

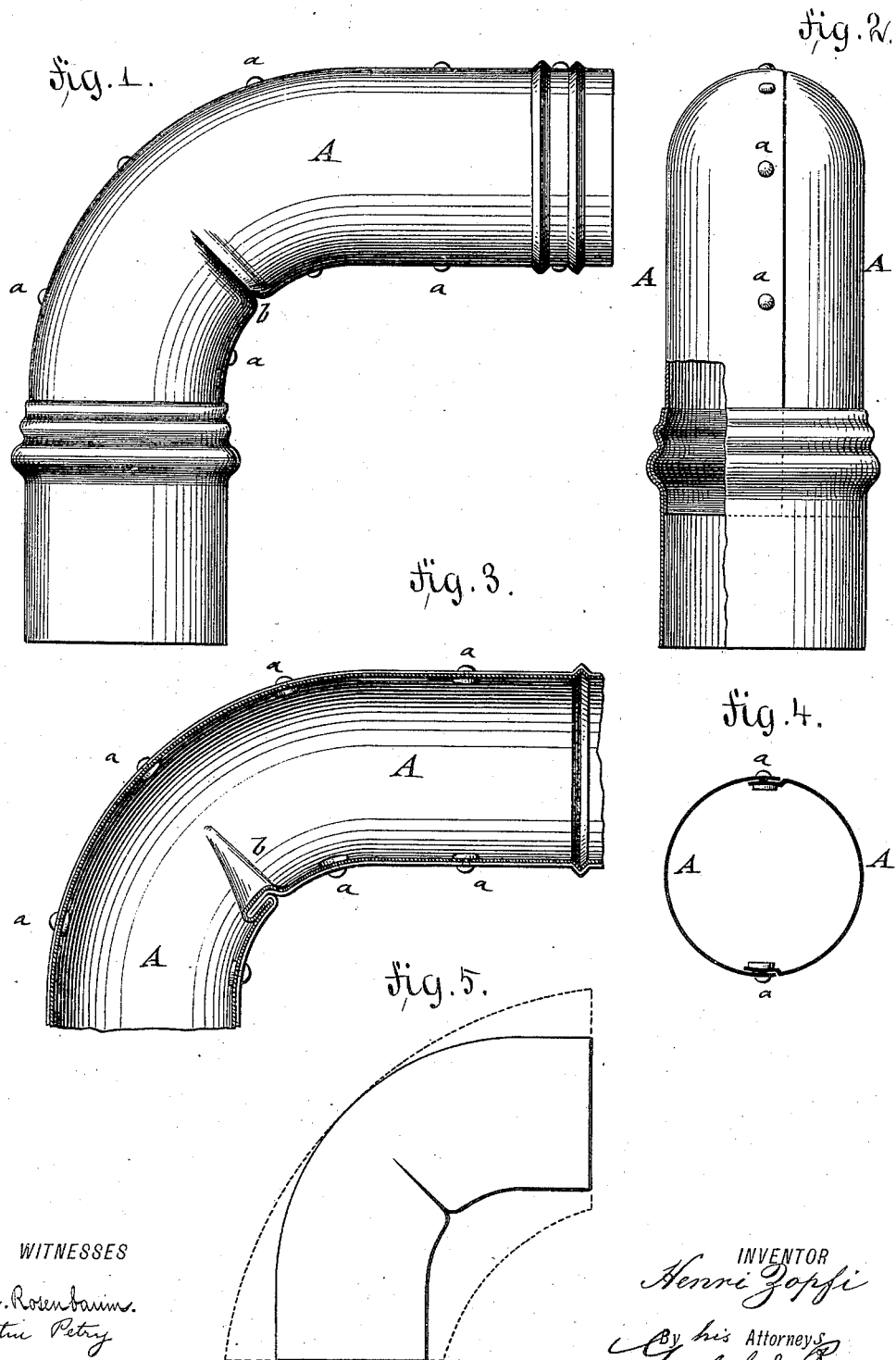
(No Model.)

H. ZOPFI.

STOVE PIPE ELBOW.

No. 341,985.

Patented May 18, 1886.



# UNITED STATES PATENT OFFICE.

HENRI ZOPFI, OF MONROE, WISCONSIN.

## STOVE-PIPE ELBOW.

SPECIFICATION forming part of Letters Patent No. 341,985, dated May 18, 1886.

Application filed August 7, 1885. Serial No. 173,887. (No model.)

*To all whom it may concern:*

Be it known that I, HENRI ZOPFI, of Monroe, in the county of Green and State of Wisconsin, have invented certain new and useful Improvements in Stove-Pipe Elbows, of which the following is a specification.

This invention relates to an improved stove-pipe elbow of cheap and simple construction; and the invention consists of a stove-pipe elbow made of two longitudinal sections or shells that have the stock crowded at the inner edge into one fold, and that are riveted together at the edges.

In the accompanying drawings, Figure 1 represents a side elevation of my improved stove-pipe elbow. Fig. 2 is an end view of the same with a part broken away; Fig. 3, a vertical longitudinal section; Fig. 4, a vertical transverse section, and Fig. 5 a detail of the blank of one section or shell of the elbow.

Similar letters of reference indicate corresponding parts.

My improved stove-pipe elbow consists of two longitudinal semi-sections or shells, A A, of semicircular cross-section, which are connected at their outer and inner meeting edges by rivets *a a*. Each shell or section A is bent into shape by pressing the blank into a mold of the required form, and cutting off the surplus metal at the edges, as shown in Fig. 5, wherein the dotted lines represent the blank before and the full lines the same after it is so bent into shape. At the inner edge of the shell A, where the stock is crowded together by the pressing operation, a single fold, *b*, is formed, which may be bent in an inward or outward direction. The elbow can be made either rounded off at right angles or with any other angle, so that elbows for any desired application are obtained. One semi-section, A, can be used for corner-pieces of gutters. The ends of the elbow are connected in any suitable manner to the connecting-pipes, either

by means of creases, grooves, or ridges, or in any other manner.

My improved stove-pipe elbow can be made of comparatively small pieces of sheet metal, and can be furnished at less cost than the pipe-elbows heretofore in use, especially as lighter sheet metal can be used for the same.

I am aware that it is not new to cut slits in the metal comprising an elbow and lap one edge of each of said slits over the other; but such construction renders the elbow defective in that it is liable to leak more or less at each cut, whereby the draft is impaired, whereas in the present device the metal being folded and not cut this contingency is avoided.

I am aware that it is also old to form crimps in one side of the body of a straight piece of pipe, thereby causing it to assume a bent shape in the form of an elbow; but in this instance costly and complicated machinery is necessarily employed, while in the present case the crimps or folds being made in the edges of two blanks, which are afterward fastened together, the operation of forming them is rendered much simpler and more easily accomplished.

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

A stove-pipe elbow composed of two semi-sections united at their longitudinal meeting edges, said sections being semicircular in cross section and provided with a single fold, which lies flat against the interior face of the elbow, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HENRI ZOPFI.

Witnesses:

J. H. STRAWNE,  
JOHN LUCHSINGER.