J. B. CORNELL.

Wrought-Iron Column.

No. 160,574. Patented March 9, 1875.

Fig. 1.

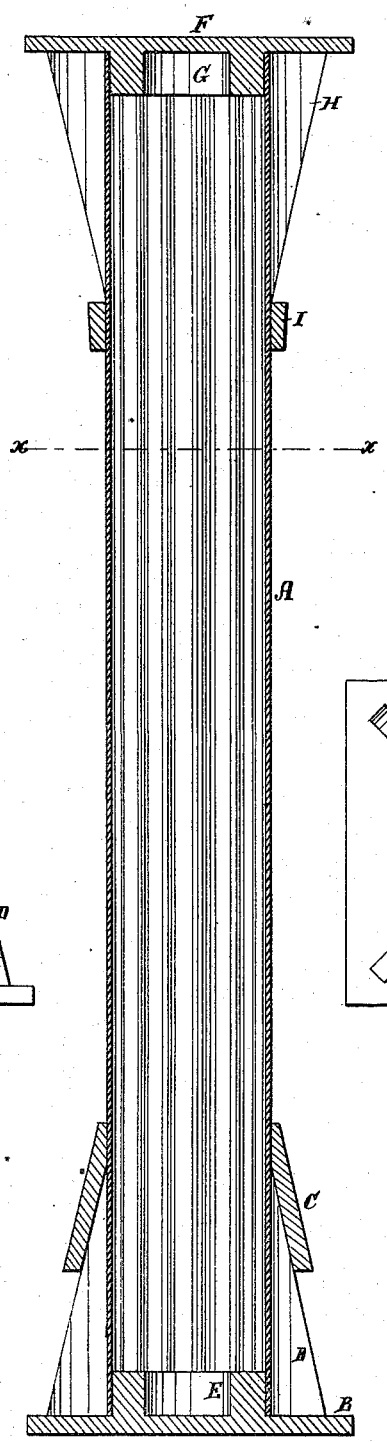


Fig. 2.

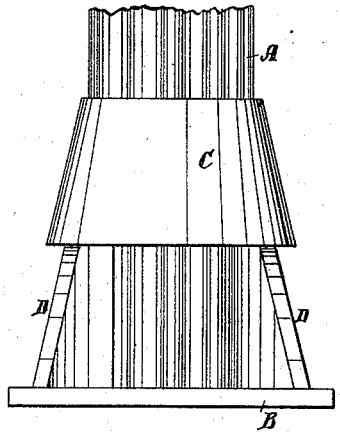
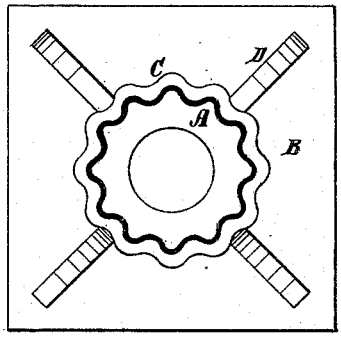


Fig. 3.



WITNESSES:

A Bennenendorf
Alex F. Roberts

INVENTOR:

BY J. B. Cornell
Munn & Co
ATTORNEYS.

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

JOHN B. CORNELL, OF NEW YORK, N. Y.

IMPROVEMENT IN WROUGHT-IRON COLUMNS.

Specification forming part of Letters Patent No. **160,574**, dated March 9, 1875; application filed May 1, 1874.

To all whom it may concern:

Be it known that I, JOHN B. CORNELL, of New York city, in the county and State of New York, have invented a new and Improved Wrought-Iron Corrugated Column, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

Figure 1 is a sectional elevation of a column base-plate and cap contrived according to my invention. Fig. 2 is a side elevation of the base-plate and fender, and a portion of the column. Fig. 3 is a horizontal section of the column taken on the line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents a cylindrical corrugated hollow column, made of a plate of metal corrugated in its longitudinal direction, bent transversely into circular form, and welded at the edges, thus making a round fluted column of one piece without a joint or seam; but it may be riveted at the edges, the same being overlapped or battened, and thus have one joint, but without projecting flanges in both cases.

The iron plate of which the column is made will be constructed in breadth and thickness with due regard to the requisite strength and size for the weight it is to sustain, and will vary in these respects according to circumstances; but it is designed that as a supporting-column for railroads and other structures it will be complete in itself, and not depend upon or serve as an adjunct to any auxiliary support, as, for instance, an interior column, having this for a case to inclose it.

B represents the foundation-plate, to which I propose to connect the fender C, so as to utilize it for a substantial support to the column against lateral inclination by casting it together with the plate, and also connecting-standards D. The foundation-plate will also have a central stud, E, to enter the lower end of the column for holding it in place. F is the cap for the top of the column. It also has a center stud, G, for entering the column; also, brackets H, and a ring, I, for connecting the brackets, all for keeping the cap in position on the column.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The fender C, for a supporting-column connected to the foundation-plate, to form a lateral support to the column, substantially as specified.

JOHN B. CORNELL.

Witnesses:

A. A. JAYNE,

H. W. REDFIELD.