

No. 757,130.

PATENTED APR. 12, 1904.

J. J. LAWLER.
FITTING.

APPLICATION FILED OCT. 6, 1903.

NO MODEL.

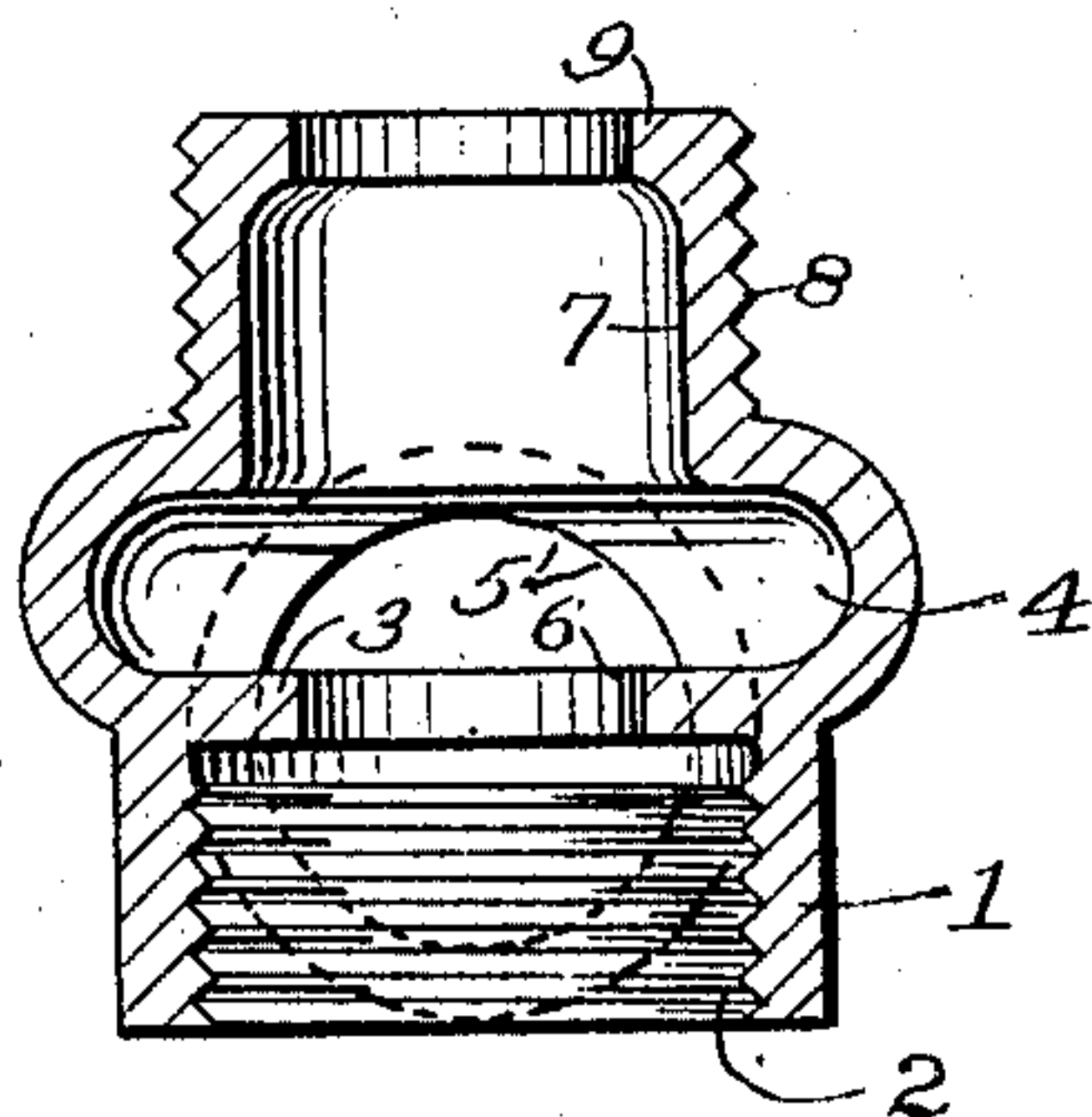


Fig. 1.

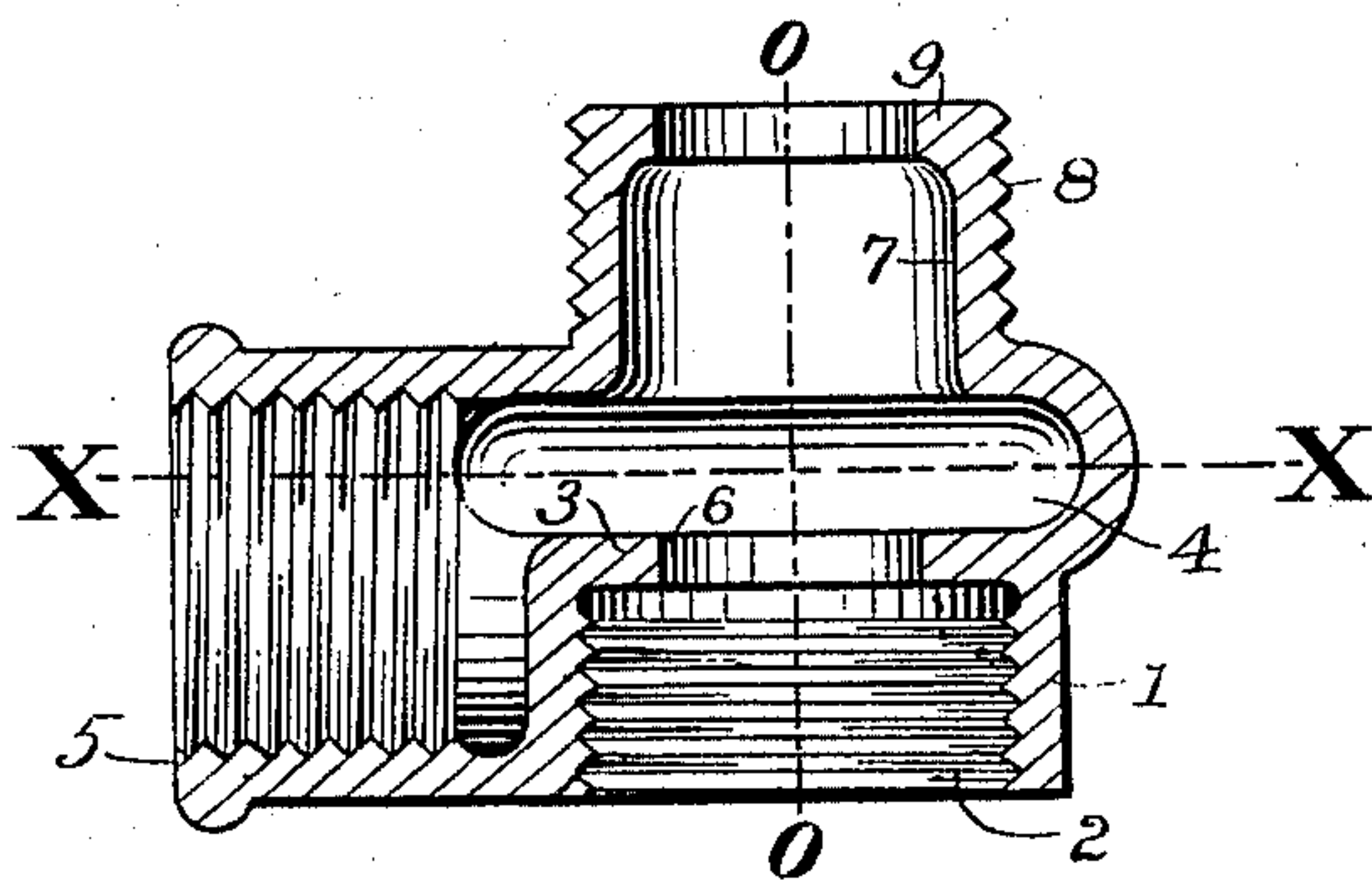


Fig. 2.

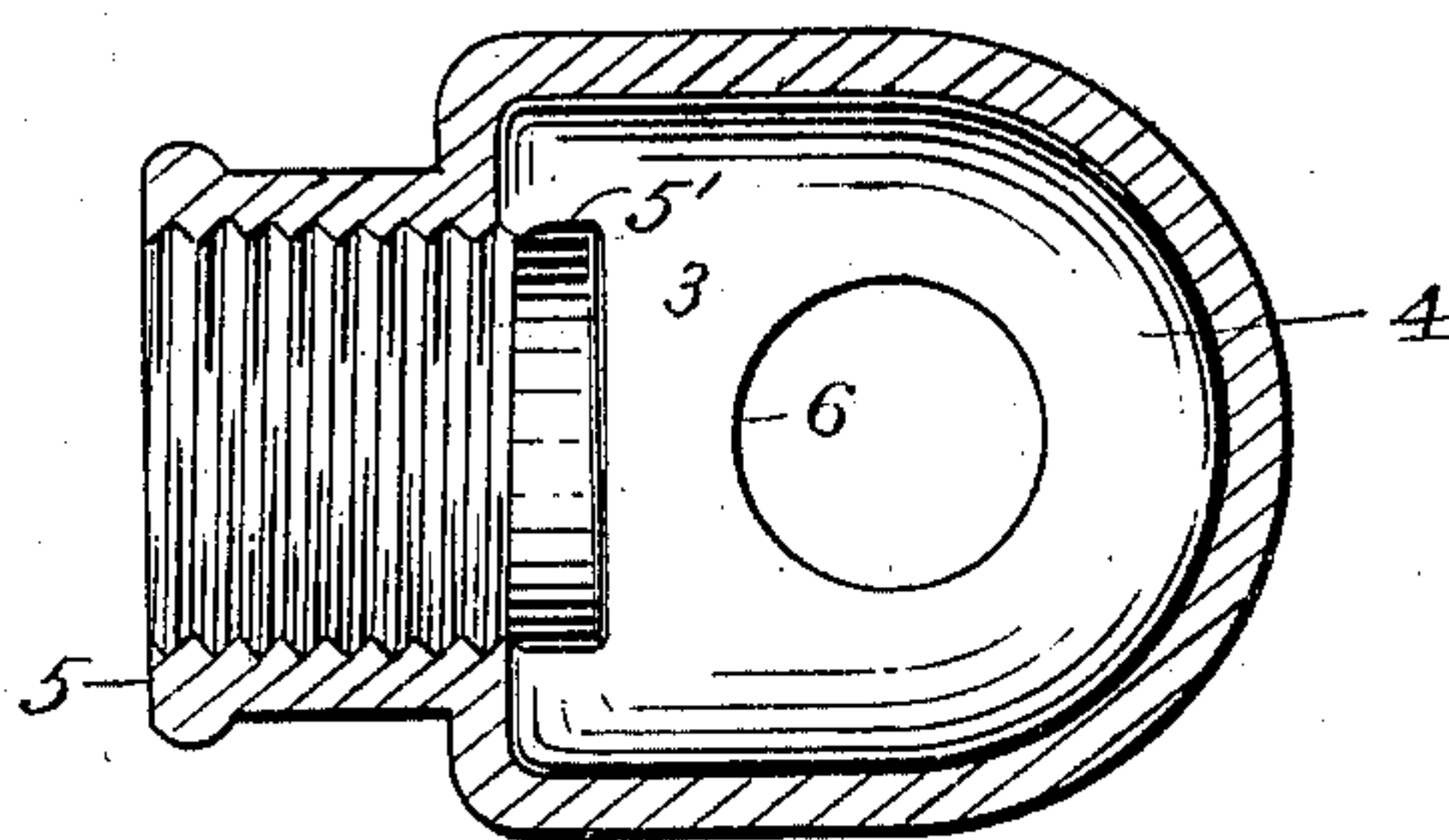


Fig. 3.

WITNESSES

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JAMES J. LAWLER, OF MOUNT VERNON, NEW YORK.

FITTING.

SPECIFICATION forming part of Letters Patent No. 757,130, dated April 12, 1904.

Application filed October 6, 1903. Serial No. 175,941. (No model.)

To all whom it may concern:

Be it known that I, JAMES J. LAWLER, a citizen of the United States, and a resident of the city of Mount Vernon, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Fittings, of which the following is a specification.

This invention is an improvement on the T-fitting shown and described in Letters Patent No. 738,208, issued to me and dated September 8, 1903, the object of the present invention being to reduce the length of the said fitting to a minimum, so that the side outlet will be on a line with the lower edge of the fitting, as fully hereinafter described. I accomplish this by "compressing" the fitting, so to speak, as is fully shown in the accompanying drawings, in which—

Figure 1 is a central sectional view through the "run" on line O O of the fitting in Fig. 2, the view being toward the side opening. Fig. 2 is a central cross-sectional view, and Fig. 3 is a sectional plan view on line X X of Fig. 2.

Similar reference-numbers refer to similar parts in the several views.

The fitting is made of cast metal, and to lighten its weight it is cored out in the usual manner adopted by foundries.

1 is the inlet end, provided with a female thread 2. Above this thread is an annular shoulder 3, finished on its lower face, so that if a washer is used (not shown) it will have an even bearing-surface to insure a tight joint.

4 is a D-shaped body having a greater diameter than the periphery of the inlet end.

5 is a side outlet which, instead of being placed midway of the fitting, as is usually done, is carried down so that the lowest point of the circle composing the side outlet is about on a line with the lower edge of the body proper, as shown in Fig. 2 and by dotted line in Fig. 1.

The body 4 is laterally elongated, so that its area at the point 5', where it empties into the side outlet, is about equal to the area of hole 6 through the shoulder 3. Above the chamber is a male extension 7, provided with an external thread 8. This extension is contracted at its upper or outlet end to form an annular inner flange 9, which is finished on

its face, so that when a washer is used at that point a tight joint can be made.

In using my improved fitting—on a kitchen-boiler, for instance—the connection with a lead or wrought-metal pipe can be easily made by unscrewing the usual coupling from the spud of the boiler, then interposing my fitting by screwing it down on the spud. The coupling on the pipe is then screwed down on the male extension, a washer being used below the shoulder 3 and also above the flange 9 to insure tight joints at those two points. The side pipe can then be screwed into the side outlet 5.

On account of setting down the side outlet as described the length of the fitting is greatly reduced, it being equal only to the length of the male and female ends added to the length of the compressed body, and when used on a kitchen or range boiler the connecting-pipes are easily sprung enough to permit the fitting to be interposed.

My improved fitting is also useful in gas and other connections for the reason that the side outlet being set down on a line with the female inlet end, where a nipple extends only a short distance from the wall, as is usual in the case of brackets, by screwing my fitting on said nipple the bracket can be screwed in the male end and a supply can be taken off through the side outlet without requiring an offset bend in the pipe, which is usually comparatively expensive. The fitting can also be used for running pipe on the ceiling by inserting it between a chandelier and the "drop" or piping of the house, no offset being required.

Such being a full description of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A fitting provided with a female end, a laterally-elongated body above said end, a male end above said body, and an internally-threaded side outlet so positioned that the peripheral line at the lowest point will be about on a line with the lower edge of said inlet end, substantially as described.

2. A fitting provided with a female end internally threaded, an internal annular shoulder above said thread, a laterally-elongated

body above said annular shoulder, a male nipple externally threaded above said body, said nipple having an inner annular flange, in combination with a side outlet, internally threaded, 5 said outlet being positioned so that its center is on a line with said internal annular shoulder, substantially as shown and described.

Signed at New York, in the county of New York and State of New York, this 26th day of September, A. D. 1903.

JAMES J. LAWLER.

Witnesses:

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WILLIAM A. HOSCHKE.