

Feb. 19, 1935.

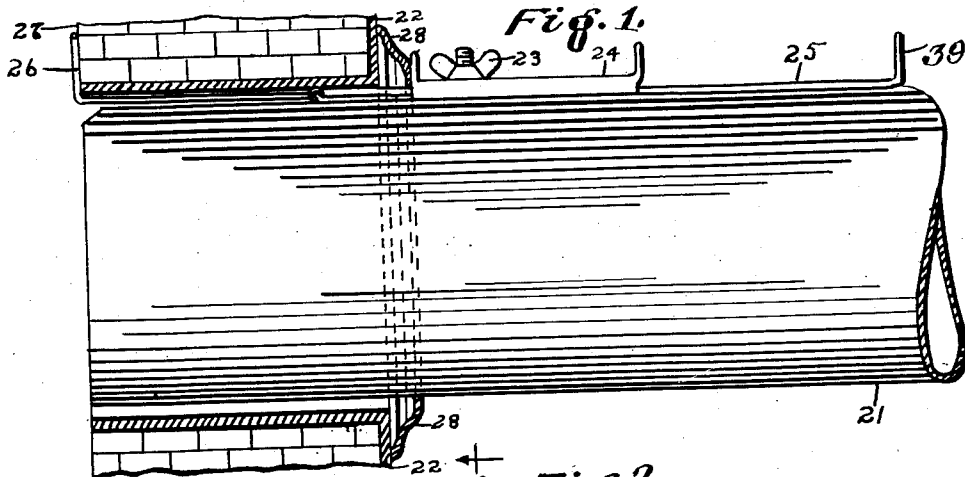
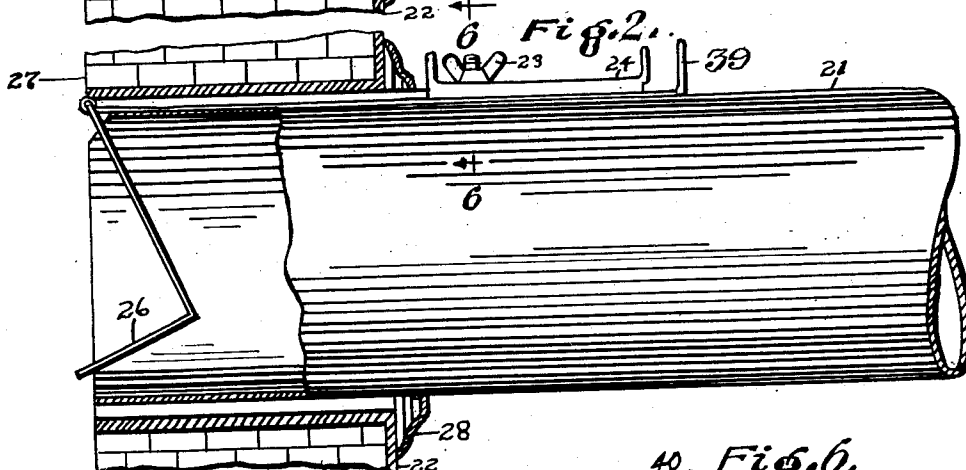
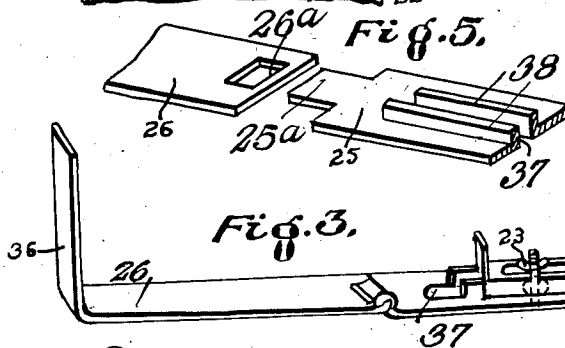
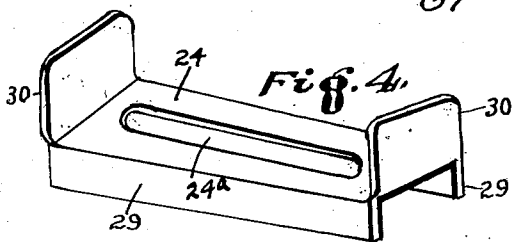
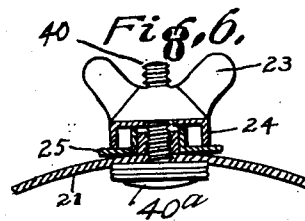
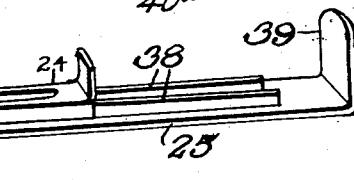
A. MILLINGER

1,991,565

ADJUSTABLE HOLDING DEVICE

Filed Dec. 14, 1931

2 Sheets-Sheet 1



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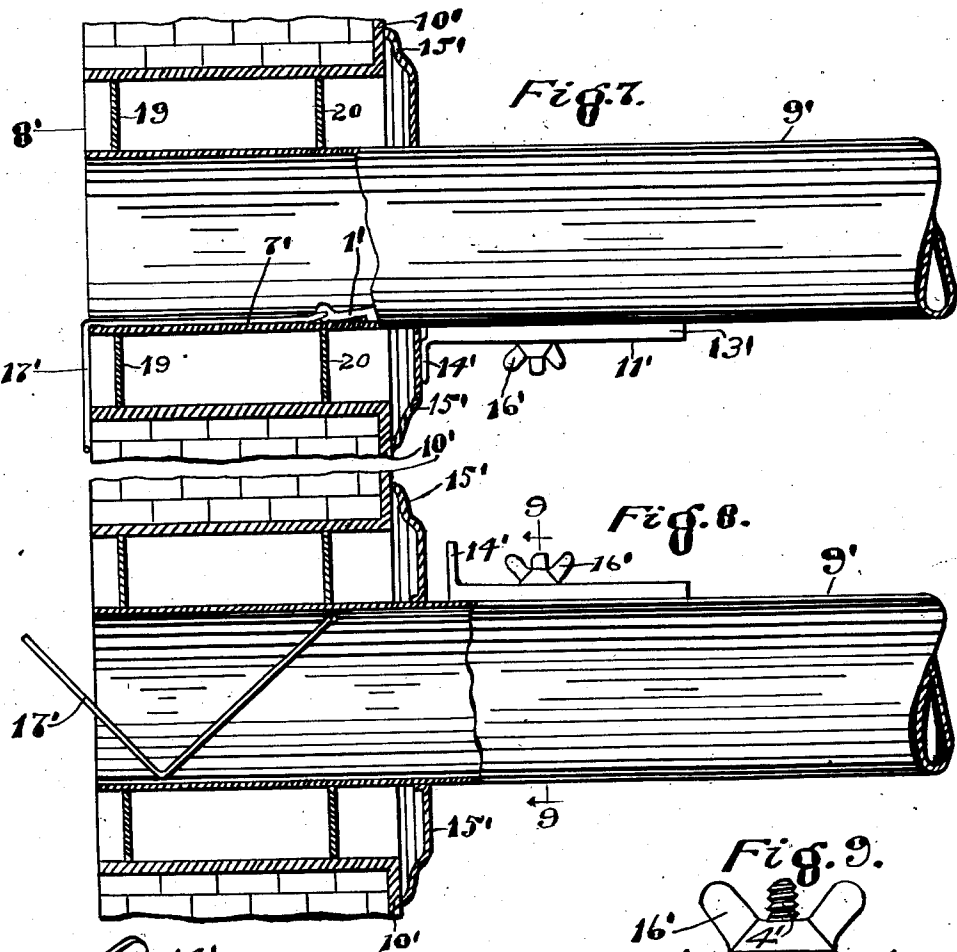
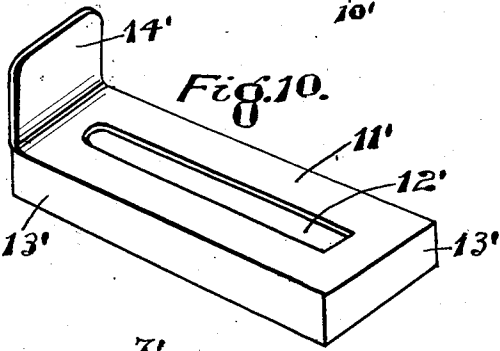
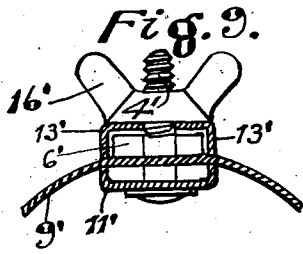
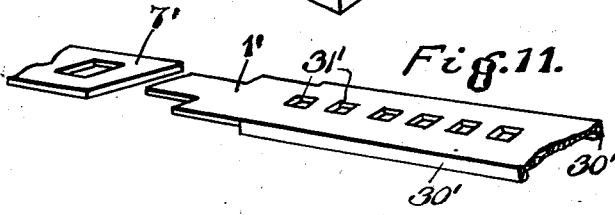
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ADJUSTABLE HOLDING DEVICE

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2 Sheets-Sheet 2



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1,991,565

ADJUSTABLE HOLDING DEVICE

August Millinger, Louisville, Ky.

Application December 14, 1931, Serial No. 580,785

1 Claim. (Cl. 126—318)

This invention relates to certain new and useful improvements in adjustable holding devices for stove pipes.

The primary object of the invention is to provide an adjustable holding device for stove pipes wherein the pipe is effectively held and anchored in a wall flue and readily detachable or removable therefrom.

A further object of the invention is to provide an adjustable holding device of the foregoing character wherein the holding device comprises cooperating relatively adjustable members adapted for clamping engagement with flue walls of different thicknesses to adapt the device for substantially universal mounting.

With the above and other objects that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings and claimed.

In the drawings:—

Figure 1 is a side elevational view of a stove pipe set into a flue opening in a chimney wall, the flue collar and ring being shown in section and the holding device arranged exteriorly of the stove pipe.

Figure 2 is a view, similar to Figure 1, with parts broken away to illustrate a part of the pipe holding device in its pipe releasing position.

Figure 3 is a perspective view of the adjustable holding device for the stove pipe.

Figure 4 is a perspective view of the slotted clamping member of the holding device that is engageable with the flue ring.

Figure 5 is a fragmentary perspective view showing the separated ends of two of the holding members before assembly.

Figure 6 is a cross-sectional view taken on line 6—6 of Figure 2.

Figure 7 is a side elevational view, partly in section, of another form of holding device with parts thereof arranged interiorly of the stove pipe.

Figure 8 is a view, similar to Figure 7, showing the stove pipe rotated for placing one of the parts of the holding device in stove-pipe releasing position.

Figure 9 is a cross-sectional view taken on line 9—9 of Figure 8.

Figure 10 is a perspective view of the slotted clamping member arranged exteriorly of the stove pipe, and

Figure 11 is a fragmentary perspective view

of the adjacent ends of two parts of the holding device before assembly.

Referring more in detail to the accompanying drawings and particularly to Figures 1 to 6, there is illustrated an adjustable holding device associated with a stove pipe and chimney or flue wall adapted for rigidly anchoring a stove pipe in a flue opening. The reference character 21 designates a section of a stove pipe having one end thereof extending through a flue collar 22 in a flue opening in a chimney wall 27 and also through a flue collar 28. The adjustable holding device for the stove pipe 21 is shown in detail in Figures 3 to 5 and includes a pair of blade-like strap members 25 and 26 hingedly connected together by means of a tongue 25^a on one end of the strap member 25 that forms a barrel portion of a hinge when extended through the opening 26^a in the adjacent end of the strap member 26. The outer free end of the strap member 26 is bent at right angles as at 36 to provide a clamping arm.

The strap member 25 is longitudinally slotted as at 37 over the major length thereof and the side walls of the slot are bordered by upstanding parallel flanges 38. The outer free end of the strap member 25 is bent at right angles as at 39 to provide a hand grip for manually shifting the connected strap members.

A clamping device is associated with the strap member 25 and, as shown in detail in Figure 4, comprises a top wall 24 carrying depending side flanges 29 that are adapted to straddle the upstanding flanges 38 on the strap member 25 to be guided thereby when the clamping member is slidably shifted on the strap member. Each end of the top wall 24 of the clamping member is bent upwardly at right angles as at 30, one of which angle ends cooperates with the clamping arm 36 for retaining the stove pipe rigidly mounted within the flue opening, while the other angle end 30 constitutes a hand grip to facilitate adjustment of the clamping member.

A screw bolt 40 is passed through an opening in the stove pipe 21 with the enlarged head 40^a thereof engaged with the inner face of the stove pipe, the screw bolt 40 extending through the slotted opening 37 in the strap member and also through the longitudinal slot 24^a in the top wall 24 of the clamping member for the reception of a thumb nut 23 engageable with the clamping member.

The adjustable holding device is shown in Figure 1 in pipe-holding position. The clamping arm 26 is engaged with the inner wall of the chimney while one angle end 30 of the clamping

member 24 is engaged with the flue ring 28. In this position, the ring nut 23 holds the clamping member 24 bindingly engaged with the strap member 25 so that the parts are relatively immovable. It will also be noted from an inspection of Figure 1 that the hinged connection 25^a—26^a between the strap members 25 and 26 is located inwardly of the open sides of the flue opening. When it is desired to remove the stove pipe 21 from the flue opening, for purposes of repair, cleaning or the like, it is only necessary to release the thumb nut 23, slightly shift the clamping member 24 to space the same from the flue collar 28, and engage the outer angle end 39 of the strap member 25 for projecting the latter through the flue collar 22. The sliding movement of the strap member 25 locates the hinge connection 25^a—26^a between the strap members 25 and 26 at the inner side of the flue opening and beyond the inner end of the stove pipe and at which time the strap member 26 drops downwardly on its hinge mounting as shown in Figure 2. The stove pipe 21 with the holding device is then easily removed from the flue opening.

In the form of invention in Figures 7 to 11, the hingedly connected strap members of the stove pipe holding device are disposed interiorly of the stove pipe, while the clamping member associated therewith is disposed exteriorly of the pipe. The stove pipe 9' is set into a flue opening in which a flue collar 10' is mounted and the stove pipe 9' is supported within the collar 10' by means of spacer rings 19 and 20, the stove pipe also passing through a flue collar 15'.

The holding device comprises a pair of blade-like strap members 1' and 7' having a hinged connection therebetween similar to the form of hingedly connected strap members shown in Figures 3 and 5, the outer end of the strap member 7' being bent at right angles as at 17' to provide a clamping arm. The strap member 1' has depending side flanges 30' and a series of spaced openings 31' extending longitudinally thereof. The strap members 1' and 7' are located interiorly of the stove pipe 9'.

The clamping member forming part of the holding device is arranged exteriorly of the stove pipe and as shown in Figure 10 comprises a top wall 11' longitudinally slotted as at 12' and further provided with depending side and outer end flanges 13', the inner end of the top wall 11' being angularly bent as at 14' in a direction opposite the flanges 13'. A screw bolt 4' is passed

through a selected opening 31' in the strap member 1' and the head thereof is engaged with said strap member as shown in Figure 9, the bolt passing through an opening in the stove pipe 9' and also through a nut 6' at the outer side of the pipe 9' confined within the clamping member 11'. The threaded end of the bolt 4' projects through the slotted opening 12' in the clamping member for the reception of a thumb nut 16'.

From an inspection of Figure 7 it will be noted that the stove pipe 9' is so disposed as to locate the adjustable holding device at the lower side thereof with the clamping arm 17' engaged with the wall of the chimney at the inner side of the flue opening while the angle end 14' of the clamping member is engaged with the flue collar 15'. When it is desired to remove the stove pipe 9' from the flue opening, the thumb nut 16' is loosened, the clamping member shifted a short distance to space the angle end 14' thereof from the flue collar 15' and the pipe 9' rotated through an arc 180° to dispose the holding devices at the upper side thereof. With the parts so disposed, the strap member 7' gravitationally descends to the position shown in Figure 8 and at which time the stove pipe may be readily removed from the flue opening.

From the above detailed description of the invention it is believed that the construction and operation thereof will at once be apparent, and while there are herein shown and described the preferred embodiments of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

I claim:

The combination with a flue having a flue opening and a pipe section receivable in said opening, of an adjustable holding device extending parallel to the axis of said pipe, comprising a longitudinally slotted sheet metal member provided with an L-shaped end portion engageable with the inner wall of said flue, a second longitudinally slotted sheet metal member provided with an end portion adapted to abut the outer wall of said flue, said second member being provided with downwardly bent edge portions, and a threaded bolt passing through said pipe section and having a nut, said bolt and nut cooperating with the slots of said members and the edge portions of said second member to hold the first member against the wall of the pipe and the second member in rigid parallelism therewith.

AUGUST MILLINGER.