

(No Model.)

A. R. BENNETT.
DECORATED STOVE PIPE.

No. 326,094.

Patented Sept. 15, 1885.

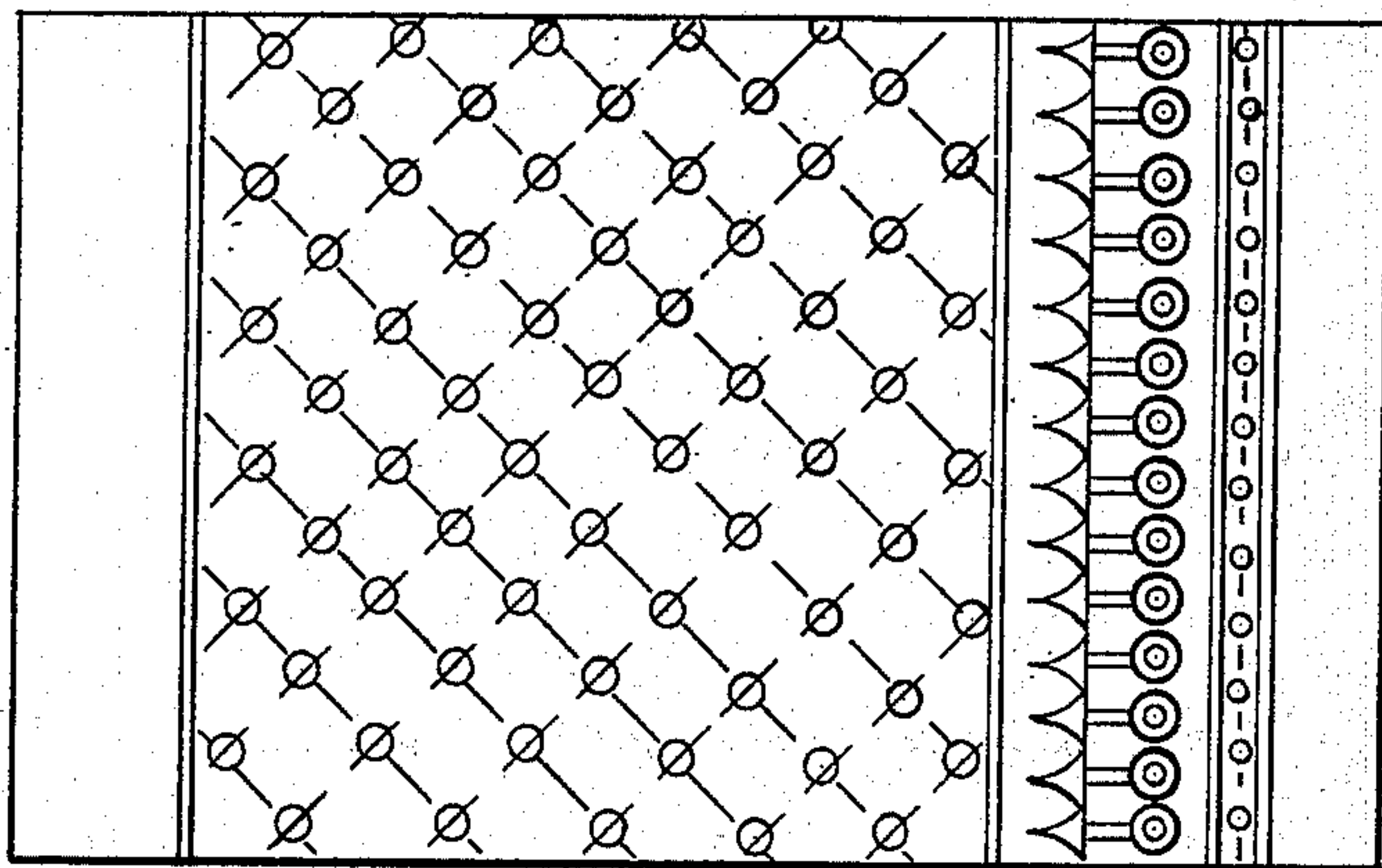


FIG. 1.

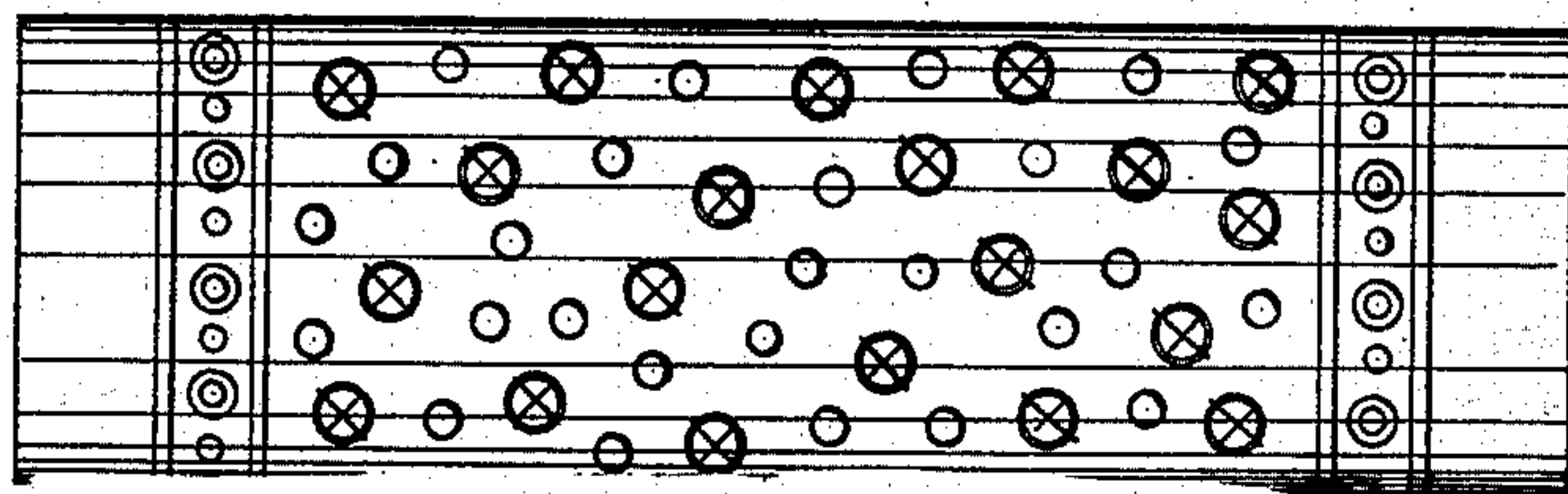


FIG. 2.

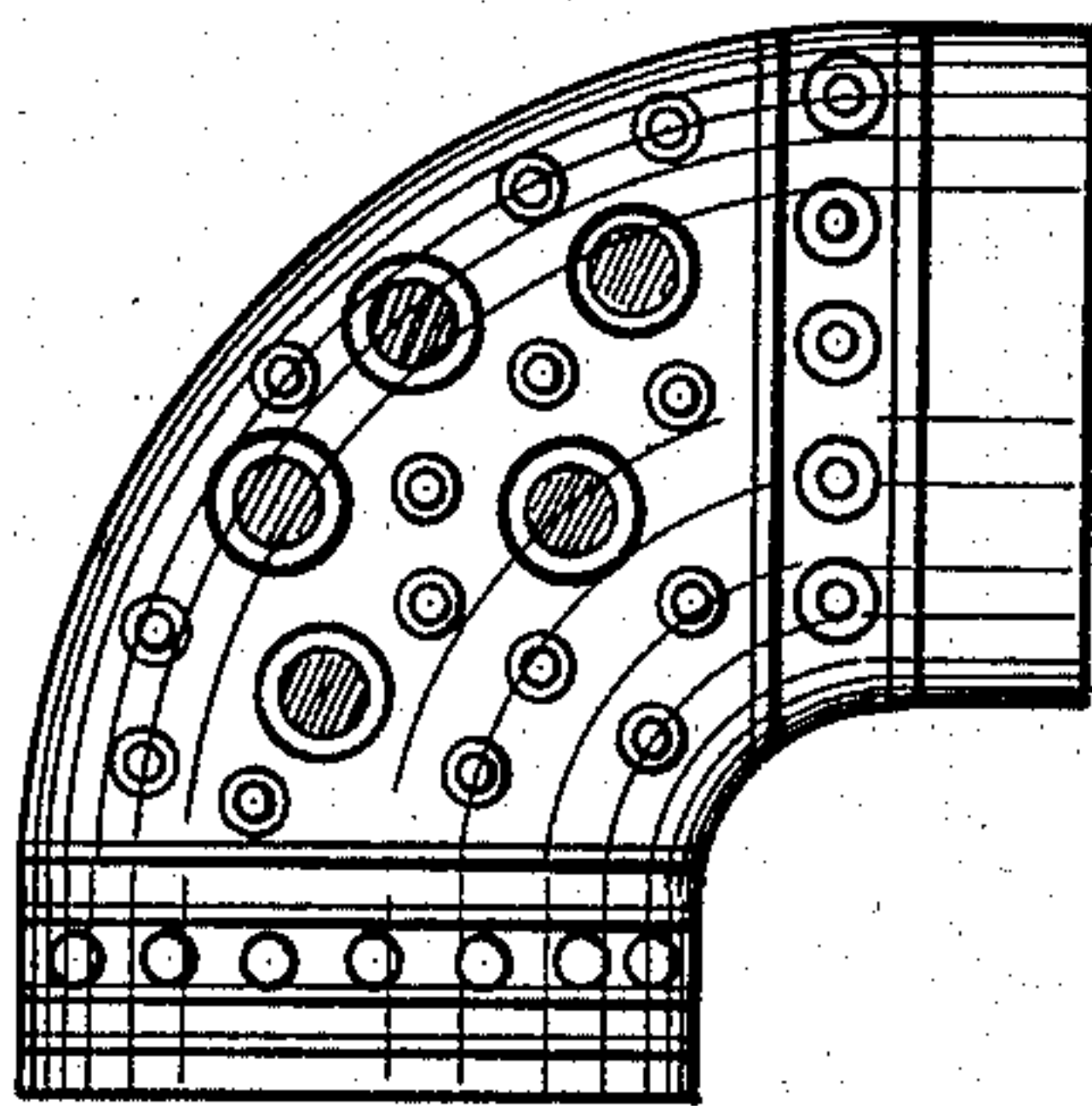


FIG. 3.

WITNESSES:

Pierpont Bastow.
Charles D. Dyer

INVENTOR.

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UNITED STATES PATENT OFFICE.

ANDREW R. BENNETT, OF UTICA, NEW YORK.

DECORATED STOVE-PIPE.

SPECIFICATION forming part of Letters Patent No. 326,094, dated September 15, 1885.

Application filed May 25, 1885. (No model.)

To all whom it may concern:

Be it known that I, ANDREW R. BENNETT, of the city of Utica, in the county of Oneida and State of New York, have invented a new and useful Improvement in Decorated Stove-Pipe, of which the following is a specification.

Heretofore various efforts have been made to decorate the external surface of stove-pipe formed from sheet metal, all of which efforts have proved unsatisfactory, mainly for the reason that no metallic or other paint has been found which will adhere to a metallic surface sufficiently strong to give satisfaction to those using the pipe. In the majority of cases the paint or decorated surface flakes and peels off. I overcome this trouble by providing a stove-pipe formed of fibrous material—such as asbestos, or of a substance of which this is the principal ingredient. By the use of asbestos card-board of suitable thickness and dimensions a light, durable, and cheap pipe can be produced capable of receiving and retaining suitable metallic paint upon its fibrous surface for decorating the same with designs to suit the manufacturer.

In the accompanying drawings, Figure 1 represents a sheet of fibrous material with the surface decorated ready for use. Fig. 2 represents an illustration of a length of pipe constructed from the decorated sheet illustrated in Fig. 1. Fig. 3 represents a side view of a decorated elbow constructed as hereinafter more fully described.

In the accompanying drawings a single form of decoration is represented. It is quite obvious that any other form or style of decoration may be used to suit the wishes of the manufacturer.

In constructing stove-pipe of fibrous material and to decorate the same with metallic paints I proceed substantially as follows: Sheets of asbestos of the required size and thickness are cut to the required size for use in constructing the pipe. These sheets thus provided are preferably submerged in a bath formed from water and glue to give the board

the required stiffness, a solution of glue and lard-oil, or a solution of silicate of soda dissolved in water, or any other similar compounds which will impart to the sheets a sufficient degree of stiffness and to hold the fibers compactly for forming a smooth and even surface. The sheets of card board thus provided should be kept in the bath a sufficient length of time to secure a complete saturation. They are then taken from the bath and passed between rollers under pressure. These rollers are preferably heated for producing a smooth and even surface. The sheets thus rolled, if desired, may be pressed flat to remove any wind that may be left by passing the same between the rollers. I then provide a wood-cut or electrotype for printing any desired pattern that may be wished upon the sheets before the same are formed into a pipe. The wood-cut or electrotype is put into a printing-press and the surface inked with ordinary metallic ink of any desired color. The impression is then made with a press upon the surface of the sheets. The sheets after the decoration is printed on them are passed through forming-rolls for bending the sheets into proper shape to be constructed into pipe. The elbows are formed by pressing them into shape with a press and dies formed for that purpose. The elbows are pressed into shape preferably in halves. The joints of the pipe and elbow may be riveted, or the edges of the pipe and elbow where the lap comes may be saturated with stiffening material before mentioned, and the seams lapped and passed between rollers under pressure for securing a proper seam in the pipe or elbow. Different methods may be used to accomplish the same purpose.

What I claim as new, and desire to secure by Letters Patent, is—

The herein-described process of decorating and constructing stove-pipe formed of fibrous material.

ANDREW R. BENNETT.

Witnesses:

EDWIN H. RISLEY,
PIERREPONT BARTON.