No. 705,964. Patented July 29, 1902.

J. S. RHODES.

STOVEPIPE HOLDER.

(Application filed Sept. 3, 1901.)

(No Model.)

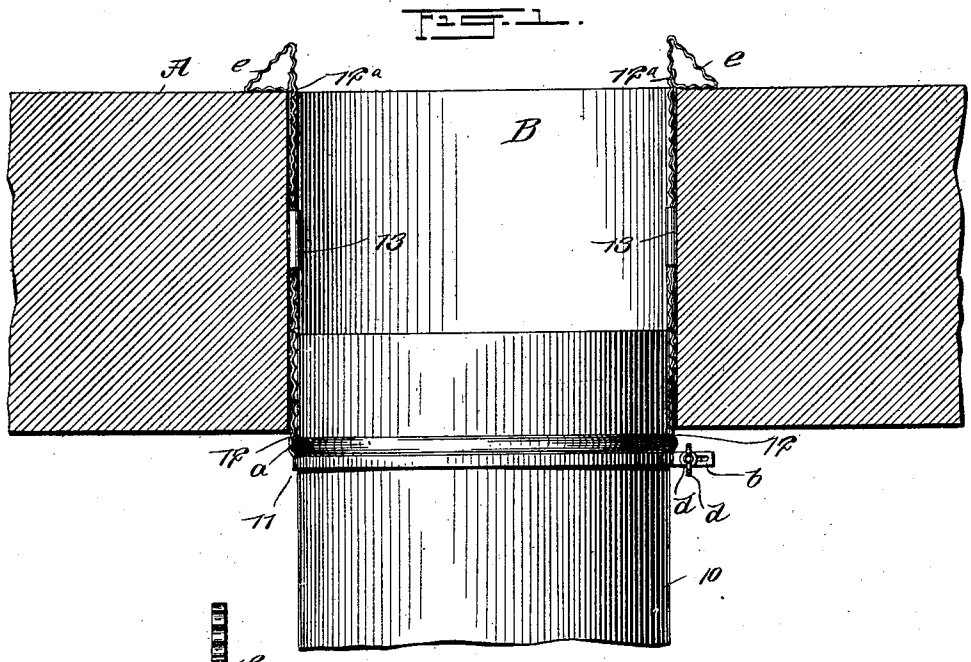


FIG. 1.

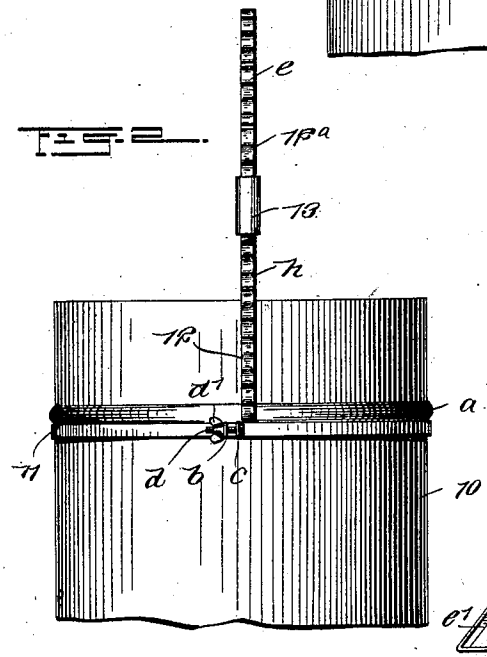


FIG. 2.

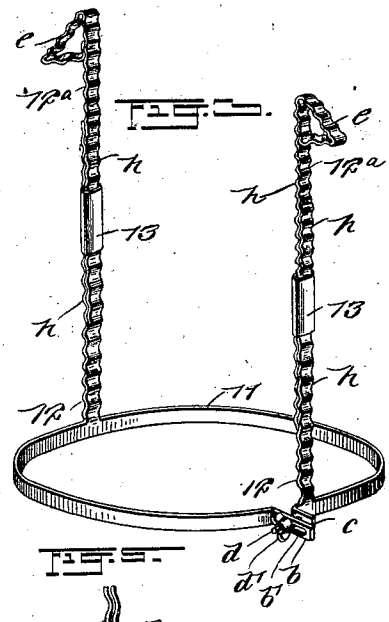


FIG. 3.

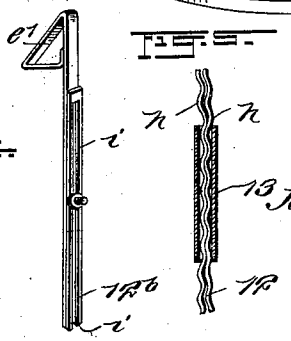


FIG. 4.

WITNESSES:

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STOVEPIPE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 705,964, dated July 29, 1902.

Application filed September 3, 1901. Serial No. 74,237. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH SHANNON RHODES, a citizen of the United States, and a resident of East Las Vegas, in the county of San Miguel and Territory of New Mexico, have invented a new and Improved Stovepipe-Holder, of which the following is a full, clear, and exact description.

This invention has for its object to provide a novel simple stovepipe-holder that is adjustable in its parts, so as to adapt it for general service and permit its application to stovepipes of different diameters and also enable its hooked engagement with chimney-walls of different thicknesses, whereby to clamp and hold the pipe in an aperture in a chimney-wall and prevent it from retrograde movement therein.

The invention consists in the novel construction and combination of parts, as is hereinafter described, and defined in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional plan view in part of a chimney-wall having a pipe-hole therein, a stovepipe end entered in the pipe-hole, and the improvement applied to retain the pipe in place. Fig. 2 is a side view of an end portion of a stovepipe and of the improvement thereon. Fig. 3 is a perspective view of the improvement detached from the stovepipe. Fig. 4 is a perspective view of a hook member in part—that is, a portion of the improvement—and shows one means for rendering the hook member longitudinally adjustable; and Fig. 5 is a partly-sectional edge view of a portion of one of the hook members for the pipe-holder, showing another means for adjusting its length.

In the drawings, which show the construction and application of the invention, A indicates the front wall of a chimney-flue, having a suitable aperture B therein for reception of one end portion of a stovepipe 10. The pipe that is shown in part when in completed condition, as usual, affords a draft-conduit extending from a stove, range, or furnace to enter the pipe-hole B for conducting waste products of combustion from the stove to the chimney-flue A. Near the extremity of the stovepipe 10, which enters the aperture B, an annular bead *a* is formed on the sheet-metal wall of said pipe, and this bead usually defines the length of the pipe portion that occupies the aperture in the chimney-wall.

Upon the pipe-body 10 an open clamping-band 11 is mounted and adapted for constriction upon said body, so as to closely embrace the same. The preferred means for securing the ends of the band 11 together in a manner which permits said ends to be drawn toward each other for reducing the diameter of the circular band consists, essentially, of the following details of construction: Each end of the open band is bent outward to provide arms *b c* thereon, and, as shown, the arm *b* slightly exceeds in length the arm *c* and has a longitudinal slot *b'* formed in it. While the slotted arm *b* is shown longer than the arm *c*, yet it is to be understood that the length of the said arm will depend upon the point at which it is bent, this varying according to the size of the pipe to be embraced by the band, as hereinafter described. A bolt *d*, having a head on one end and a nut *d'* on the other end adapted for adjustment on the threaded portion of said bolt, is passed through a perforation in the arm *c* until its head impinges thereon and also through the slot *b'* when the nut *d'* is removed. As the band 11 is made of strap-iron and therefore is bendable, it will be seen that the band may be bent at different distances from the outer end of the slot in said arm and the bolt *d* adjusted in the slot of the arm *b*, so as to increase or diminish the diameter of the band to permit it to fit stovepipes of different sizes, an outward movement of the bolt increasing its diameter and an inward movement diminishing it in an obvious manner, so that the band 11 may be clamped upon different sizes of stovepipes.

From the band 11 two limbs 12 project in the same direction, these limbs being formed or secured at diametrically opposite points, one limb being preferably located adjacent to the arm *c*. An extension-limb 12^a is provided for each stationary limb 12, and the extension-limbs each have a hook *e* formed there-

on, said hooks projecting outside of the circle defined by the clamping-band 11. Each extension member 12^a of the limbs 12 is rendered longitudinally movable and securable upon a respective stationary limb, whereby to lengthen or shorten the two-part limbs, as occasion may require. One advantageous means for effecting an adjustable connection between each limb member 12 and its mating adjustable member 12^a is shown in Figs. 1, 2, 3, and 5 of the drawings, and consists in forming the bodies of the limbs and their complementary adjustable members with a succession of ribs h and intervening valleys h', or, in other words, rendering said limbs and extensible members undulating by corrugation of the same, so that the two parts 12 12^a of each limb may be interlocked together by imposing the movable members 12^a upon and in close contact with its mating member 12, a change in adjustment lengthwise being readily effected and the two sections interlocked by engagement of the corrugated surfaces thereof in an obvious manner. A tubulated clasp 13 is mounted to slide upon each limb 12, and when said clasps are slid over the lapped end portions of the limb members 12 12^a of each two-part limb it will be seen that the limbs have their members held from longitudinal and lateral displacement and practically are as substantial as if they were respectively formed of one strip of metal.

In Fig. 4 is shown another means for holding the two members of each limb together, so as to be longitudinally adjustable. In this construction the stationary limb 12^b is flat and has a longitudinal slot i therein of suitable length. The body of the movable member 12^c is also flat, has a slot i therein to conform with the slot in the stationary member 12^b, and through the slots of the said members a bolt is passed and by means of which the said members are securely locked together. The member 12^c is provided with a hook e', that projects laterally in the same direction as the hook on the construction hereinbefore described.

In application of the device having extensible limbs constructed in either way, as described, the band 11 is mounted upon the stovepipe 10 and clamped in contact with the bead a, or near it, which will permit the limbs on the band to project beyond the extremity of the stovepipe. The limbs are each adjusted for length, so that the hooks on their projecting ends will be adapted to hook upon the inner side of the wall A. The two-part limbs are bent toward each other somewhat, this being permitted by the resilience of their bodies, and the hooks on their ends are passed into the pipe-hole B until the hooks spring into normal position and hook upon the inner side of the wall A, as clearly shown in Fig. 1, which will adapt the device to hold the stovepipe in the pipe-hole B and prevent it from shifting endwise.

In order to remove the pipe from the chimney-aperture B, the clamp or band 11 is first released at its ends by removal of the nut d', and then said band is enlarged in diameter by springing its ends apart. This will allow the bead a on the pipe to pass through the band 11 and the withdrawal of the pipe from the chimney-wall. The pipe-holder may be removed from the chimney-aperture B by springing its limbs toward each other sufficiently to permit the hooks on the ends of said limbs to be disengaged from the wall A. Then the entire device will be released and can be drawn away from the wall.

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

1. The herein-described stovepipe-holder, consisting of an open band of bendable material and having an outwardly-extending arm at each end, one of the arms being provided with a longitudinal slot, a bolt carried by the short arm passed through the slot of the long arm and provided with a nut, corrugated stationary limb members projecting from opposite sides of the band, corrugated extension limb members overlapping a portion of the stationary limb members and provided with hooks at their ends, and a sleeve on the overlapped portions of the said limb members, as set forth.

2. A stovepipe-holder, comprising an open band of bendable material, arms on ends of the band, one arm having a longitudinal slot, a screw-bolt and nut on the other arm, the bolt passing through the slot and the nut clamping the arms toward each other, and two limbs adjustable for length having hooks on outer ends, and projecting from the band at one edge thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH SHANNON RHODES.

Witnesses:
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C. D. RHODES.