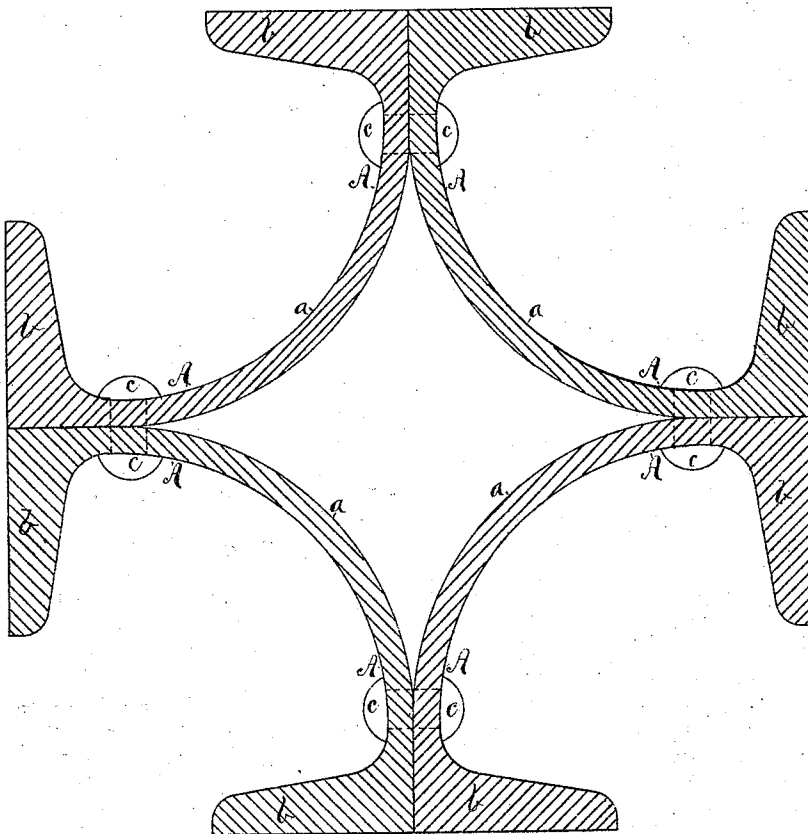


C. H. KELLOGG.
Wrought Iron Columns.

No. 153,170.

Patented July 21, 1874.

Fig. I.



Witnesses:
D. H. Parsons.
J. R. Drake.

Charles Henry Kellogg
Inventor. By
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Attys.

UNITED STATES PATENT OFFICE.

CHARLES H. KELLOGG, OF BUFFALO, NEW YORK.

IMPROVEMENT IN WROUGHT-IRON COLUMNS.

Specification forming part of Letters Patent No. **153,170**, dated July 21, 1874; application filed June 19, 1874.

To all whom it may concern:

Be it known that I, CHARLES HENRY KELLOGG, of Buffalo, in the county of Erie and State of New York, have invented certain Improvements in Wrought-Iron Columns, of which the following is a specification:

The invention relates to a wrought-iron column for viaducts, piers, bridge-building, &c.; and the invention consists in its construction, as hereinafter fully explained.

The drawing represents a plan of a transverse section of my column.

A A A A represent a series of channel-bars or upright sections composing the wrought-iron column. These columns, however, may be composed of three, four, or more channel-bars, as may be desired, the drawing showing one constructed in four sections. The web *a* of each of these channel-bars is curved inwardly, substantially as shown, and their sides have formed on them the usual flange *b*. These channel-bars, when joined by riveting the webs together, as shown at *c c*, form a column hollow in the center, and with complete broad flanges, substantially as shown.

The advantages of this peculiarly-constructed column are, that it combines the greatest amount of strength in a comparatively small

space, which also allows a simpler and cheaper construction than most columns for similar purposes with which I am acquainted. Furthermore, it is especially adapted for viaducts, as the broad-faced flanges *b b* give a square face for fastening thereto "laterals" and "struts," thereby doing away with cast-iron joint-blocks. This is an important advantage.

I am acquainted with patented columns constructed of outwardly-curved sections, and also with square uprights or sides, their flanges joined together, but none formed like mine, and the webs riveted as shown.

I claim—

A wrought-iron column composed of three or more channel-bars, A A, curved inwardly, and their webs *a a* riveted together at *c*, each side of each channel-bar having a flange, which, when united, forms a complete flange, *b*, as and for the purposes hereinafter specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

CHARLES H. KELLOGG.

Witnesses:

J. R. DRAKE,
T. H. PARSONS.