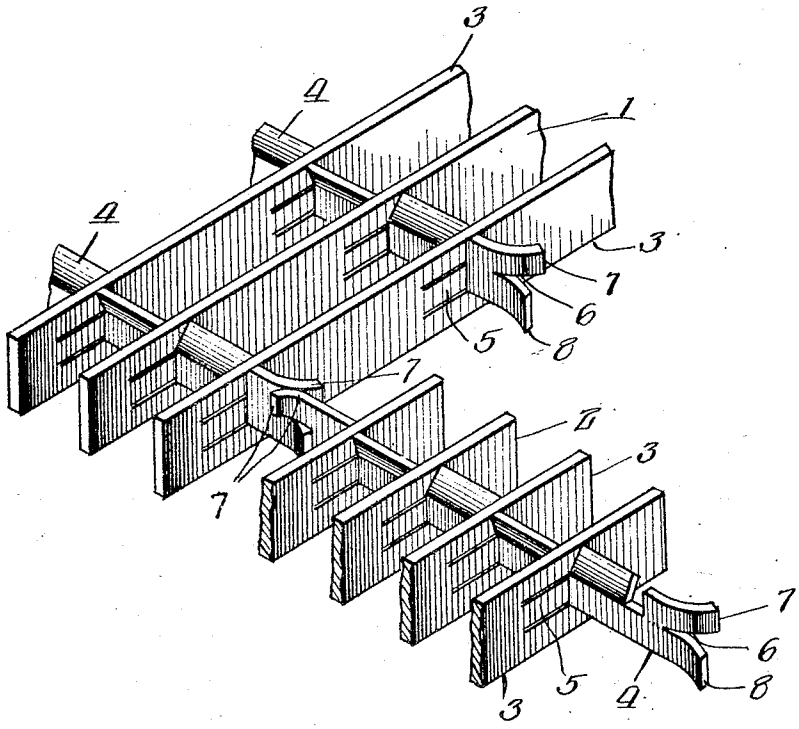
June 24, 1930. C. C. SHELDEN 1,768,157

GRATING

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UNITED STATES PATENT OFFICE

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GRATING

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My invention relates to gratings and more especially to connections for sectional floor gratings and the like.

It is an object of my invention to provide a simple and effective type of floor grating connection.

Another object of my invention is to provide a grating connection which will assist in supporting the adjacent grating.

A further object is to provide a grating connection in which any deflection of one grating section will be transmitted to the adjacent section.

A further object is to provide a grating connection which will prevent the shifting of the sections with respect to each other.

Other objects and advantages will present themselves and become apparent from the following specification, in which reference is made to the accompanying drawing, wherein

The figure is a perspective view of a grating connection embodying my invention.

Referring more particularly to the drawing, I show a floor grating generally having sections 1 and 2, respectively, the sections comprising longitudinal members 3 spaced from each other by cross members 4, which, in the embodiment shown herein, appear as passing through members 3 and appropriately secured in place in apertures therein by tongues 5 or other suitable securing means. The main support for the gratings may be by any satisfactory means but is usually at the ends of the longitudinal members 3. Cross members 4 occur at intervals along the longitudinal members and have their extending ends split as at 6, the two portions 7 and 8 being bent or curved outwardly horizontally in opposite directions, that is to say, the upper bent portions 7 of each member 4 being bent on opposite sides of an axis passing horizontally through the cross members when looking downwardly at the same. This arrangement is such that when the adjacent sections are placed together the upper bent portions 7 will overlap each other and portion 7 of each member 4 will be above the portion 8 of the adjacent section member. This results in a connection in which any tendency to depress or lift one section will be transmitted to the adjacent section and, by the overlapping of the members 7 and 8, supporting action of each cross member with the adjacent member will result.

The curved portions formed by the members 7 and 8 afford abutments which maintain the grating sections in spaced relation to each other and horizontal movement of one section will be resisted by the next one in any direction except direct separation. This grating connection is interlocking and reversible, being such that any grating section can be reversed end for end and still interlock with all the adjacent sections.

It is thus seen that I have provided a very useful and effective grating section connection and one which is simple to construct and efficient in operation.

The embodiment shown and described herein is illustrative only and I do not wish to limit my invention to the exact form as changes and modifications may be made without departing from the spirit and scope of the invention.

1 claim:

1. A connection for floor grating sections and the like having longitudinal members and cross members, comprising cross members having their end portions deflected from the normal plane of said cross members whereby to effect supporting engagement with an adjacent grating section.

2. A connection for floor gratings and the like having longitudinal and transverse members, comprising cross members having their end portions deflected oppositely with respect to the normal plane of said cross members whereby to provide means for supporting and spacing the adjacent sections.

3. A connection for floor gratings and the like having longitudinal and transverse members, comprising cross members having their end portions terminating in a plurality of divergently deflected tongue portions adapted to co-operate with corresponding end portions of cross members of the adjacent sections.

4. A connection for floor gratings and the

like having longitudinal and transverse members, comprising cross members having their end portions split forming a plurality of tongues bent alternately outwardly from the normal plane of said cross members adapted to afford interlocking and supporting connections with the corresponding members of the adjacent sections.

5. A connection for floor gratings and the like having longitudinal and transverse members, comprising cross members having their ends split forming a plurality of tongues bent alternately outwardly and horizontally whereby to provide a connection adapted to support and brace corresponding members of the adjacent sections.

6. A connection for floor gratings and the like having longitudinal and transverse members, comprising cross members consisting of substantially flat bars disposed at right angles to the plane of the said longitudinal members and having their ends terminating in a plurality of separated curved portions extending alternately outwardly for forming a part of a co-operating two-part connection adapted for supporting and spacing the adjacent sections.

Signed at Gary, Indiana, this second day of August, 1929.

CHAS. C. SHELDEN.