Feb. 11, 1930. V. A. JOHNSON ET AL 1,746,775

PIPE FITTING

Filed April 26, 1928

Fig. 1.

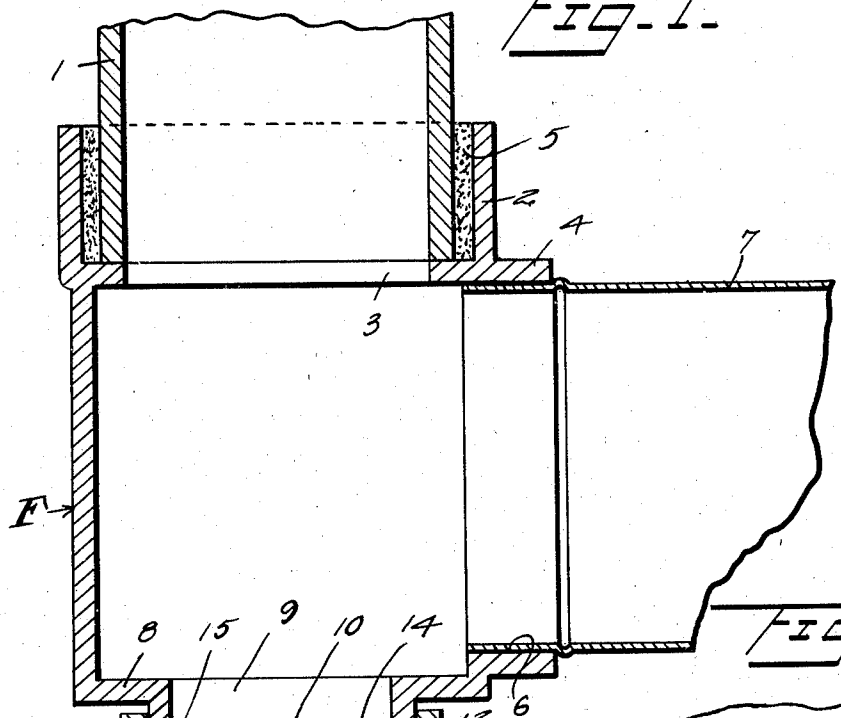


Fig. 4.

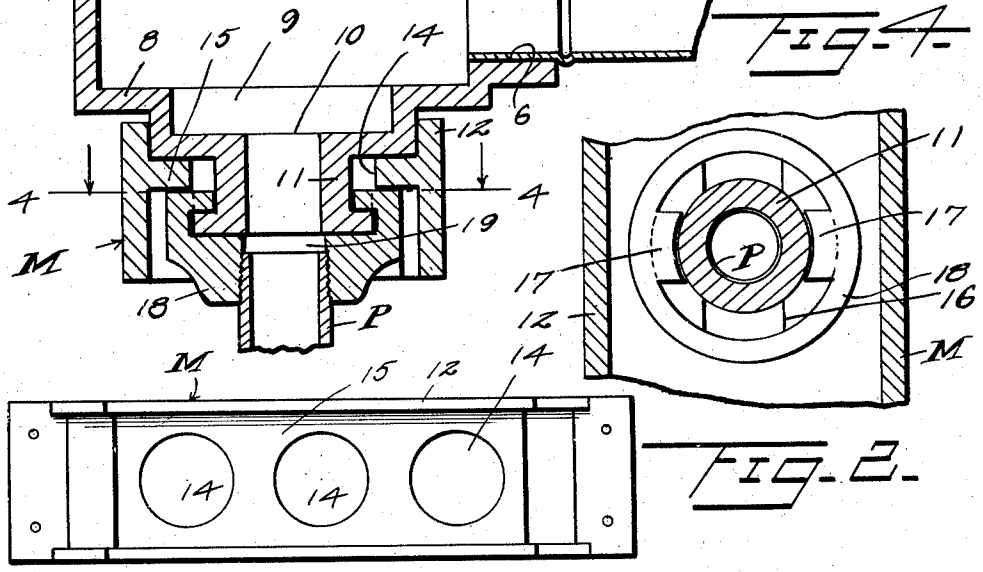


Fig. 2.

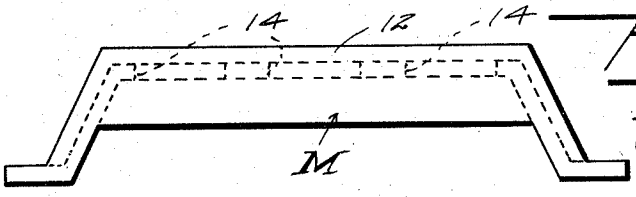


Fig. 3.

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UNITED STATES PATENT OFFICE

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PIPE FITTING

Application filed April 26, 1928. Serial No. 273,032.

This invention relates to a pipe fitting and it is an object of the invention to provide a fitting of this kind adapted to be interposed in a carry-off flue and provided with means whereby the stove pipe may be readily coupled therewith for requisite communication with the carry-off flue or vent and wherein the fitting is provided with means whereby water or kindred liquid collecting within the fitting may be readily drained therefrom.

It is also an object of the invention to provide a fitting of this kind which will obviate the necessity of separate chimneys for kitchens, bedrooms, bathrooms or any portions of the building where a main chimney cannot be used and where it is necessary to have a flue or vent to carry off the fumes produced by a gas fire or other vitiated air.

The invention consists in the details of construction and in the combination and arrangement of the several parts of our improved pipe fitting whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of our invention will hereinafter be definitely claimed.

In order that our invention may be the better understood, we will now proceed to describe the same with reference to the accompanying drawing, wherein:—

Figure 1 is a sectional view illustrating a pipe fitting constructed in accordance with an embodiment of our invention with an associated flue or vent and stove pipe being shown in fragment;

Figure 2 is a view in top plan of the support for the fitting as herein embodied unapplied;

Figure 3 is a view in side elevation of the support as illustrated in Figure 2;

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 1.

As disclosed in the accompanying drawing, 1 denotes the lower end portion of a carry-off flue or vent which is adapted to be disposed upwardly of a building and in communication with the atmosphere, preferably through the roof of such building. This lower portion of the flue or vent 1 is telescopically received within an upstanding flange or nipple 2 of requisite dimensions, the diameter of the field defined by the flange 2 being greater than the major diameter of the portion of the flue or vent 1 received therein. The flange 2 is concentric to but spaced from an opening 3 provided in the top wall 4 of the hollow fitting F, the diameter of the opening 3 being substantially equal to the internal diameter of the inserted end portion of the vent or flue 1 as is particularly illustrated in Figure 1.

With the flue or vent 1 in applied position with respect to the opening 3 of the fitting F, a filler 5 of iron or some other noncombustible cement is placed within the space between the flange 2 and the inserted end portion of the flue or vent thus assuring a fireproof joint.

A side wall of the fitting F is provided with an opening 6 in which is adapted to snugly engage an end portion of a pipe 7. This pipe 7 may constitute a carry-off pipe for use in connection with a gas stove or hood or other purpose to carry off vitiated air from within a room.

The bottom wall 8 of the fitting F is provided at its central portion with a depression 9 and the base of said depression 9 at its axial center is provided with an opening 10 continued by a depending nipple 11 defining such opening. The depression 9 is adapted to be received between the upstanding side flanges 12 carried by an elongated supporting member M while the sleeve or nipple 11 is selectively disposed through one of the openings 14. The member M in practice is adapted to be set between the studding of a building at the proper height and by the provision of a plurality of openings 14, the fixture F may be engaged with said member M as the requirements of practice may prefer especially to avoid any hindrance or obstruction to the drain pipe P to be hereinafter referred to which would otherwise necessitate bending of such pipe P.

The sleeve or nipple 11 is of a length to project below the body portion 15 of the mem-

ber M which is provided with the openings 14.

The free end portion of the sleeve or nipple 11 is provided with the outstanding flanges 16 extending partially therearound, the adjacent extremities being spaced to permit the passage therebetween of the inwardly directed lugs 17 carried by the upper portion of a coupling head 18 whereupon upon relative rotation between the head 18 and the sleeve or nipple 11, the head 18 is effectively engaged with the flanges 16 for contact with the body 15 of the member M to hold the fitting F in desired applied position with respect to the member M. The coupling head 18 has disposed therethrough a bore 19 registering with the bore of the nipple or sleeve 11 and threaded from below within the bore 19 of the coupling head 18 is the upper end portion of the drain pipe P. This pipe P is of any length desired and is adapted to extend within the basement or other desired discharge point to carry off water or kindred liquid which may be collected within the fitting F.

From the foregoing description it is thought to be obvious that a pipe fitting constructed in acordance with our invention is particularly well adapted for use by reason of the conveience and facility with which it may be asembled and operated, and it will also be obvious that our invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason we do not wish to be understood as limiting ourselves to the precise arrangement and formation of the several parts herein shown in carrying out our invention in practice except as hereinafter claimed.

We claim:—

1. In combination, a hollow fitting, a nipple extending from one wall of the fitting, the bore of the nipple being in ocmmunication with the fitting, a supporting member having an opening through which the nipple is disposed when the fitting is applied thereon, and a member receiving the nipple and engaging the supporting member for holding the fitting in applied position upon the supporting member.

2. In combination, a hollow fitting, a nipple extending from one wall of the fitting, the bore of the nipple being in communication with the fitting, a supporting member having an opening through which the nipple is disposed when the fitting is applied thereon, a member engageable with the nipple and the supporting member for holding the fitting in applied position upon the supporting member, said last named member having a bore registering with the bore of the nipple, and a drain pipe engaged within the bore of the last named member.

3. In a device of the character described, a hollow fitting, a reduced nipple extending from one wall of the fitting and opening thereinto, a support having the fitting resting thereon formed to receive said nipple, and means for engaging the nipple and the support for securing the fitting to the support.

4. In a device of the character described, a hollow fitting, a nipple extending from one wall of the fitting and opening thereinto and having a flange formed thereabout, said flange having recesses therein, a support for the fitting having an opening designed to have said nipple and flange extended therethrough, a securing member comprising a body having an annular recess therein designed to receive said recesses flange, and tongues extending into the recess from the body designed to engage over the recessed flange, said body abutting the support adjacent the nipple receiving opening when the tongues are engaged over the recessed flange to secure the fitting to the support.

In testimony whereof we hereunto affix our signatures.

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JOHN J. LAWLER.