

J. WILLGING.  
Stove-Pipe Joints.

No. 150,383.

Patented April 28, 1874.

Fig. 1

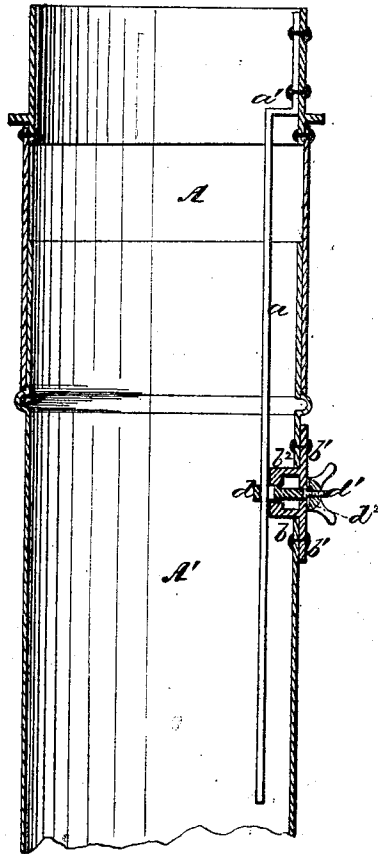
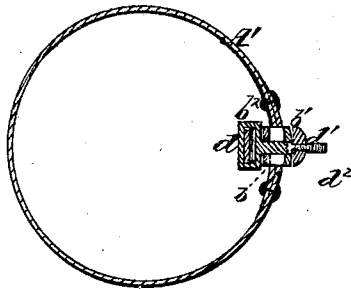


Fig. 2



Witnesses:  
James Martin Jr.  
J. N. Campbell.

Inventor:  
Jacob Willging  
by  
Marion Francis Lawrence

# UNITED STATES PATENT OFFICE.

JACOB WILLGING, OF DUBUQUE, IOWA.

## IMPROVEMENT IN STOVE-PIPE JOINTS.

Specification forming part of Letters Patent No. 150,383, dated April 28, 1874; application filed April 6, 1874.

*To all whom it may concern:*

Be it known that I, JACOB WILLGING, of Dubuque, county of Dubuque, State of Iowa, have invented a new and useful Improvement in Extension Attachments for Stove-Pipes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a vertical central section of my improved extension attachment for stove-pipes. Fig. 2 is a horizontal section of the same.

My improvement consists in the extension attachment constructed to be almost wholly applied inside of the pipe instead of outside of the same, as heretofore. By this construction an extension attachment presenting a much neater appearance is produced, and a superior fastening device is provided, and all the parts, excepting the clamp-screw and nut, being out of the way and out of sight.

A A' are two adjacent sections of a stove-pipe fitted one over the other, so as to have considerable amount of lap, as shown. To a malleable-iron collar of the section A a long thin bar, *a*, having an angular bend, *a'*, in it, is fastened by rivets, as shown. Thus applied the bar stands out a short distance from the inner circumference of the pipe, and extends down considerably into the section A'. To the section A' a clamp-box, *b*, is riveted. The cap and flange *b'* of this box are on the outside of the pipe, while the grooved portion *b''* is inserted through the pipe, and occupies a place within the section A'. Through the cap and the grooved end portion of the clamp-box a sliding clamping-collar, *d*, is passed, and on

the stem *d'* of this collar a screw is cut, and on this screw a thumb-nut, *d''*, is fitted, as shown. When the sections A A' are put together the end of the bar *a* is passed down through the rectangular hole in the collar just behind the grooved end of the clamp-box, as shown; and it is evident that by turning the thumb-nut the collar will be drawn into the groove, and will carry along with it the rod until the rod bears against the clamp-box, and is clamped so as not to be able to move up and down until the nut is slackened.

By this invention a stove-pipe may be shortened or lengthened, and thus adjusted for flue-holes placed at different altitudes.

I do not claim a rod and a clamp applied outside of a stove-pipe, as such contrivance is old. I do not claim the plan for extending stove-pipes shown in the patent of S. Johnson, granted March 18, 1873; nor do I claim the plan for a like purpose shown in the application of J. W. Kohn, filed April 9, 1869, because the former necessitates the arrangement of the main parts outside of the pipe, and the latter necessitates the slotting of the pipe; but

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

The combination of the bent rod *a*, the grooved clamp-box *b*, and the sliding clamping-collar *d*, applied upon the two adjacent sections A A' of a stove-pipe, the rod, the grooved portion of the box, and the collar of the clamp, being all within the pipe, substantially in the manner herein described.

JACOB WILLGING.

Witnesses:

JAMES JOHNSTON,  
LEWIS B. TUTTLE.