(Model.)

J. S. BEEBE.

EXTENSIBLE STOVE PIPE.

No. 347,150. Patented Aug. 10, 1886.

Fig. 1.

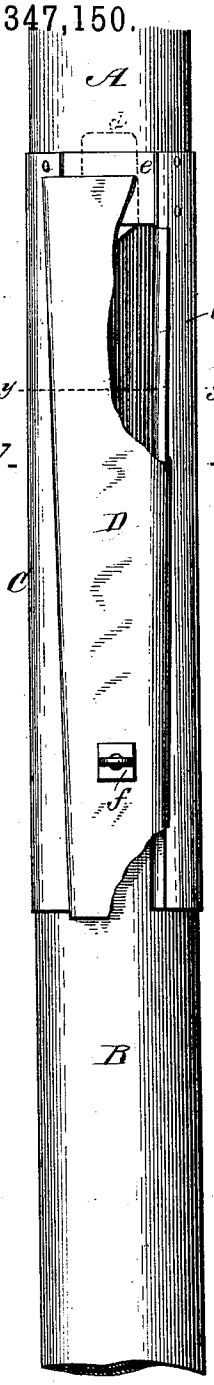


Fig. 2.

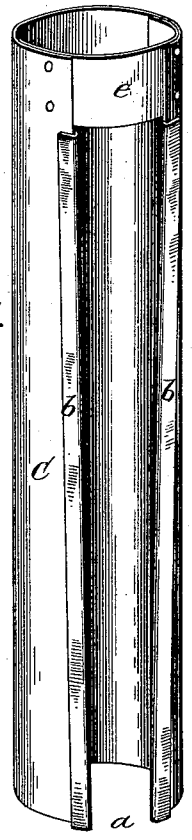


Fig. 3.

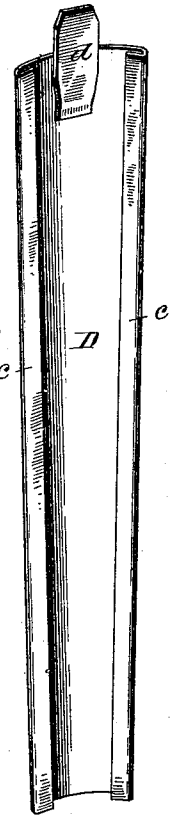
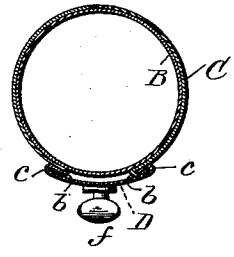


Fig. 4.



Witnesses
Wm. Pender,
L. L. Miller.

Inventor
John S. Beebe,
By his Attorney Chas. H. Fowler.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JOHN SUMERFIELD BEEBE, OF HOLDEN, MO., ASSIGNOR OF ONE-HALF TO DANIEL STEARNS AND WILLIAM H. LIDDLE, BOTH OF SAME PLACE.

EXTENSIBLE STOVE-PIPE.

SPECIFICATION forming part of Letters Patent No. 347,150, dated August 10, 1886.

Application filed January 14, 1886. Serial No. 188,575. (Model.)

To all whom it may concern:

Be it known that I, JOHN SUMERFIELD BEEBE, a citizen of the United States, residing at Holden, in the county of Johnson and State of Missouri, have invented certain new and useful Improvements in Extensible Stove-Pipes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a front elevation of my improved joint, partly in broken section, showing the two sections of stove-pipe connected thereto. Fig. 2 is a detail perspective view of the clamping-sleeve forming the joint; Fig. 3, a similar view of the device for drawing the sleeve tightly around the end of the lower stove-pipe section, and Fig. 4 a cross-section taken on line *y y* of Fig. 1.

The present invention has relation to extensible stove-pipes, and the object thereof is to provide a simple and effective joint thereof, whereby the stove-pipe can be conveniently lengthened or shortened to adapt it to flues of different heights without the necessity of cutting the pipe, which objects I attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A B represent the upper and lower sections, respectively, of a stove-pipe, the ends thereof fitting in a sleeve, C, which forms the joint between the two sections. This sleeve is both contractible and expansible in a direction transversely of its length, the contraction thereof being attained by mechanical means hereinafter described, while its expansion is effected by the natural or inherent properties of the sheet metal. To attain this last-mentioned result, I prefer to slit the metal in a longitudinal direction the entire length thereof, as shown at *a*, and upon each side of this slit is formed an overlapping flange, *b*, extending upon the outside of the sleeve C. The flanges *b* are for the purpose of receiving and acting as guides for similarly-formed flanges *c* upon the inner side and edges of a device for drawing the sides of the sleeve C tightly around the pipe-section B. In the present instance I have shown this device in the shape of a tapering key, D, provided at its upper end with a tongue, *d*, to overlap the inner side of the connecting-strip *e* at the top of the sleeve C.

When it is desired to lengthen or shorten the stove-pipe, the key D is pressed down by the knob *f* or other convenient device, and from the fact that the key increases in width in a direction toward its upper end, the lower end of the sleeve C is allowed to expand sufficiently to release its grip on the end of the pipe-section B, and enable the section to be moved up or down in the sleeve as required, and held in its adjusted position by shoving up the key, which will draw the lower end of said sleeve tightly around the pipe-section. By this means the stove-pipe can be lengthened or shortened to adapt it to flues of varying heights without cutting or piercing each length.

The bottom joint or section of pipe is connected to the stove, and the other sections of pipe extend from the section connected immediately with the sleeve.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the pipe-joints A B and with the sleeve C, split longitudinally and having the edges turned outward and backward to form inclined flanges *b*, and having also the strip *e*, of the key D, formed segmental in cross-section and having its edges turned inward to form inclined flanges *c*, to correspond with the flanges *b*, and the whole arranged for joint operation, as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN SUMERFIELD BEEBE.

Witnesses:
H. E. LARRIMER,
JOS. D. KING.