

No. 782,495.

PATENTED FEB. 14, 1905.

W. F. EICHFELD.
METAL COLUMN.

APPLICATION FILED JUNE 28, 1904.

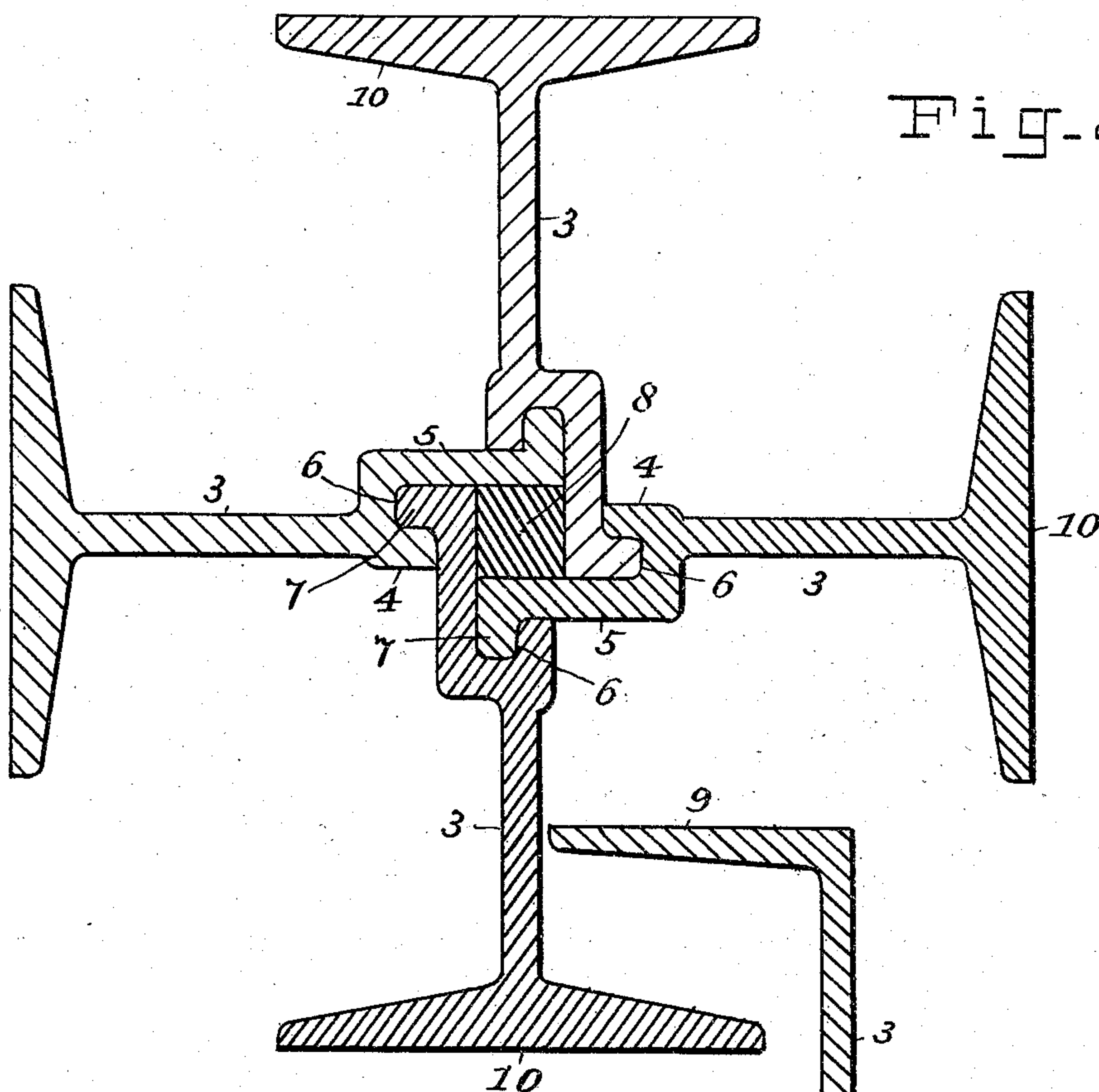
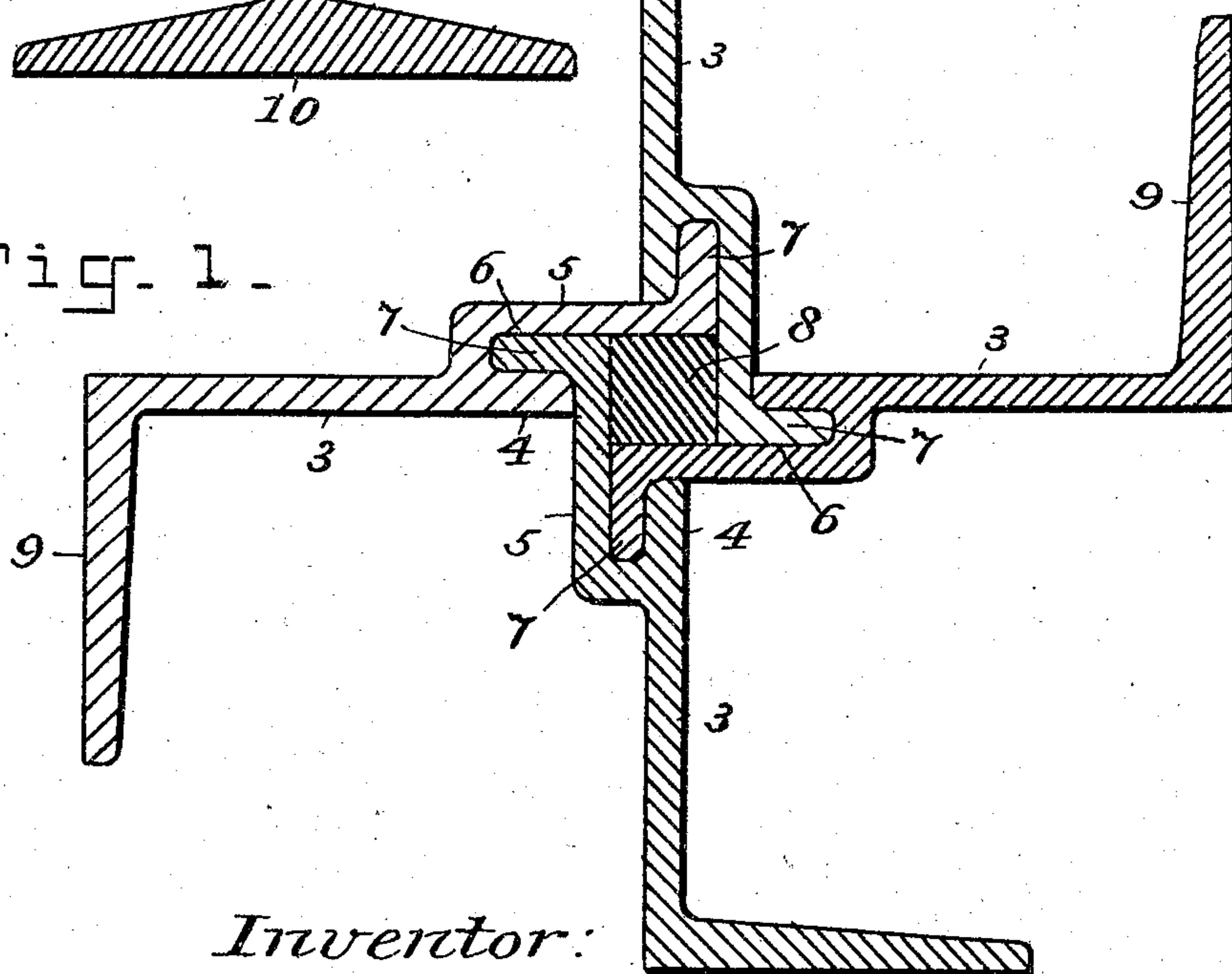


Fig. 2.

Fig. 1.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM F. EICHFELD, OF MILWAUKEE, WISCONSIN.

METAL COLUMN.

SPECIFICATION forming part of Letters Patent No. 782,495, dated February 14, 1905:

Application filed June 28, 1904. Serial No. 214,539.

To all whom it may concern:

Be it known that I, WILLIAM F. EICHFELD, a citizen of the United States, residing at Milwaukee, Wisconsin, have invented new and useful Improvements in Iron and Steel Columns, of which the following is a specification.

My invention relates to iron or steel columns built up of special shapes of angle-bars; and the object of the invention is to provide a column in which the parts shall be held together without the necessity of bolts or rivets.

I have illustrated the invention in the accompanying drawings, in which—

Figure 1 is a sectional view of one form, and Fig. 2 a section of a modification.

According to my invention I provide a plurality of angle-bars 3, each of which has two parallel portions 4 and 5, providing between them a recess 6. The portion 5 is extended beyond the portion 4 and has an angular-turned flange 7, which is adapted to engage the corresponding recess 6 of the next adjoining angle-bar. The angle-bars when assembled occupy the relative positions shown in the drawings and are securely held together by a central key 8, driven longitudinally down the center of the column. This key may be a steel bar with a driving fit or a bar of soft Norway iron placed in position and then swaged or upset.

It will of course be understood that in assembling the angle-bars to form the column three of them are placed in position and then the fourth is slid longitudinally into place be-

fore the key is inserted. It will also be understood that I do not limit myself to the particular shapes of angle-bars shown, as any shape may be used as desired or necessitated by the requirements of the work. In Fig. 1 I have shown the outer ends 9 of the bars as L-shaped, while in Fig. 2 the outer ends are shown T-shaped, as at 10; but these two forms are merely representative of any particular shapes which may be desired.

Having thus described my invention, what I claim is—

1. A column comprising a plurality of angle-bars each having a bifurcated web portion providing a short flange, and a long flange with an angularly-turned edge, said angular-turned edge of each bar engaging the channel in the bifurcated portion of the next adjoining bar, substantially as described.

2. A column comprising a plurality of angle-bars each having a bifurcated web portion providing a short flange and a long flange, with an angularly-turned edge, said angular-turned edge of each bar engaging the channel in the bifurcated portion of the next adjoining bar, and a filling or key piece in the space inclosed by said bars, substantially as described.

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

WILLIAM F. EICHFELD.

Witnesses:

A. A. DREIS,

A. F. WAGNER.