Fig. 1

Fig. 2

Fig. 3

Fig. 4  Fig. 5  Fig. 6  Fig. 7

Witnesses,

Inventor
Rudolf Grimm

By James L. Young
To all whom it may concern:

Be it known that I, RUDOLF GRIMM, a subject of the Emperor of Austria-Hungary, residing at Vienna, Austria-Hungary, have invented certain new and useful Improvements in Sectional Girders and Columns Formed of Concrete Strengthened with Iron, of which the following is a specification.

This invention relates to sectional girders and columns formed of concrete strengthened with iron members, the sections of which can be readily put together and can be easily taken to pieces, and which sections may be manufactured in bulk and only put together at the place where they are used, the uniting it to girders or columns being effected by simply connecting up the iron inlays. Such sectional parts are characterized by the fact that the concrete body at those places where the ends of the iron inlays are situated are formed with recesses during the molding process, so that the ends of these iron inlays are thus exposed and can be connected together by nuts screwed onto them or in any other suitable manner adapted to bring the girders or the column-sections into close contact.

30 Figures 1 and 2 of the accompanying illustrative drawings show in side view and end view, respectively, one construction of girder according to this invention. Fig. 3 shows the parts thereof disconnected: one from the other. Figs. 4 and 5 show in elevation and section, respectively, a column according to this invention; and Figs. 6 and 7 show in perspective a portion or section of such a girder and a portion or section of such a column, respectively.

Each of the girder portions or sections a and the column portions or sections a' are formed of concrete strengthened by iron inlays b and are provided on their abutting faces with recesses in the concrete body corresponding in number to the iron inlays b and into which recesses the screw-threaded ends of the iron inlays project. These recesses may be produced during the shaping of the girder or column portions, for which purpose after inserting and fixing within the bounding mold into which the moist concrete is delivered the iron-bars b and temporarily connecting them together by sockets hori-
of sections, metallic inlays arranged in each of the sections and having screw-threaded ends projecting from the section, and right and left hand threaded nuts mounted upon the 5 screw-threaded ends of the inlays for connecting the sections together.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

RUDOLF GRIMM.

Witnesses:

JOSEP RUBASCH,

ALVESTO S. HOGUE.