

P. J. BIESENBACH.

Stovepipe Elbow.

No. 98,659.

Patented Jan. 11, 1870.

FIG. 1

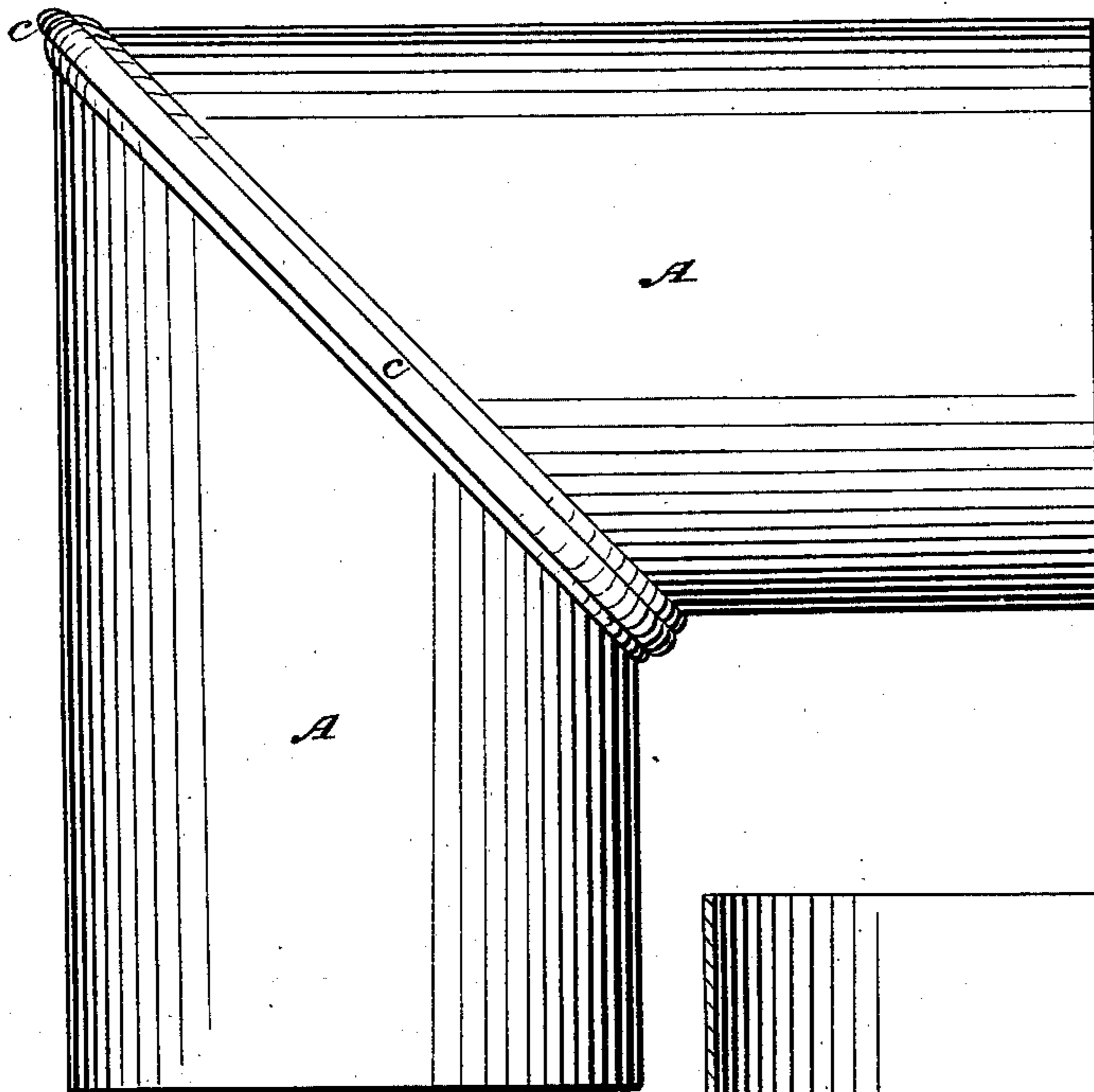
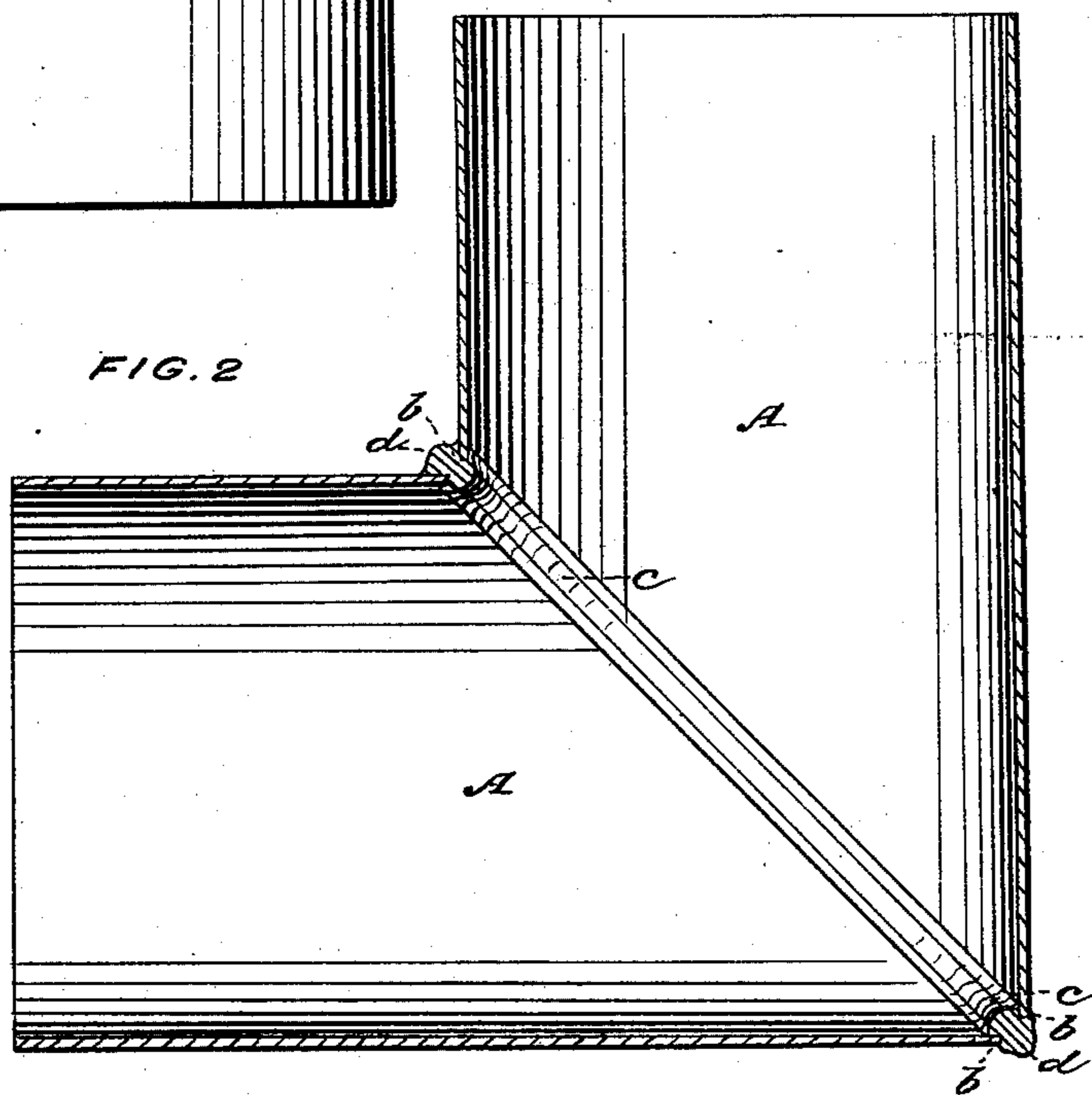


FIG. 2



WITNESSES:

H. S. Redfield
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INVENTOR:

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Atty

United States Patent Office.

P. J. BIESENBACH, OF ROCHESTER, NEW YORK.

Letters Patent No. 98,659, dated January 11, 1870.

IMPROVEMENT IN STOVE-PIPE ELBOWS.

The Schedule referred to in these Letters Patent and making part of the same.

I, P. J. BIESENBACH, of the city of Rochester, in the county of Monroe, and State of New York, have invented a certain new and useful Improvement in Stove-Pipe Elbows, of which the following is a specification.

The novelty in my invention consists in the manner of securing together the contiguous ends of the right-angled sections of a stove-pipe elbow, by casting the ends into a metallic ring or bead, in a mould, as hereinafter described.

In the accompanying drawings—

Figure 1 is a side elevation of my improved elbow, and

Figure 2, a longitudinal section of the same.

Like letters of reference indicate corresponding parts in both figures.

A A indicate the right-angled sections of the elbow-pipe, which are made, in the usual manner, of sheet-iron.

These sections of pipe are secured together by casting their contiguous ends, *b b*, into a metallic ring or bead, *c*, which forms the joint at the angle.

The operation of casting the said sections of pipe together is as follows:

A mould is made of the form of the ring or bead *c*, and corresponding in diameter with that of the pipe. The ends *b b* of the pipe are then made to project

into the mould a suitable distance, at right angles to each other, and the melted iron (or other suitable metal, if preferred) is run into the mould, and the ring or bead *c* is formed over the joint, with the ends of the pipe securely cast into the ring.

I prefer to leave a narrow space, *d*, between the ends *b b*, as shown in fig. 2, so as to allow the melted iron to pass through and form a bead both on the inner and outer sides of the pipe, and thus securely embed the ends into the solid cast-iron ring.

The parts are thus combined in such a manner as to make them very strong and durable, and give the elbow the appearance of being formed of a single piece of metal. There is no liability of the seams becoming separated, as in the ordinary elbow, and the ring or bead *c* will also have an ornamental appearance.

What I claim as my invention, is—

A stove-pipe elbow, having the right-angled sections A A, secured together by casting the contiguous ends *b b* into a metallic ring or bead, *c*, substantially as herein set forth.

In testimony whereof, I hereunto sign my name, in the presence of two subscribing witnesses.

P. J. BIESENBACH.

Witnesses:

J. A. DAVIS,

FRED. A. HATCH.