

No. 860,050.

PATENTED JULY 16, 1907.

W. MOUAT.
SOIL PIPE FITTING.

APPLIOATION FILED SEPT. 17, 1908.

2 SHEETS--SHEET 1.

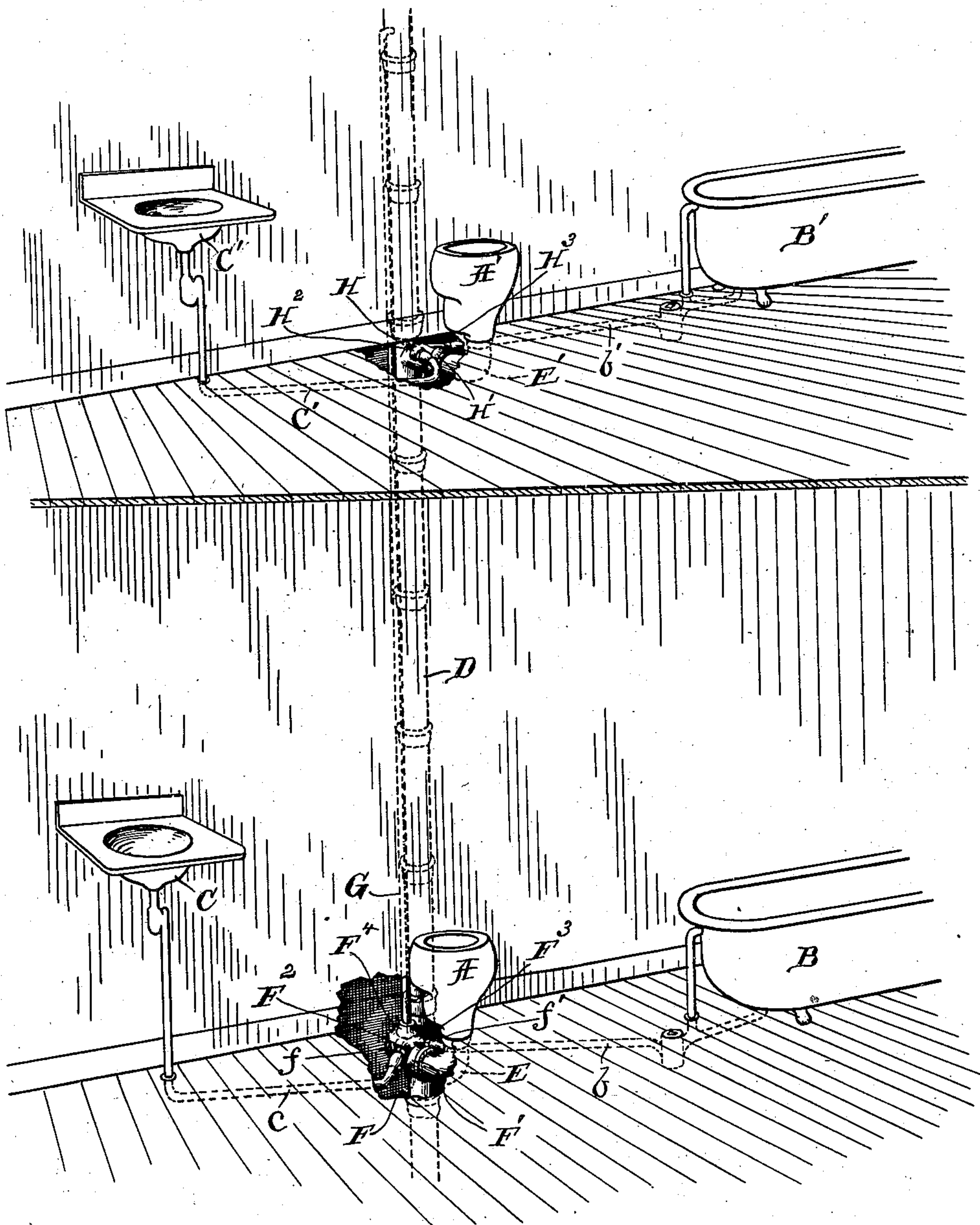


Fig. 1.

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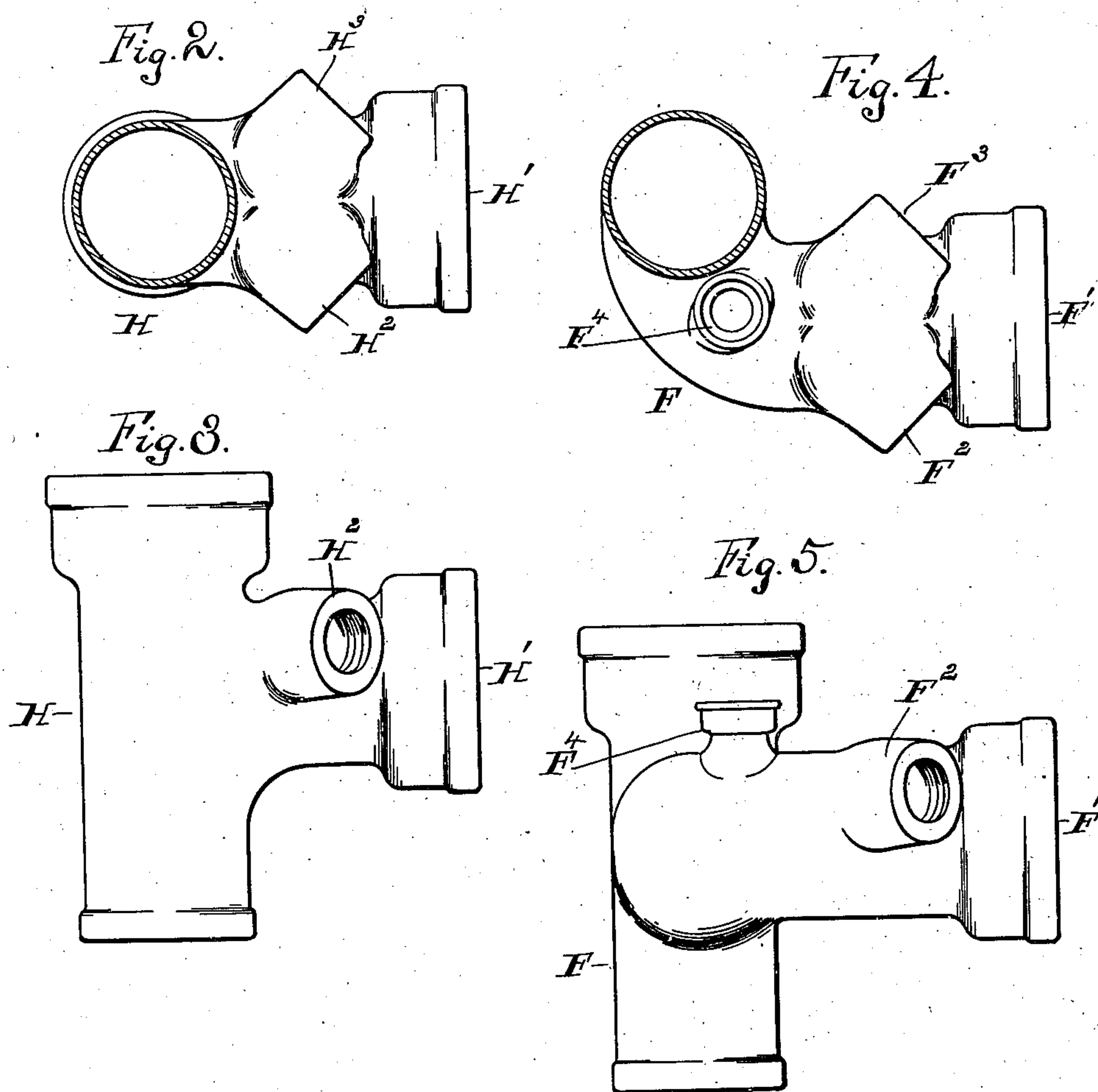
Attorney

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UNITED STATES PATENT OFFICE.

WILLIAM MOUAT, OF DETROIT, MICHIGAN.

SOIL-PIPE FITTING.

No. 860,050.

Specification of Letters Patent.

Patented July 16, 1907.

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To all whom it may concern:

Be it known that I, WILLIAM MOUAT, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Soil-Pipe Fittings; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in soil pipe fittings for use in sanitary plumbing, shown in the accompanying drawings and more particularly set forth in the following specification and claims.

In the drawings: Figure 1 is a perspective view showing bath room interiors of two floors; Fig. 2 is a plan view of the fitting as constructed for use on the upper floor; Fig. 3 is a side elevation of the same; Fig. 4 is a plan view of the fitting employed in bath rooms below the upper floor, and; Fig. 5 is a side elevation of the same.

The object of my invention is to produce a fitting to connect the return bend of the closet with the soil pipe, the fitting providing for connections to be made directly with the washstand and bath-tub by means which will avoid the possibility of siphoning either the traps of the wash-stand or bath-tub when the contents of the closet are discharged in any bath-room connected with the soil pipe.

Another advantage in my improved fitting is that the objection raised by plumbers to connecting the discharge pipes of the wash-stand and bath-tub with the return bend of the closet and which is the fruitful cause of broken joints and leaks due to the settling of the closet or floors is entirely done away with.

Referring to the letters of reference shown in the drawings, A indicates the closet in the lower and A' the closet in the upper bath room; B the lower bath-tub and B' the upper bath-tub; C the lower and C' the upper wash-stand; D is the soil pipe.

E is the return bend of the lower closet and E' the return bend of the upper closet.

F is the fitting connecting the return bend of the lower closet with the soil pipe.

F' is the hub of the fitting to receive the end of the return bend.

F² is an opening in the fitting above the line of discharge from the closet to receive the nipple *f* with which a wipe joint connection is made with the discharge pipe *c* of the wash-stand.

F³ is an opening in the fitting also above the line of discharge from the closet to receive a nipple *f'* with

which a wipe joint connection is made with the discharge pipe *b* of the bath-tub.

F⁴ is the hub formed on top of the fittings to receive the end of the vent pipe *G* leading upward on a line parallel with the soil pipe and connecting therewith at a point usually five feet above the upper closet connection with the soil pipe.

H is the upper fitting provided with a hub H' into which the end of the closet bend enters and H² is the hub formed in the fitting above the line of discharge from the closet with which the pipe *c'* of the wash-stand connects. H³ is the hub formed in the fitting also above the line of the closet discharge with which the pipe *b'* of the bath-tub connects.

Having indicated the several parts, the operation and advantages of my improvement will be readily understood.

The point at which the discharge from the wash-stand and bath-tub enters the fitting being above the line of discharge from the closet, it is obvious that the discharge from the closet will in no wise affect the seal of the traps of either the wash-stand or bath-tub, as neither can be broken through siphonage due to the discharge of the closet.

It will also be seen to provide for cases in which closets are located on several floors and connected with the same soil pipe, I have formed the fitting with a right angle bend in order that a vent pipe may be provided leading from the lower fitting and running upward parallel with the line of the soil pipe and between the walls of the building to a point above the closet on the upper floor, where it is connected with the soil pipe, as shown in Fig. 1. By means of this vent, the discharge from the upper closets will in no wise affect the seal of the closet or other fixtures in the rooms below.

Having thus described my invention, what I claim is:—

1. The combination with the bend of a closet bowl and a soil pipe; of a fitting having an angular extension constructed for connection with the bowl and having a form at its opposite end for connection with the soil pipe, and also having a vent and a pair of separate, independent inlet openings for other fixtures, the vent and inlet openings being arranged above the line of discharge from the bowl, the fitting including its inlets having unrestricted communication with the soil pipe, whereby the discharge through the fitting and the inlets is directly into the soil pipe.

2. The combination with the bend of a closet bowl and a soil pipe; of a fitting constructed at one end for direct connection with the bend of the bowl and at its opposite end directly with the soil pipe, the fitting having unrestricted communication with the bend of the bowl and the soil pipe, and also having separate inlet openings for other fixtures, the inlet openings being arranged above the

line of discharge from the bowl and having unrestricted and independent communication with the fitting and soil pipe, whereby the discharge through the inlets is directly into the soil pipe.

- 5 3. The combination with the bend of a closet bowl and a soil pipe; of a fitting constructed for connection with the bowl and the soil pipe, the fitting having unrestricted communication with the bend of the bowl and the soil pipe and also having separate bath tub and wash stand
10 inlet openings for other fixtures, said inlet openings being

arranged above the line of discharge from the bowl and having unrestricted and independent communication with the fitting and soil pipe, whereby the discharge through the fitting and the inlets is directly into the soil pipe.

In testimony whereof, I sign this specification in the 15 presence of two witnesses.

WILLIAM MOUAT.

Witnesses:

S. E. THOMAS,

HENRY E. VILLEROT.