

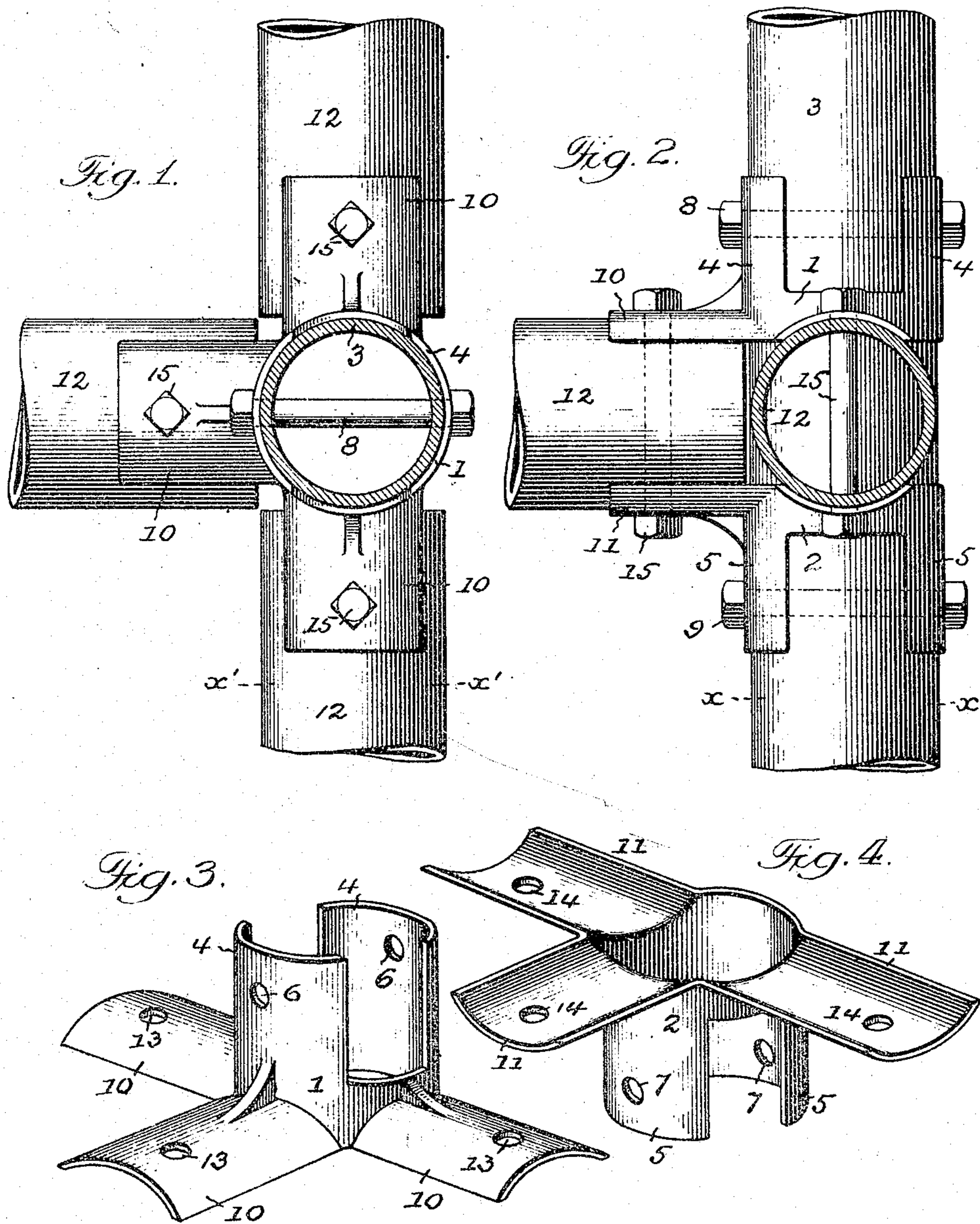
No. 885,240.

PATENTED APR. 21, 1908.

G. M. GRAHAM.

FITTING FOR REINFORCED CONCRETE STRUCTURES.

APPLICATION FILED DEC. 10, 1907.



Witness:
John Enders.
Henry Wood.

Inventor:
George M. Graham.
by Robert Burns
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE M. GRAHAM, OF CHICAGO, ILLINOIS, ASSIGNOR TO G. A. EDWARD KOHLER, OF CHICAGO, ILLINOIS.

FITTING FOR REINFORCED CONCRETE STRUCTURES

No. 885,240.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed December 10, 1907. Serial No. 405,892.

To all whom it may concern:

Be it known that I, GEORGE M. GRAHAM, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fittings for Reinforced Concrete Structures, of which the following is a specification.

This invention relates to fittings used in coupling together the tubular reinforcing skeleton frame for concrete structures, such as forms the subject matter of my prior Letters Patent No. 865,490 of Sept. 10, 1907; and the present improvement has for its object to provide a strong and economical formation and arrangement of the coupling parts, adapted to afford ease and rapidity in the erection of the reinforcing frame aforesaid, and with which a substantial and rigid joining of the frame parts is attained, all as will hereinafter more fully appear.

In the accompanying drawings illustrative of the present invention:—Figure 1 is a horizontal sectional view on line $x-x$ Fig. 2. Fig. 2 is a vertical sectional view on line $x'-x'$ Fig. 1. Figs. 3 and 4 are detached perspective views of the upper and lower members of the fitting or coupling.

Similar numerals of reference indicate like parts in the different views.

Referring to the drawings, 1 and 2 represent the main shells or bodies of the two counterpart members which constitute the present improved fitting. Each of said shells is of a hollow cylindrical shape adapted to fit the periphery of a cylindrical post or column 3 of the skeleton reinforcing frame of a concrete structure, such as forms the subject matter of my prior Letters Patent No. 865,490 of Sept. 10, 1907. In the present improvement, as in my companion application Serial No. 405,891 filed December 10, 1907, each of said shells or bodies 1 and 2, is cut away at one end to form the pairs 4 and 5 of opposed and semi-flexible tongues or jaws which are adapted to be clamped upon the outer surface of the aforesaid post or column 3. To such end the said tongues are provided with diametric orifices 6 and 7 for the passage of the clamping bolts 8 and 9 by which such clamping result is attained. In connection with such construction the post or column 3 will be provided with corresponding orifices for the passage of said bolts.

10 and 11 are series of lateral branches formed at the ends of the shells or bodies 1 and 2, opposite to the clamping tongues 4 and 5 aforesaid; said branches have an angular relation to each other and are segmental in cross section and corresponding with the curvature of and adapted to fit the peripheries of the adjacent ends of the horizontal girders 12 of the reinforcing frame aforesaid.

13 and 14 are bolt holes formed in the lateral branches 10 and 11 aforesaid, for the passage of the clamping bolts 15 by which the said branches are firmly clamped to the exterior surface of said girders, and which girders are provided with holes corresponding to the holes 13 and 14 for the passage of said clamping bolts.

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

1. A fitting for connecting together the tubular members of a reinforcing frame for concrete structures, comprising a pair of counterpart members, each member comprising a tubular shell having at one end a pair of semi-flexible tongues in opposed relation, and laterally disposed branches at the other end of a segmental form, means for drawing said tongues together, and means for drawing said branches together, substantially as set forth.

2. A fitting for connecting together the cylindrical members of a reinforcing frame for concrete structures, comprising a pair of counterpart members, each member comprising a cylindrical shell having at one end a pair of segmental tongues in opposed relation, and laterally disposed branches at the other end of a segmental form, means for drawing said tongues together, and means for drawing said branches together, substantially as set forth.

3. The combination with the vertical column and horizontal girders of a reinforcing frame for concrete structures of a pair of counterpart members, each member comprising a tubular shell having at one end a pair of semi-flexible tongues in opposed relation, and laterally disposed branches at the other end of a segmental form, and bolts passing through said tongues and column and through said branches and girders to secure the parts in position, substantially as set forth.

4. The combination with the cylindrical column and girders of a reinforcing frame for concrete structures, of a pair of counterpart members, each member comprising a cylindrical shell having at one end a pair of semi-flexible tongues in opposed relation, and laterally disposed branches at the other end of a segmental form, and bolts passing through said tongues and column and through said

branches and girders to secure the parts in position, substantially as set forth.

Signed at Chicago, Illinois, this 29th day of November, 1907.

GEORGE M. GRAHAM.

Witnesses:

ROBERT BURNS,
HENRY MOE.