

June 12, 1928.

1,672,887

C. GROSS

TRUSS

Original Filed Jan. 18, 1927

Fig. 1.

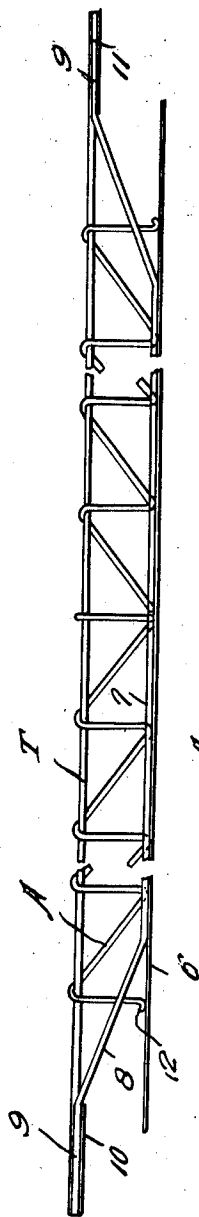


Fig. 3.

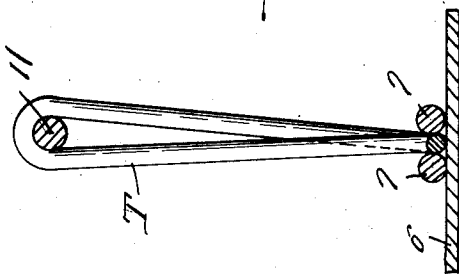
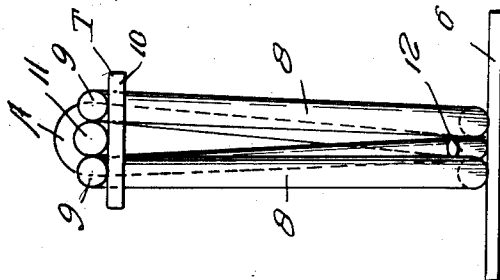


Fig. 2.



Inventor

Carl Gross.

By *Clarence A. O'Brien*
Attorney

UNITED STATES PATENT OFFICE.

CARL GROSS, OF ALLIANCE, OHIO.

TRUSS.

Original application filed January 18, 1927, Serial No. 161,815. Divided and this application filed May 20, 1927. Serial No. 192,968.

The present invention relates to a truss for a fireproof floor construction such as is disclosed in my pending application, Serial No. 161,815, filed January 18, 1927, and the subject matter of this application has been divided from said pending application.

An important object of the invention resides in the provision of a novel concrete reinforcement in the nature of a truss.

Another important object of the invention lies in the provision of a truss which is simple in its construction, strong and durable, inexpensive to manufacture, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a side elevation of a truss reinforcement,

Figure 2 is an end elevation thereof, and

Figure 3 is a transverse section there-through.

Referring to the drawing in detail it will be seen that the letter T denotes my improved truss reinforcement. This truss reinforcement comprises a plate 6 to which is secured the central portions of the two strands of bars 7, the ends of which are inclined upwardly and outwardly, as at 8 and to terminate in horizontally and outwardly extending portions 9. The central portions of these rod strands are welded to the plate 6. End plates 10 are welded to the portions 9. A rod strand 11 is welded to the plates 10, between portions 9 and extends straight between the two plates 10 in spaced parallelism with the central portion of the bar strands 7. A single rod strand A is bent so that its ends 12 are hooked and welded to the plate 6 beyond the extremities of the central portions of the bar strands 7. Beginning at one end of the bar strand A it will be seen that from one point 12 it

risers vertically and extends over and around the bar strand 11 and then inclines downwardly terminating in a bight between the bar strands 7 being there welded to the plate 6 and then extends upwardly and so forth until it terminates at the other end. The plates 10 are adapted to rest on the upper flanges of the I beams and tiles are adapted to rest on the plates 6 when this truss reinforcement is used. This truss reinforcement will reinforce the concrete and because of the peculiar cooperation of the bars of plates forming this reinforcement produces an exceedingly efficient stress distributing truss.

It is thought that the construction, utility and advantages of this truss will now be quite apparent to those skilled in this art. The present embodiment of the invention has been described in detail merely by way of example because in actual practice it attains the features of advantages enumerated as desirable in the statement of the invention and the above description. It will be apparent that changes in the details of construction may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:—

1. A reinforcement truss of the class described comprising an elongated plate, a pair of strands of bar material bent to provide central intermediate straight portions welded to the top surface of the plate in spaced parallelism and merging into upwardly and outwardly inclined portions which in turn merge into outwardly and horizontally disposed end portions, plates welded underneath the end portions, a straight strand of bar material welded to the last mentioned plates between the end portions and a web member fixed to and between said central intermediate straight portions and the straight strand.

2. A reinforcement truss of the class described comprising an elongated plate, a pair of strands of bar material bent to provide central intermediate straight portions

welded to the top surface of the plate in spaced parallelism, and merging into upwardly and outwardly inclined portions which in turn merge into outwardly and horizontally disposed end portions, plates 5 welded underneath the end portions, a straight strand of bar material welded to the last mentioned plates between the end portions, and a strand of bar material interwoven between the first two mentioned 10 strands of bar material and the third mentioned strand.

In testimony whereof I affix my signature.
CARL GROSS.