T. JOHNSON.

BOND FOR BEAMS FORMED OF PLASTIC MATERIAL.

APPLICATION FILED MAR. 23, 1912.

1,039,951.

Patented Oct. 1, 1912.

Fig. 3.

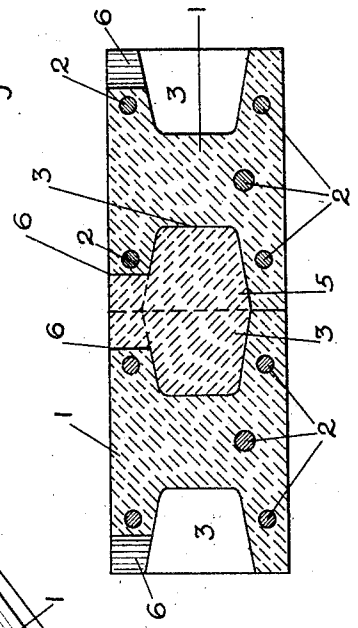


Fig. 1.

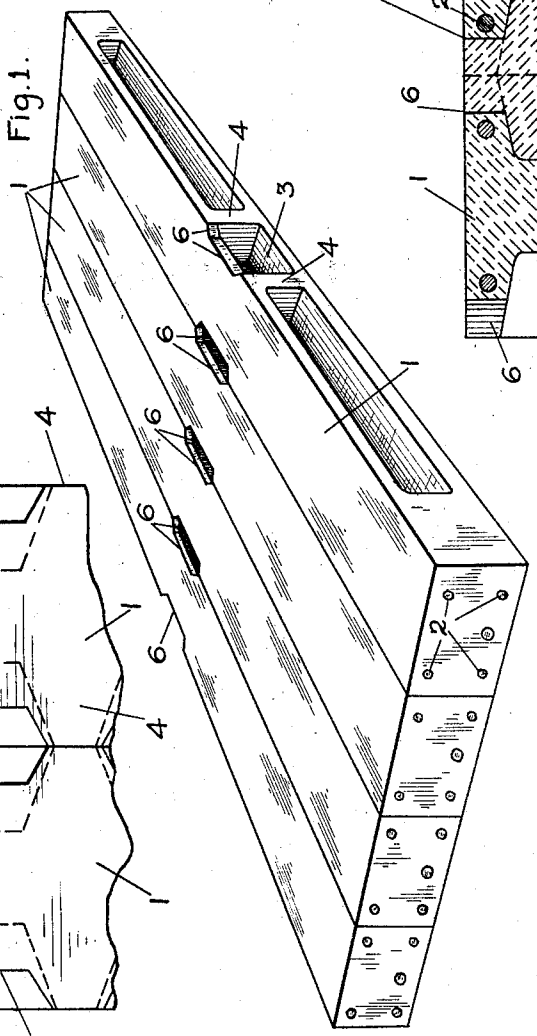
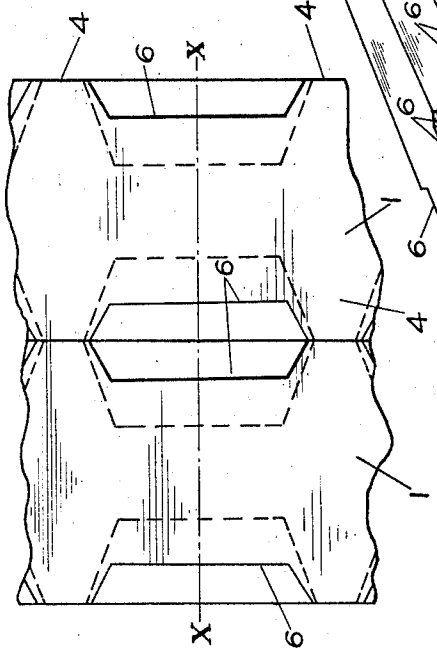


Fig. 2.



Witnesses.

R. W. Stone.

A. A. Olson.

Inventor.

Theodore Johnson.

By Joshua R. H. Potts

his Attorney

UNITED STATES PATENT OFFICE.

THEODORE JOHNSON, OF CHICAGO, ILLINOIS.

BOND FOR BEAMS FORMED OF PLASTIC MATERIAL.

1,039,951. Specification of Letters Patent. Patented Oct. 1, 1912.

Application filed March 23, 1912. Serial No. 685,799.

To all whom it may concern:

Be it known that I, THEODORE JOHNSON, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Bonds for Beams Formed of Plastic Material, of which the following is a specification.

My invention relates to concrete construction, and more specifically to improvements in bonds for uniting adjacent beams of concrete or other plastic material.

The object of my invention is the production of a beam of concrete or other plastic material which will be so constructed that, when a plurality of beams are arranged side by side, compartments will be formed extending between adjacent beams for the reception of bonds for securely uniting said beams.

Other objects will appear hereinafter.

With these objects in view, my invention consists in the combinations and arrangements of parts hereinafter described and claimed.

My invention will be more readily understood by reference to the accompanying drawing forming a part of this specification, and in which—

Figure 1 is a perspective view of a plurality of beams arranged side by side or in position for use, said beams being of a construction embodying my invention, Fig. 2 is an enlarged fragmentary top plan view of the central portion of two adjacent beams or of the portion in which the bond is formed, and Fig. 3 is a transverse section taken on line x x of Fig. 2.

The preferred form of construction, as illustrated in the drawing, comprises a beam 1 which is formed of concrete or other suitable plastic material. The beam 1 is of I construction and the same is reinforced at 2 in the conventional manner. The beam 1 is formed in its opposite sides medially of the extremities thereof with laterally opening pockets 3 which taper inwardly, said pockets being formed by the formation of transversely extending flanges 4 in the beam, as will be readily understood. With this provision it will be seen that, when two beams are placed side by side, as shown in Fig. 1, the pockets 3 will register with each other so as to form a compartment or chamber for the reception of a bond. The bond, which is shown at 5, is formed of plastic material, this material being introduced to the chamber formed by the pockets 3 through an opening, which is formed between the contiguous surfaces or edges of the adjacent beams, by providing recesses 6 in the outer edges of the upper walls of the pockets 3, the recesses 6 registering with each other when the beams are properly arranged side by side, as clearly shown in the several views.

With the construction set forth, it will be seen that adjacent beams will be securely locked together, and so that the structure or floor formed thereby will possess practically the same strength and durability as though the same were formed of a single piece of plastic material. The construction is such that the formation of bonds therein may be effected with great ease and expedition, and the beams may be molded without any more labor than is required in the formation of a beam of similar construction but without pockets formed in the lateral edges thereof for the reception of the bonds as in this case.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the exact details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A plurality of beams, each beam having a pocket in each side thereof, the pockets of all of said beams being in alinement; and a plastic bond inserted in each of said pockets.

2. A plurality of beams, each beam hav-

ing a pocket in each side thereof, the pockets of all of said beams being in alinement, and the pockets of the adjacent surfaces of said beams registering and opening into each other; and a plastic bond inserted in each of said registering pockets of each pair of beams.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THEODORE JOHNSON.

Witnesses:

DAVID N. SWEDLUND,

AXEL JOHNSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."