1921.

Application filed September 8, 1919. Serial No. 322,421.

To all whom it may concern:

Be it known that I, HANS O. F. WILKENS, a citizen of the United States of America, and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Roof-Trusses, of which the following is a specification.

My invention relates to improvements in roof trusses, and the object of my improvement is to provide a framed truss of combination form for traversing relatively wide spaces, and to supply the same with suitable adjustable tensioning-means adapted to keep it from spreading or distortion.

I have accomplished this object by the means illustrated in the accompanying drawing, which is an elevation of my improved roof truss with its tensioning means.

I have shown a collar-beam truss of the king-post variety, in said drawing, but any type of collar-beam truss or the like can be used where appropriate or desired, and as shown, the medial collar-beam truss is supported on either hand by strutted members 2 and 3, divergingly inclined in pairs, braced together by the struts or braces 11, 12 and 13.

The medial truss shown has the rafters 1 connected by the collar-beam 7, and medially supported by the king-post 8, in the usual manner. The upper ends of the pairs of side members or rafters 2 and 3 obliquely cross the truss members 1 and 7 and are securely bolted thereon. The struts 11, 12 and 13 are arranged at right angles to each other, fastened by bolts to said members 2 and 3 with their ends approximated, thus supplying a framing on either side braced both horizontally and vertically.

The lower and outer ends of the connected members 2 and the lowermost horizontal strut or brace-connection 13 are supported on top of the walls 5, whence timbers or posts 4 extend downwardly on the inside of the walls to the floor-beam 6.

The lower ends of the members 3 are supported in brackets or saddles 14 on the lower post parts 15.

I have provided adjustable means for creating an inward tension on the ends of the combined truss. This means, in each case, comprises alined rods 16 and 18, of which the rod 16 is headed and passed through the saddle 14, the abutting threaded ends of said rods being adjustably connected by a turn-buckle 17. The rod 18 may be formed into a loop embracing the beam 6, or otherwise secured to it or some other fixed structure. By the use of the turn buckle 17, an inward tension is applied to the lower part of the compound truss to the necessary extent, keeping the truss from spreading or collapsing and in proper alinement with its support. This form of truss is well adapted for structures of large dimensions, such as factory buildings, auditoriums, or other constructions.

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

Roof-supporting means of the character described, comprising the combination with elements connected to form a skeleton truss structure having pairs of connected spaced depending end members, of independent adjustable anchoring-means connected between fixed supporting-means and the lower ends only of each pair of said members consisting of connecting-rod parts connected by turn-buckles to stress said pairs of members both downwardly and inwardly independently of each other, for separated local adjustments.

Signed at Waterloo, Iowa, this 25th day of August, 1919.

HANS O. F. WILKENS.