(No Model.)

G. G. CALDERWOOD.

STOVEPIPE ATTACHMENT.

No. 503,760. Patented Aug. 22, 1893.

Fig. 1.

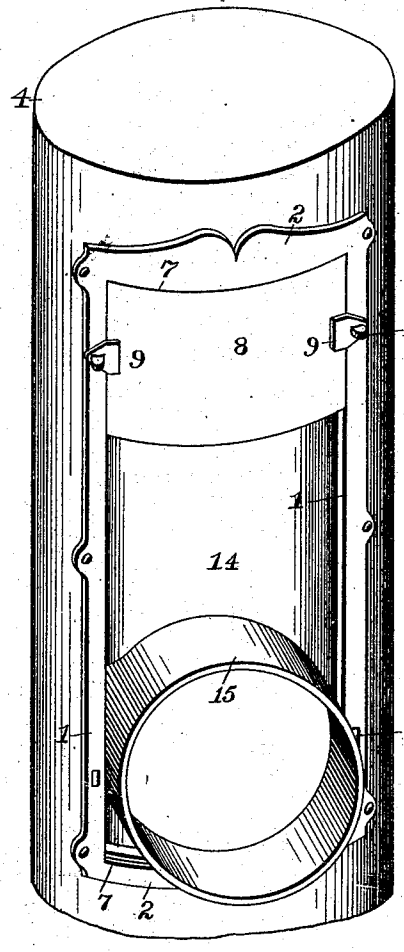


Fig. 2.

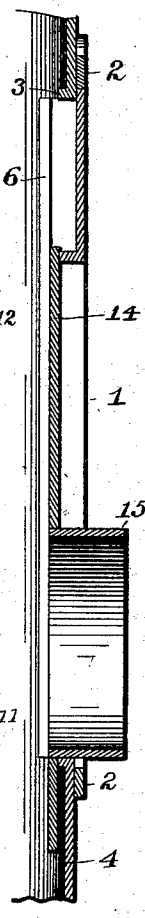


Fig. 3.

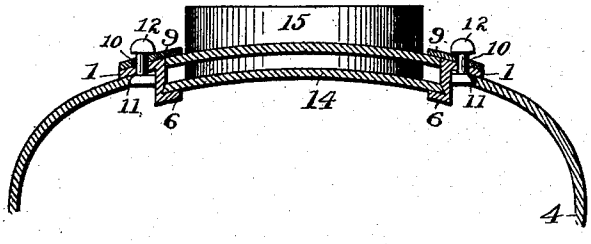
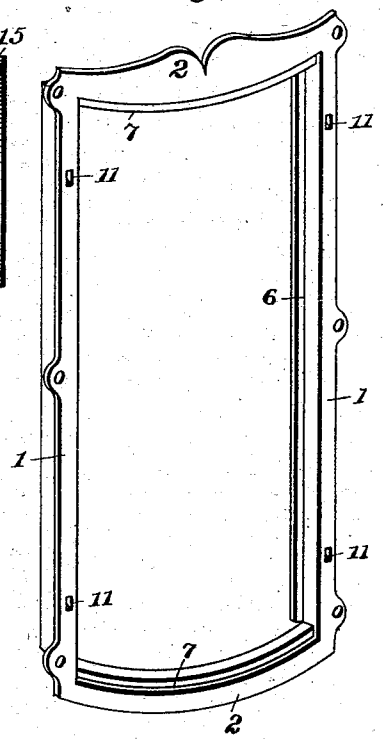


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE G. CALDERWOOD, OF BIDDEFORD, MAINE.

STOVEPIPE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 503,760, dated August 22, 1893.

Application filed April 25, 1893. Serial No. 471,825. (No model.)

To all whom it may concern:

Be it known that I, GEORGE G. CALDERWOOD, a citizen of the United States, residing at Biddeford, in the county of York and State of Maine, have invented a new and useful Stovepipe Attachment, of which the following is a specification.

My invention relates to stove-pipe attachments, and more especially to improvements upon the construction of attachment illustrated, described, and claimed in United States Patent No. 483,207, granted me September 27, 1892.

In the above patent was illustrated a metal frame adapted to be applied to an oblong opening in the upper end of the top section of the vertical stove-pipe employed at the back of a stove, and in said frame was located a sliding plate carrying a collar designed to be adjusted to a point opposite the stove-pipe opening in the chimney and therefore to be connected with the same by a horizontal section of pipe, thus obviating the necessity of fitting the pipe to different heights of openings in the chimneys each time the stove was set up, and also the employment of an elbow for this purpose.

The objects of my present invention are, as before stated, to improve upon this construction and to provide a cast-metal frame so constructed as to adapt it to fit neatly in the opening of the stove-pipe to form a tight joint therewith; to be adjustable vertically so as to adapt it for connection with the pipe receiving holes of various chimneys; and to secure the above in a cheap, simple, and economic manner, and to arrange for accomplishing such adjustment with facility.

With these and other objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a perspective view of the upper section of a vertical stove-pipe, the same being provided with an attachment constructed in accordance with my invention. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a transverse sectional view. Fig. 4 is a detail in perspective of the attachment.

Like numerals of reference indicate like parts in all the figures of the drawings.

The attachment consists in an oblong cast-metal frame comprising the opposite vertical sides 1 and the upper and lower transverse connecting portions 2, the whole constituting an oblong frame adapted to fit snugly in a correspondingly shaped opening 3 with which the stove-pipe section 4 is provided.

The longitudinal sides 1 of the frame have extending from their inner edges L-shaped ways 6 which are parallel with each other, and the same are adapted to receive the collar-carrying adjustable plate hereinafter described. The frame overlaps the outer face of the pipe and is transversely curved to correspond with the curvature of the pipe so that the opening in which the frame is located and which is formed in the pipe is not visible from the exterior. The upper and lower transverse portions are provided upon their inner edges with angular recesses 7, and adapted to take into either one of the same is a closing-plate 8. The closing-plate 8 is designed to cover a portion of the oblong opening of the frame, and may be located either at the upper or lower end thereof. Thin metal ears 9 are located at the opposite sides of the plate and overlap the frame and are provided with small oblong slots 10 which register with reversely arranged slots 11 formed in the side-portions 1 of the frame near the upper and lower ends thereof. T-shaped keys 12 are passed into the slots 10 and 11 and by being given a half-rotation they interlock with the latter slots and prevent withdrawal of the filling or covering-plate, thus making the opening in the frame smaller. One edge of this filling-plate is adapted to fit into the shallow recesses either at the upper or lower ends of the frame, as shown in Fig. 2, it being necessary to reverse the plate when transferring it from one end to the other.

14 designates a metal plate transversely curved to conform with the curvature of the chimney and of the frame, and the said plate is of a length about agreeing with or slightly longer than the frame, and is of such width as to adapt it to be mounted and slid within the ways, whereby it is adjustable up and down within the frame immediately in rear of the filling or closing-plate. This sliding-plate is provided at its center with an outwardly extending pipe-fitting collar 15.

This completes the construction of the attachment, and the operation thereof is as follows: Whenever it is desired to set up the stove it is simply necessary to secure to the pipe-opening thereof a length of pipe sufficiently high to extend above the opening in the chimney-breast with which it is desired to make connection, then by moving the sliding plate vertically the collar thereof is adjusted until it reaches a line directly transversely opposite with the opening in the chimney-breast, when a horizontal section of pipe or line of pipe will be employed to effect the connection. It will be seen that the adjustment of the collar of the plate is only limited by the length of opening in the frame. The object of using the filling or covering-plate is to enable me to secure an adjustment only limited by the length of opening in the frame and at the same time obviate the necessity of employing a commensurately longer sliding plate, but to the contrary, by the employment of the filling or covering plate, a sliding plate no longer than the frame itself will permit of the adjustment necessary.

The attachment, it will be seen, is ornamental, and may be cheaply and economically constructed, and furthermore, be found very useful in avoiding the necessity and expense of elbows and the necessity of constantly readjusting and increasing or decreasing the length of the stove-pipe to fit holes of different chimneys every time the stove is reset.

Having described my invention, what I claim is—

In a stove-pipe attachment for the purpose described, the combination with the oblong transversely curved metal frame having its rear sides provided with parallel vertical ways extending inwardly from the frame, and its upper and lower transverse portions provided at their inner edges with angular recesses, of a filling or covering plate fitting between the opposite sides of the frame at either end thereof, ears slidably located upon the plate, the slots of the ears being disposed at right angles to those formed in the frame, T-shaped keys for locking the frame and plate together, and a collar-carrying sliding-plate mounted in the ways, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE G. CALDERWOOD.

Witnesses:
ELMORE E. WILLIS,
WALTER L. AYER.