

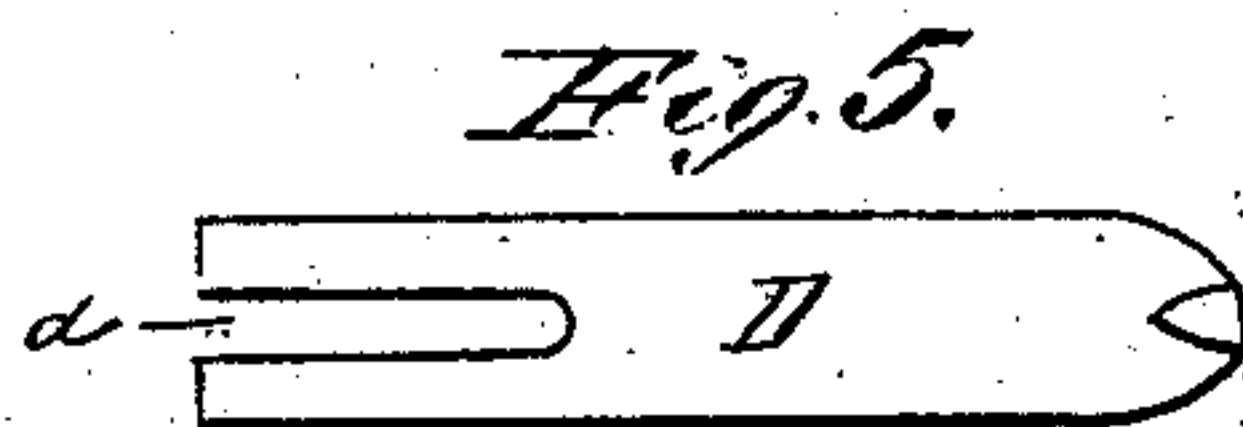
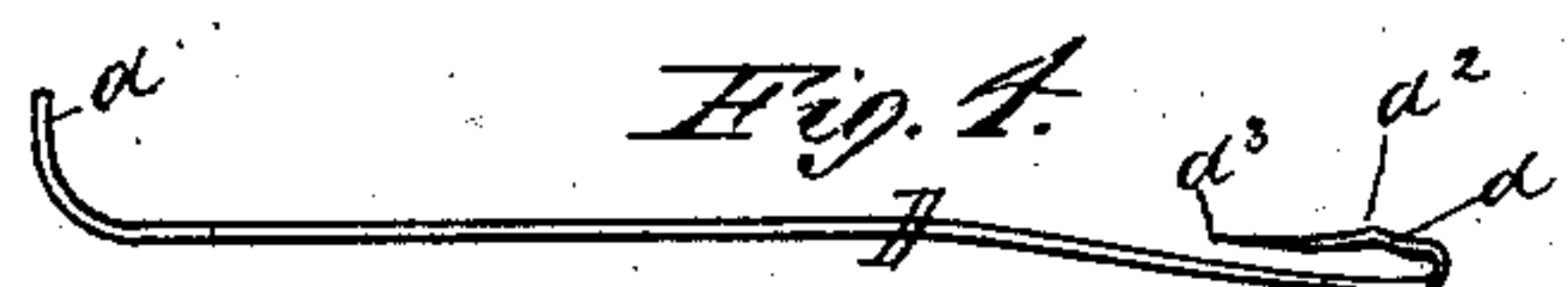
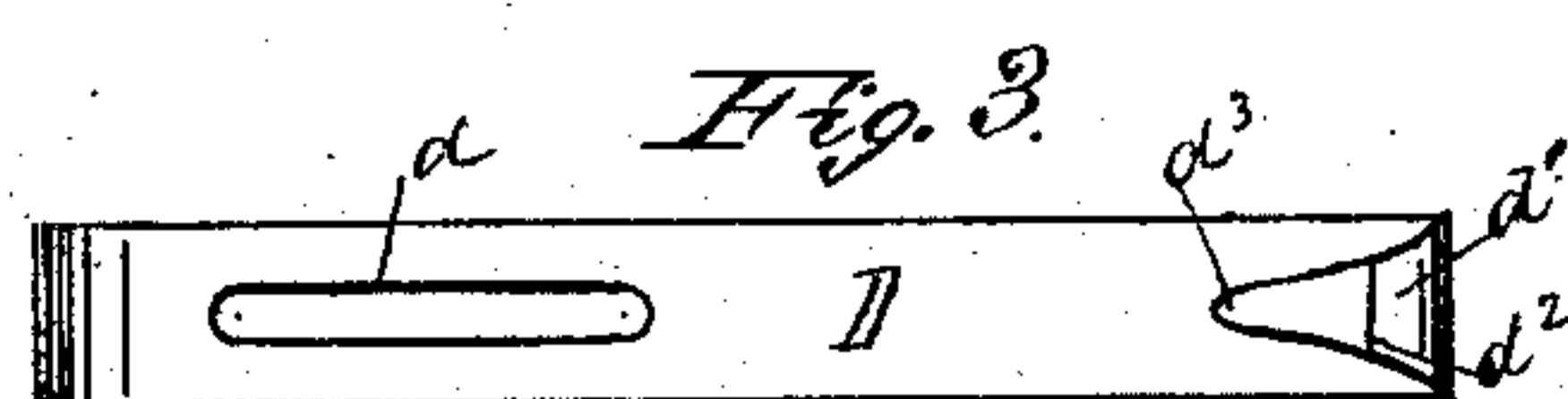
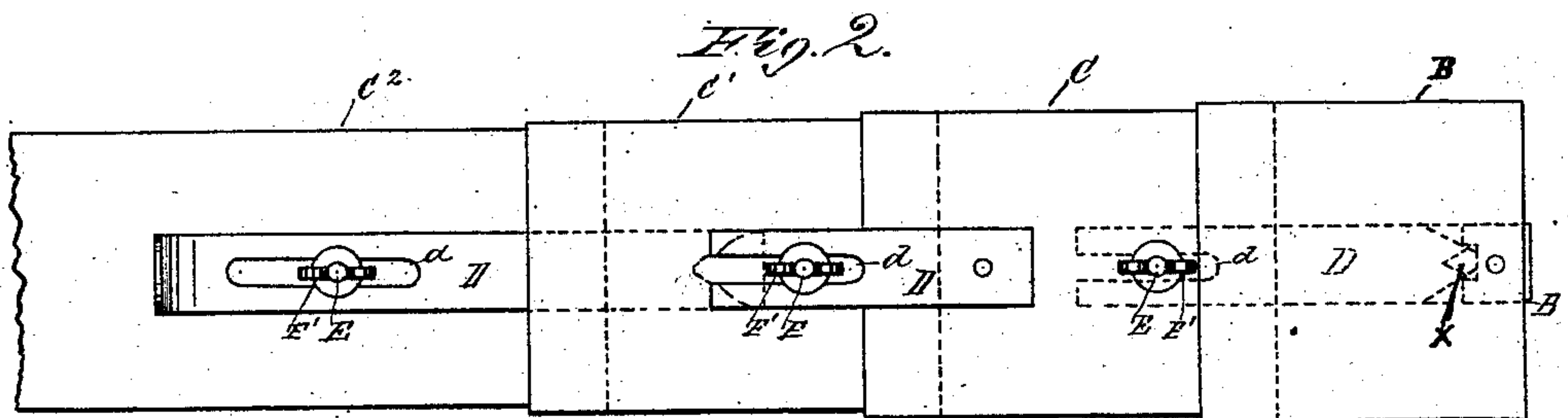
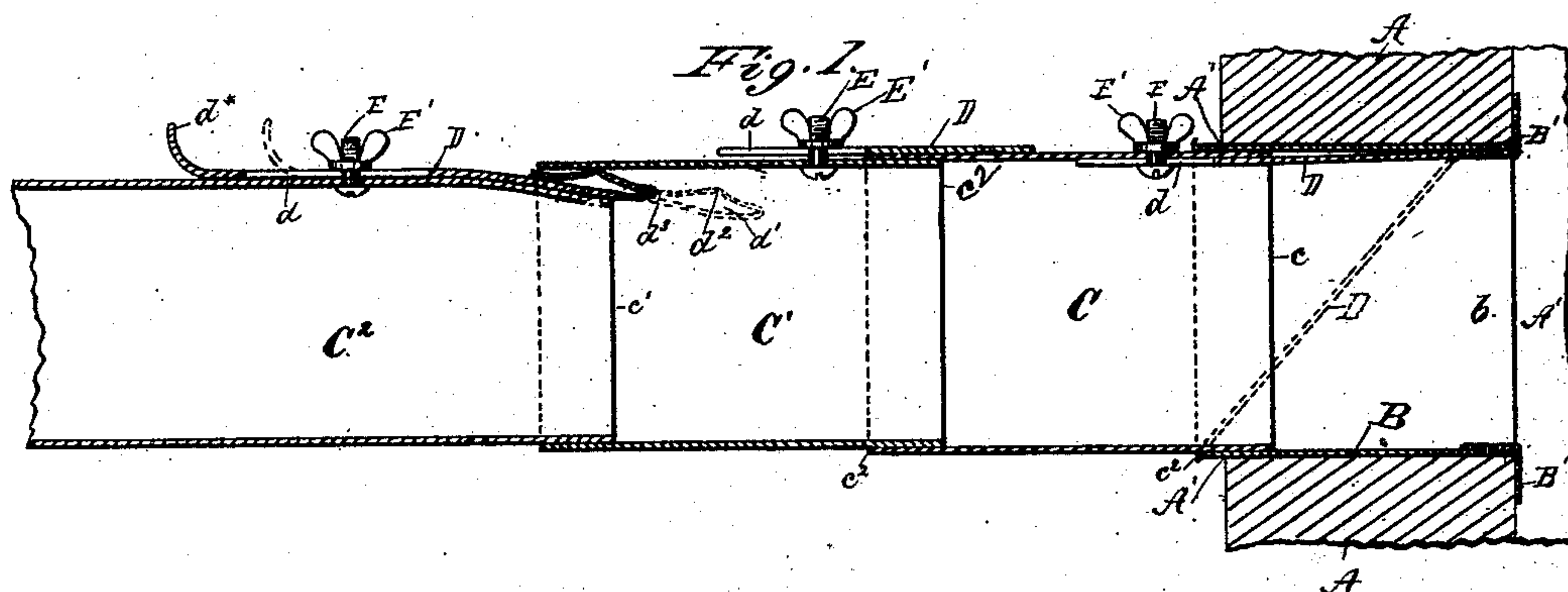
(No Model.)

J. Z. LINDLEY & J. V. ELDER.

STOVE PIPE.

No. 293,893.

Patented Feb. 19, 1884.



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# UNITED STATES PATENT OFFICE.

JACOB Z. LINDLEY AND JOHN V. ELDER, OF LAMAR, MISSOURI.

## STOVE-PIPE.

SPECIFICATION forming part of Letters Patent No. 293,893, dated February 19, 1884.

Application filed August 24, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, JACOB Z. LINDLEY and JOHN V. ELDER, citizens of the United States, both residing at Lamar, in the county of Barton and State of Missouri, have invented new and useful Improvements in Stove-Pipes, of which the following is a specification.

Our invention relates to improvements in pipes or tubes for conducting away the smoke and products of combustion from stoves and other similar devices; and the object is to insure the proper retention of the sections and elbows of the pipe correctly in position without the necessity for employing wires, nails, or other similar holding or retaining means, which are not only unsightly in themselves, but also damage the walls, ceilings, or other parts of a house or structure to which they are applied.

The nature of our invention will be fully explained by reference to the accompanying specification and the drawings annexed, which form part of the specification.

Referring to the drawings, Figure 1 is a sectional view; and Fig. 2 a plan of three sections of pipe with our improvements applied thereto, shown in position in a thimble supported in a stove-pipe hole. Figs. 3, 4, 5, and 6 are detail views separately.

In each of the views similar letters of reference are employed to indicate corresponding parts wherever they occur.

A represents a portion of the brick-work of a flue, and A' the stove-pipe hole leading to the flue.

B is a thimble, formed by preference of wrought sheet-iron, to the inside of which is riveted internally, toward its end *b*, one or more straps of metal, B', which are bent down behind the brick-work A, as shown in Fig. 1, for the purpose of preventing the withdrawal of the thimble B from the hole A'.

C, C', and C<sup>2</sup> are three sections of pipe, which are held in position by means and in the manner hereinafter to be fully explained. The sections C we have shown connected to the thimble B by means of a strap, D, which at one end is hinged to the inside of the thimble B, as clearly shown at *x*, Fig. 2, in dotted line, where the end *d*<sup>3</sup> is inserted into a slot in B and bent over, while its opposite end is provided with a slot, *d*, through which and a hole

in the small end *c* of the section C is passed a screw-bolt, E, which is held tightly, when desired, by means of a nut, E'. The sections C and C' are shown connected together by a strap, D; but in this case the strap is not hinged, but is fixed at one end upon the section C, while its other end, slotted at *d*, is arranged to slide on a screw-bolt passing through a hole in the section C' and said slot *d*. The bolt E is retained in position by a screw-nut, E'. The sections C' and C<sup>2</sup> are also connected together by the strip D; but in this case the strip is provided at one end with an upturned portion or handle, *d*\*, for the purpose of sliding it to and fro as desired. At its front end this strap D is formed with a returned spring portion, *d'*, which in plan we prefer to be of a pointed shape, and in side view and section to take the form of a double incline, as shown in Figs. 1 and 2, leaving an elevated portion, *d*<sup>2</sup>, at the junction of the two inclines. When it is desired to connect the section C' to the section C, the strap D is pushed forward into the position shown by dotted lines in Fig. 1. This having been done, the end of the strap will then protrude beyond the small end *c* of the section C', and may readily be inserted with the small end *c* within the larger end of the section C. This having been done, the strap or extension D is drawn back by means of the handle *d* into the position shown by full lines in Fig. 1, when the double-inclined spring portion *d'* will be brought so that its pointed end *d*<sup>3</sup> and elevated portion *d*<sup>2</sup> are jammed between the exterior of the small end *c'* of the section C' and the interior of the large end *c*<sup>2</sup> of the section C, thereby forming a wedge-shaped abutment, which will firmly hold the two sections C and C' together. When the strap or extension D has been drawn so that its end *d'* is in position to bind the parts C C' together, as described, the same is secured by tightening the nut E' and binding the strap D in position, where it will remain until the nut E is again loosened for the purpose of removing or adjusting the section. The sections C and C' are shown connected together by a slotted strap or extension, D, similar to that shown for the purpose of connecting the section C with the thimble B. In this case, however, in place of being hinged, it is shown riveted to the section C and engaging with a



bolt and nut E E', carried by the section C'. The strap D in this case, as will be seen, is arranged on the exterior of the sections.

Although we have only shown three straight sections of pipe connected together according to our invention, we can with equal facility use it for bent or curved sections or elbows.

The strap D, attached to thimble B, I prefer to be hinged, in order that in summer time when a stove is removed the strap D will fall, as indicated by dotted lines, so as to allow of the application of a flue-stop.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination, with a pair of sections of stove-pipe, of a sliding slotted strap or ex-

tension provided with a wedge-shaped end for the purpose of holding the said sections in position, substantially as and for the purpose described.

2. The combination, with a pair of sections of stove or other similar pipe, of a sliding slotted strap held in position by a binding-screw or equivalent means, and provided with an inclined spring extension or wedge, substantially as shown and described.

In witness whereof we have hereunto set our hands this 4th day of June, 1883.

JACOB Z. LINDLEY.

JOHN V. ELDER.

Witnesses:

B. G. THURMAN,

B. B. BOSTON.