

J. G. PERRY.
Stovepipe Elbow.

No. 46,934.

Patented March 21, 1865.

Fig 1.

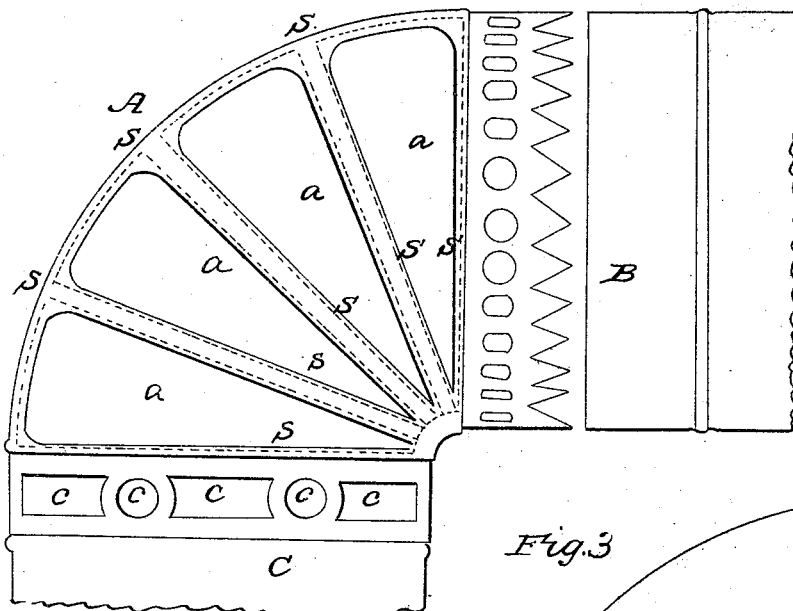


Fig 3

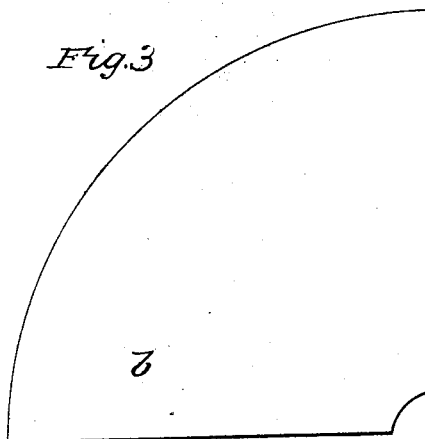


Fig 2

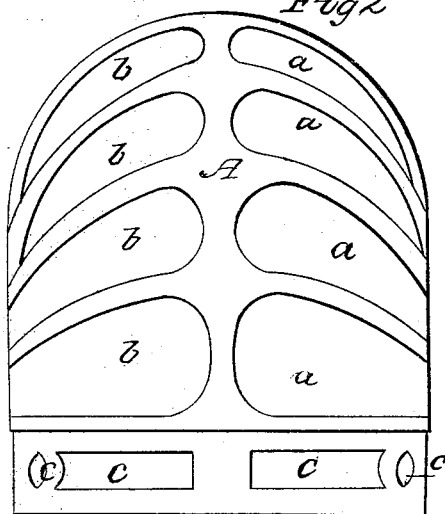
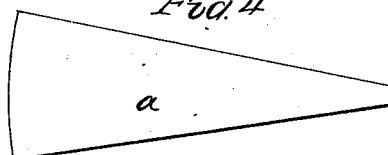


Fig 4



Witnesses
C. H. Perry
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Inventor:
John G. Perry

UNITED STATES PATENT OFFICE.

JOHN G. PERRY, OF SOUTH KINGSTON, RHODE ISLAND.

IMPROVED STOVE-PIPE ELBOW.

Specification forming part of Letters Patent No. **46,934**, dated March 21, 1865.

To all whom it may concern:

Be it known that I, JOHN G. PERRY, of South Kingston, in the county of Washington, in the State of Rhode Island, have invented a new and useful Improvement in Stove-Pipe Elbows; and I do hereby declare that the following is a full and correct description thereof, reference being had to the accompanying drawings, forming part of this specification, and to the letters of reference marked thereon, the same letter denoting like parts in all the figures.

Figure 1 is a side elevation of the elbow or frame. Fig. 2 is an elevation taken from the left of Fig. 1. Figs. 3 and 4 represent the shape of pieces of metal used to fill the openings in the elbow-frame.

My improvement consists in casting the elbow in a skeleton form or with openings *a b c* in its surface, for the purpose of reducing the weight and cost of the article, and these openings being filled or covered on the inside with pieces of sheet metal, or some suitable mineral substance, to give an ornamental appearance to the elbow, according to the design of the openings and what they are filled with.

The elbow-frame may be cast on a core or in any of the usual molds. The dotted lines *s s s*, Fig. 1, show where the inner edge of the openings is rabbeted out to receive the pieces *a b* of sheet metal. In case it is desired to use waste pieces of sheet metal, the rabbeted recess is carried around the edge of each open-

ing, and small pieces, like *a*, Fig. 4, punched or cut out and swaged to give them the proper degree of convexity to agree with the shape of the elbow. These pieces are then sprung into place in the recesses; but if large pieces of sheet metal are preferred, the rabbet is only made around the outside of as many of the openings as one piece will cover, and not between the openings, the surface of the metal there being left on a level with the bottom of the rabbet. *B* is the end of the pipe that goes on that end of the elbow. *C* is the end of the pipe that goes in or on that end of the elbow and closes the holes *c c c*.

I do not confine myself to any particular shape for the openings, for they may be varied to suit the taste of the constructor.

Having thus described my improvement in stove-pipe elbows, what I claim as my invention, and desire to secure by Letters Patent therein, is—

1. Making a cast-metal stove-pipe elbow-frame by leaving openings through its surface, substantially as herein described, and for the purposes set forth.

2. Closing the openings through the sides of a cast-metal stove-pipe elbow-frame with a piece or pieces of sheet metal, or any suitable mineral substance, substantially as herein described, and for the purposes specified.

JOHN G. PERRY.

Witnesses:

O. H. PERRY,
JOHN E. PERRY.