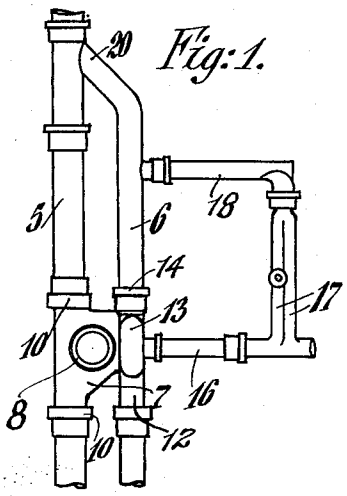
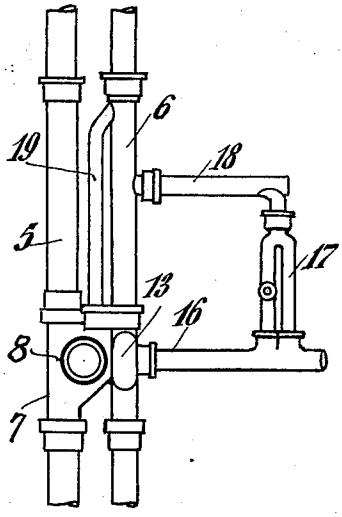
Feb. 18, 1930. E. KENNEDY 1,747,514

CONNECTING T FOR DRAINAGE FITTINGS

Filed Nov. 27, 1928

Fig:1.





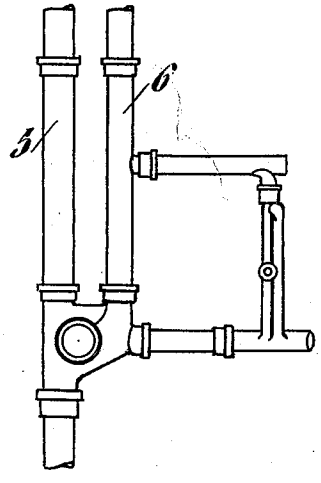


Fig:2.

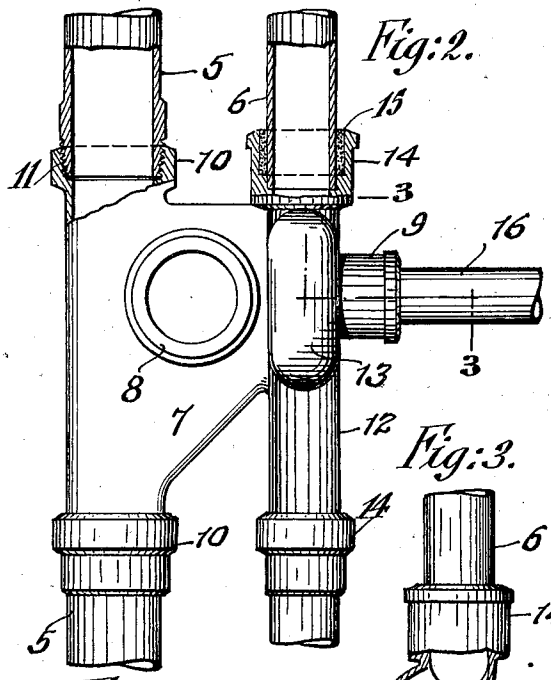


Fig:3.

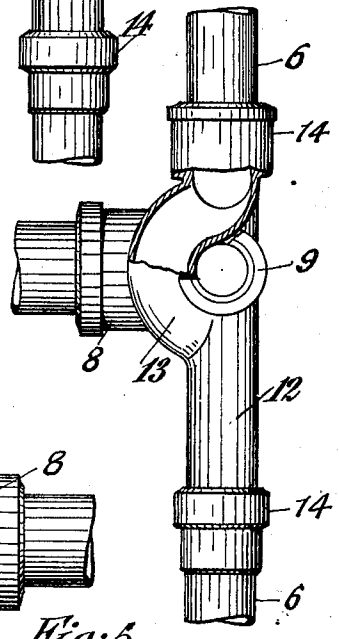


Fig:4.

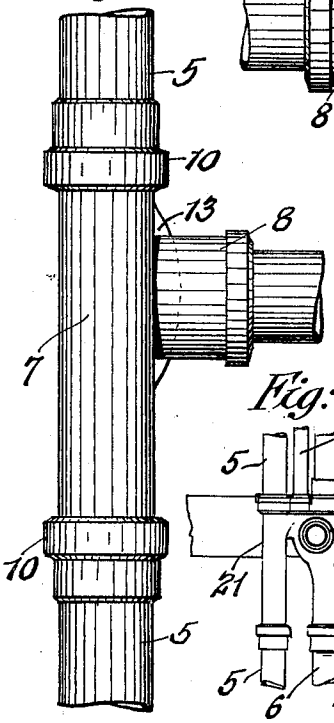


Fig:5.

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UNITED STATES PATENT OFFICE

EDWARD KENNEDY, OF NEW YORK, N. Y.

CONNECTING T FOR DRAINAGE FITTINGS

Application filed November 27, 1928. Serial No. 322,152.

This invention relates to connecting T's for drainage fittings, and has for one of its objects to provide a unit connecting member or T adapted for arrangement in the space between the ceiling of one room and the floor of the next room in a building which will greatly facilitate the installation of the fitting, and more particularly the revent pipe sections thereof.

More particularly, it is the object of my invention to eliminate the necessity of providing what is commonly known as a "jumpover" in the vent pipe section in order to enable the same to be positioned in the plane of the main waste pipe and at right angles to a lateral extension of the connecting T with which a secondary waste pipe from a basin or other fitting is adapted to be connected.

It is also an object of my invention to provide a one-piece unitary T or connection for the main waste pipe and vent pipe sections which is provided with reinforced internally threaded hub portions with which the waste pipe sections may be easily connected in accurate alignment with each other and with assurance against leakage.

It is a further general object of my invention to provide a unit or T connection for drainage systems as above characterized, which may be readily produced at nominal manufacturing cost, and which will materially decrease the expense incident to the installation of such drainage systems especially in connection with large building operations.

With the above and other objects in view, the invention consists in the improved connecting unit or T for drainage systems, and in the form, construction and relative arrangement of its several parts as will be hereinafter more fully described, illustrated in the accompanying drawings, and subsequently incorporated in the subjoined claims.

In the drawings, wherein I have illustrated several simple and practical embodiments of the invention, and in which similar reference characters designate corresponding parts throughout the several views,—

Figure 1 is a side elevation showing one practical embodiment of the device;

Fig. 2 is an enlarged detail elevation thereof partly in section;

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2;

Fig. 4 is an elevation looking at right angles to Fig. 2, and

Fig. 5 is a detail elevation partly in section showing a modified form of the invention.

Referring in detail to the drawing, 5 designates the several main waste pipe sections which extend vertically and are substantially equivalent in length to the distance between the floor and ceiling of the building room, while 6 designates the usual main vent pipe sections. These waste and vent pipe sections in the present invention, are connected in vertical alignment with each other by a common one piece T casting or connecting member generally indicated at 7.

The member 7 has a main body portion, one side wall of which is provided with one or more connecting hubs or nipples such as that shown at 8 whereby drain pipes extending from the bath tub, basin or other fittings may be connected with said member. The member 7 is also formed with a laterally extending connecting nipple 9 with which a drain pipe positioned horizontally between the ceiling and floor of the building may be connected.

At one side of the drain pipe connection 8 and above and below the same, the connecting T 7 is formed with the hubs 10, the walls of which are comparatively thick in relation to the side walls of the T member so that these hubs 10 may be internally threaded as indicated at 11 without weakening the wall structure. With these hubs, the threaded ends of the vertically aligned main drain pipe sections 5 are adapted to be connected. Before making these connections, the threads may be coated with a lead paint or other suitable sealing compound or solution, which will insure a water tight joint or connection between each of the drain pape sections and the member 7.

Heretofore, it has been customary to connect the vent pipe sections 6 with each other by interposing a connecting member between the sections and below the ceiling and with

which the ends of the pipe sections are sealed by lead packed joints. These vent pipe sections are positioned in the same plane as the main waste pipe sections 5, and since the pipe sections extended through the space between the floor and ceiling of adjacent rooms, it was necessary to provide in these vent pipe sections a bend or "jumpover" to accommodate the laterally extending drain pipe connection 9 of the connecting T. It is one purpose of my present improvement, to avoid the necessity of using such jumpovers in the vent pipe sections, and to this end, I therefore, cast integrally with the T or connecting member 7 a vertical conduit section 12 in which a substantially semicircular bend 13 is formed extending around one side of the lateral connecting nipple 9 of the T member 7. The walls of this bend 13 in the conduit 12 are integral with one side wall of the member 7 and with the wall of the nipple 9 as clearly shown in Fig. 3 of the drawings. At its upper and lower ends this conduit 12 is formed with the hubs 14 in which the ends of the vent pipe section 6 are adapted to be positioned and sealed by the lead packed joints 15. When the members 7 are arranged in position, these hubs 14 are located substantially at the floor line and the ceiling line respectively, so that access can be readily had thereto and the joints 15 packed without great difficulty. Thus, it will be seen that by means of this single unitary T casting 7 having means for the connection of the vent pipe sections as well as the drain pipe sections therewith, said vent pipe sections may be straight throughout their length, and the connections easily and quickly made without delay incident to the difficulty of fitting the "jumpover" portions of the vent pipe sections in place relative to the T connection between the floor and ceiling lines.

In Fig. 1 of the drawings, I have shown the horizontally extending drain pipes 16 connected with the nipples 9 and vertical vent pipes indicated at 17 connected with these drain pipes 16. The vent pipes 17 at their upper ends are connected as at 18 with the main vent pipe sections 6. If necessary, other drain pipes may be connected with one or both of the vertical vent pipes 17 between their upper and lower ends. Also, in Fig. 1 of the drawings, I have shown an auxiliary vent pipe 19 connected at its lower end with the top of the T members 7 and having its upper end joined to the main vent pipe 6. At the top of the building, the upper vent pipe section 6 extends laterally and is connected with the uppermost drain pipe section 5 as indicated at 20.

In Fig. 5 of the drawings, I have illustrated an alternative form of the invention, wherein instead of providing the member 7 with the conduit section 12 having the bend 13, I may provide the end of the horizontally elongated body portion with the member 7 with an integrally formed downwardly extending conduit section 21 which is adapted to project below the ceiling line, and with which the upper end of a vent pipe section may be connected. The top of this member 7 is provided with the usual hub portions with which the drain and vent pipe sections may be connected by the usual packed joints.

From the foregoing description considered in connection with the accompanying drawings, the construction, manner of use and several advantages of my invention will be clearly and fully understood. It will be apparent that my improved one piece T or unitary connecting member for the drainage and vent pipe sections, will materially facilitate the proper installation of such drainage systems with a minimum of manual labor and thereby appreciably reduce the expense incident to such installations, particularly in connection with buildings of great height. This new T or connecting member, is very simple in structural form, of great strength and durability and can be produced at substantially the same manufacturing cost, as fittings of this kind heretofore in use.

I have illustrated and described several simple and practical embodiments of my present improvements, but it will nevertheless be understood that the device is susceptible to more or less modification in the form, proportion and relative arrangement of the several parts, and I accordingly reserve the privilege of resorting to all such legitimate changes therein as may be fairly embodied within the spirit and scope of the invention as claimed.

I claim:

1. A connecting T for drainage systems consisting of a unitary casting having a horizontally elongated tapering body portion provided at the wider part thereof and at its upper and lower ends with internally threaded nipples for the connection of drain pipes therewith and having an additional drain pipe connecting nipple projecting laterally from the narrower part of said body, and one side wall of the latter part of said tapering body being formed with a curved conduit extending around one side of said lateral nipple, the walls of said conduit and nipple being integrally formed and said conduit at its opposite ends communicating with the interior of said casting, and the ends of said conduit being vertically extended in opposite directions and provided with means for the connection of vertically aligned vent pipe sections therewith.

2. A connecting T for drainage systems consisting of a unitary casting having a horizontally elongated tapering body portion provided at the wider part thereof and at its upper and lower ends with internally threaded nipples for the connection of drain pipes therewith and having an additional drain

pipe connecting nipple projecting laterally from the narrower part of said body, and one side wall of the latter part of said tapering body being formed with a curved conduit extending around one side of said lateral nipple, the walls of said conduit and nipple being integrally formed and said conduit at its opposite ends communicating with the interior of said casting, and the ends of said conduit being vertically extended in opposite directions and provided with hubs having internal seats for vertically aligned vent pipe sections adapted to be fixed in said hubs by packed joints, and the said side wall of the tapering body casting being further provided between said conduit and the first named vertically aligned nipples with an additional transversely projecting nipple for the connection of a discharge pipe therewith.

In testimony that I claim the foregoing as my invention, I have signed my name hereto.

EDWARD KENNEDY.