

DESIGN.

J. F. STARR, Jr.
Sheet-Metal Water-Pipe.

No. 10,632. FIG. Patented April 16, 1878.

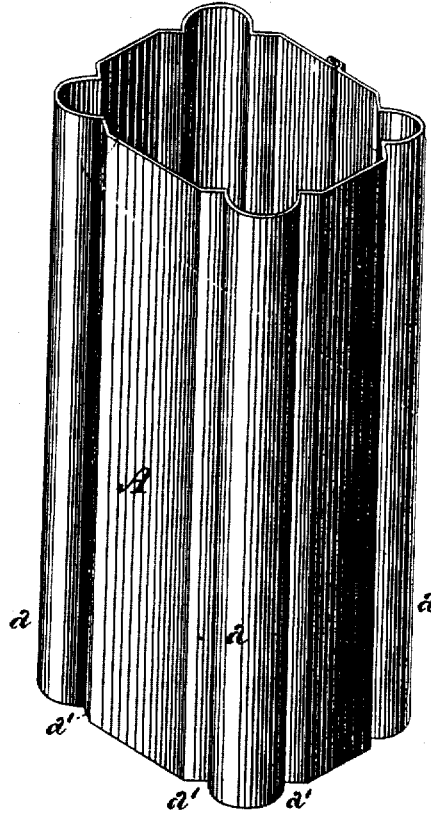
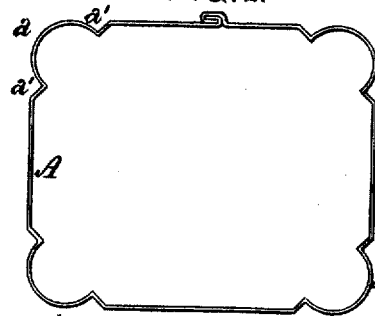


FIG. 2.



WITNESSES:

Geo. A. Vaillant.
Cha. W. Chesney

INVENTOR

John F. Starr, Jr.
By J. Thomson Bell,
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UNITED STATES PATENT OFFICE.

JOHN F. STARR, JR., OF CAMDEN, NEW JERSEY.

DESIGN FOR SHEET-METAL WATER-PIPE.

Specification forming part of Design No. **10,632**, dated April 16, 1878; application filed February 28, 1878.
[Term of patent 14 years.]

To all whom it may concern:

Be it known that I, JOHN F. STARR, JR., of the city and county of Camden, in the State of New Jersey, have originated and designed a Sheet-Metal Water-Pipe, of which the following is a description, reference being had to the accompanying drawing, in which—

Figure 1 is a view, in perspective, of a sheet-metal water-pipe of my design; and Fig. 2, an end view of the same.

To construct a water-pipe, A, according to my design, I take a sheet of metal, upon which I form, by rolls or other suitable mechanism, four longitudinal flutes or swells, *a*, each of which is substantially semicircular or otherwise segmental in section, and has a longitudinal recess or depression, *a'*, either angular or curved, at each of its sides. The relative size and position of the flutes and recesses and the intervening straight portions are such that when the sheet is bent and its edges united by seaming or other proper connection, a pipe is formed having a quadrangular sec-

tion, a flute or segmental swell at each corner tangential to the two sides adjacent thereto, and a recess or groove on each side of every flute, serving to give relief and prominence thereto without necessitating its projection beyond the body of the pipe.

My design combines a substantially rectilinear outline in consonance with the general architectural effect of buildings, with an ornamentation which is in clear relief, but without undue projection or prominence.

What I claim as my invention is—

A design for a sheet-metal water-pipe, having a substantially quadrangular section, a longitudinal flute or segmental swell at each corner tangential to the two sides adjacent thereto, and a recess or groove on both sides of each flute, substantially as set forth.

JOHN F. STARR, JR.

Witnesses:

J. SNOWDEN BELL,
JOHN F. CARR.