

No. 774,914.

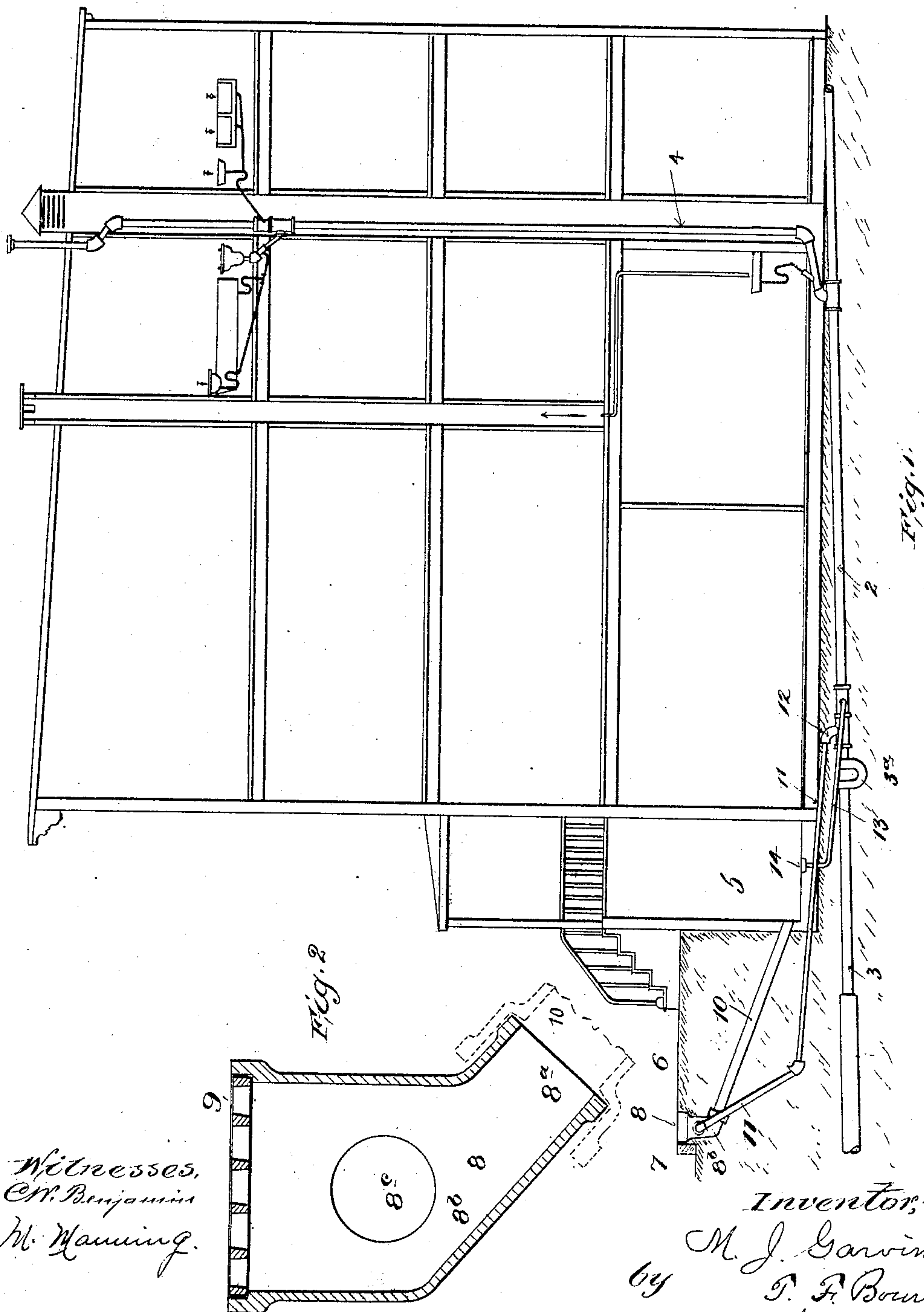
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M. J. GARVIN.

HOUSE DRAIN VENTING SYSTEM.

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NO MODEL.



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UNITED STATES PATENT OFFICE.

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HOUSE-DRAIN-VENTING SYSTEM.

SPECIFICATION forming part of Letters Patent No. 774,914, dated November 15, 1904.

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To all whom it may concern:

Be it known that I, MICHAEL J. GARVIN, a citizen of the United States, and a resident of New York city, borough of the Bronx, State of New York, have invented certain new and useful Improvements in House-Drain-Venting Systems, of which the following is a specification.

My invention relates to an improved system for venting the drain and waste pipes in houses or other buildings; and to this end the invention comprises, in conjunction with a house-drain and a soil or waste pipe, a fresh-air fitting or box located outside of the house and connected at one part by a pipe with the house-drain and also connected by a pipe with the area of the house, said fresh-air fitting or box being open at the top in communication with the atmosphere, whereby fresh air will be admitted through the fitting or box to the house-drain and dirt and other particles that may enter said fitting or box may pass from the same through the second-mentioned pipe into the area for the purpose of keeping the connection between said pipe and the fitting or box from becoming clogged, and whereby, also, air may have circulation from the area through said fitting or box.

Reference is to be had to the accompanying drawings, forming part hereof, wherein—

Figure 1 is a sectional view of a house or building with which my improvements are connected, and Fig. 2 is an enlarged central sectional view of the fresh-air fitting or box.

In the accompanying drawings, in which similar numerals indicate corresponding parts in both views, 1 indicates a house or building, 2 the usual drain, commonly called a "house-drain," which connects with the house-sewer 3, that leads to a main sewer or other receptacle, and 4 indicates the soil or waste pipe connected with the house-drain 2, all of which may be arranged in well-known manner. The usual plumbing and air-vents may be arranged in the house in any well-known manner, as they form no part of my present invention.

5 indicates the area usually located in front of the house, 6 indicating the sidewalk and 7 the curb, and at 8 is indicated my improved

fresh-air fitting or box, which is located in the earth beneath the sidewalk so that its upper surface will be about flush with the top of the sidewalk. The preferred form of the fitting or box 8 is shown more clearly in Fig. 2, wherein its top opening is provided with a grating or the like 9, which may be in the form of a casting removably supported by said fitting, and said fitting or box is prolonged or provided with a hub 8^a at the lower portion, extending at an angle toward the house, and the lower wall 8^b is shown inclined toward the area, whereby dirt and other particles that may pass into the box 8 through the grating 9 will be permitted to slide downwardly through the hub 8^a. The hub 8^a of the fitting or box 8 is connected with a pipe 10, that passes through the earth beneath the sidewalk and opens into the area 5, preferably at the lower part of the latter, so that dirt, &c., may find an outlet from the fitting or box 8 through the pipe 10 into the area. Above the connection of the pipe 10 with the fitting or box 8 a pipe 11 connects with the box, as by means of an opening 8^c, preferably having a hub connected with pipe 11, and the latter, being suitably arranged, is connected with the house-drain 2 by any suitable coupling or joint 12 and at a point inwardly of the trap 3^a. At 13 is shown a pipe connecting the house-drain 2 with a drain opening or fitting 14 in the bottom of the area to conduct water therefrom to the house-drain.

By means of my improvements the drains and pipes in the house will be supplied with fresh air through the pipe 11 from the fitting or box 8, and the communication between the pipe 11 and fitting or box 8 will be maintained unobstructed, because of the free passage for dirt, &c., through said fitting and the pipe 10 into the area 5. Furthermore, it will be seen that water may pass through the fitting or box 8 and pipe 10 into the area, thereby assisting in keeping said fitting and pipe clean and unobstructed, and such water may pass from the area, through pipe 13, into the house-drain 2. It will also be observed that a circulation of air through the pipe 10 and the fitting or box 8 from the area 5 can be maintained.

The advantages of my improvements will be apparent when it is considered that it is essential for various purposes to keep the house-drain and soil or waste pipes supplied with
5 fresh air, the arrangements being such that the point of communication of the pipe 11 with the outside air can be kept from obstruction.

I have shown the pipe 10 as leading to an
10 area 5; but for houses or buildings that do not have areas the pipe 10 can be carried through the front wall to open into the cellar, or pipe 10 can open into any other air space or chamber suitably arranged, and in such case the
15 cellar could be connected with the drain 2 by a pipe arranged similarly to pipe 13.

Having now described my invention, what I claim is—

1. A house-drain-venting system comprising
20 ing a house provided with an area or air-space and a drain communicating with a sewer, a fitting or box located outside of the house, a pipe connecting said fitting or box with the house-drain, and a pipe connecting said fitting
25 or box with the area or air-space, substantially as described.

2. A house-drain-venting system comprising a house provided with an area or air-space and a drain communicating with a sewer, a fitting or box located outside of the house, a
30 pipe connecting the lower part of said fitting or box with the house-drain, and a pipe connecting said fitting or box with the area or air-space, said fitting or box being provided with a lower wall that inclines downwardly
35 toward the house, substantially as described.

3. A house-drain-venting system comprising a house provided with an area or air-space and a drain communicating with a sewer, a fitting or box located outside of the house and
40 having an opening leading downwardly at its lower part, a pipe connecting said opening with the area or air-space, said fitting or box also having an opening in its side above the first-mentioned opening, a pipe connecting the
45 second - mentioned opening with the house-drain, and a grating over the top opening of said fitting or box, substantially as described.

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