C. H. LEIDY.

Metallic Column.

No. 167,179. Patented Aug. 31, 1875.

Fig. 1.

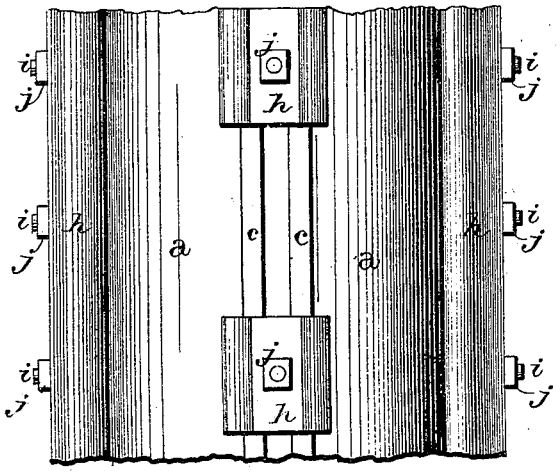


Fig. 2.

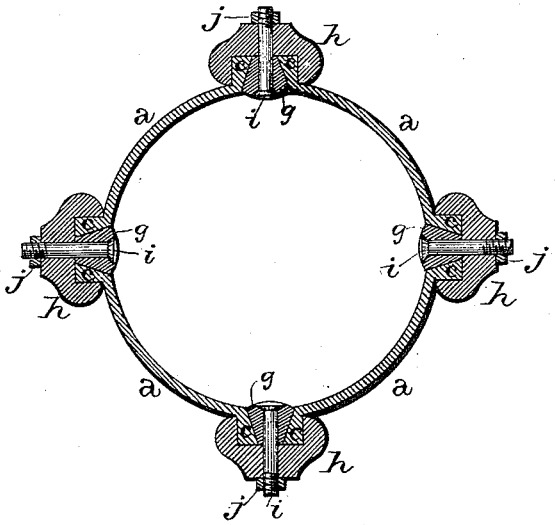
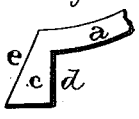


Fig. 3.



WITNESSES.

Wm. Garner

Jno. Irwin Jr.

INVENTOR.

Chas. H. Leidy

per

F. A. Lehmann, Atty.

UNITED STATES PATENT OFFICE.

CHARLES H. LEIDY, OF PHŒNIXVILLE, PENNSYLVANIA.

IMPROVEMENT IN METALLIC COLUMNS.

Specification forming part of Letters Patent No. **167,179**, dated August 31, 1875; application filed August 12, 1875.

To all whom it may concern:

Be it known that I, CHARLES H. LEIDY, of Phœnixville, in the county of Chester and State of Pennsylvania, have invented certain new and useful Improvements in Metallic Columns; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in iron columns or posts; and it consists in the arrangement and combination of parts, that will be more fully described hereinafter, whereby the construction of the column is simplified, and the putting together of the parts made more easy.

The accompanying drawings represent my invention.

a represents the sides of the column, made preferably in four or more parts, and having a flange, *c*, upon their outer edges. These flanges are thicker at their outer ends than at their bases, and have their inner sides *d* made straight, while their outer ones, *e*, are beveled away, as shown. When two of the sides are brought together to form a column the wedge-shaped blocks *g* are placed in between the two beveled sides of the flanges, so as to hold them a suitable distance apart, and then the headed screw-bolts *i* are passed outward through them between the edges of the flanges, and through the clamps *h*, which fit over and entirely cover the flanges from the outside. By screwing up the nuts *j* the wedges *g* are drawn in between the edges of the plates or sides *a*, so as to force them apart, and thus cause the clamps *h* to grasp the sides of the flanges, and hold them with great power.

In order to save material the wedges *g* will be made as short as possible, while the clamps may either be made the full length of the column, or in short sections, like the wedges.

By properly clamping over the main body of the column one of the sides or segments may be removed when in position in a bridge or building, so that the interior of the column may be painted as often as is necessary.

Having thus described my invention, I claim—

1. In a metallic column, the wedge-shaped blocks *g*, substantially as shown.

2. The combination of the sections *a*, having the beveled flanges *c*, blocks *g*, clamps *h*, bolts *i*, and nuts *j*, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of August, 1875.

CHARLES H. LEIDY.

Witnesses:
J. C. SNYDER,
A. A. ZIMMERMAN.