

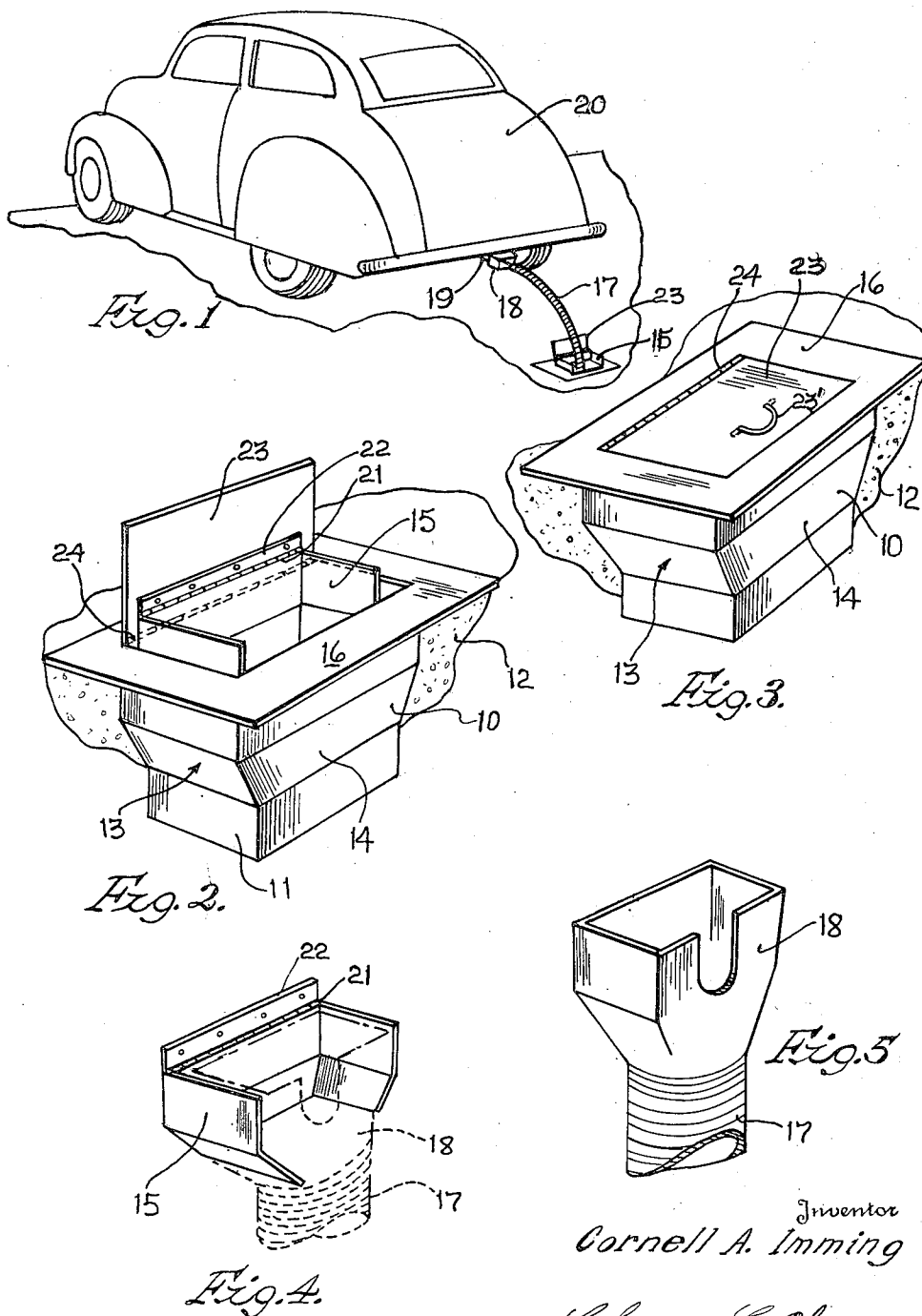
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FLOOR RECEPTACLE FOR USE WITH A MONOXIDE GAS EXHAUST SYSTEM

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FLOOR RECEPTACLE FOR USE WITH A MONOXIDE GAS EXHAUST SYSTEM

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This invention relates to a novel and improved floor receptacle for use with a monoxide gas exhaust system. As such, the invention has as its principal object the provision for automatically closing the door of the receptacle upon replacement of an adaptor, employed in the system, into the receptacle.

Floor receptacles of the class with which this invention is concerned are embedded in the floor (usually concrete) with the door substantially flush with the floor surface. In such receptacle the exhaust pipe adaptor is housed when not in use and when in use is connected to the exhaust pipe of an automobile.

Upon withdrawal of the adaptor from the receptacle, the attendant opens the door of the latter. While the adaptor is in use, such door remains in a vertical plane extending above the floor. Should the attendant neglect or fail to close the door upon replacement of the adaptor in the receptacle, such door might be broken off by contact with the wheels of a moving car or one might accidentally stumble over the door and be injured.

It is therefore the object, among others, of this invention to provide a door for the receptacle which will be automatically closed each time the attendant replaces the adaptor in the receptacle.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings showing the preferred form of construction, and in which:

Fig. 1 is a perspective view of a monoxide gas system, attached to an exhaust pipe of a car, and embodying my improved and novel floor receptacle;

Fig. 2 is a perspective view of the floor receptacle embodied in my invention showing the door thereof in open position;

Fig. 3 is a perspective view similar to that shown in Fig. 2 but showing the door of the receptacle in closed position;

Fig. 4 is a perspective view of a saddle embodied in the invention, showing in dotted outline an adaptor mounted therein; and

Fig. 5 is a perspective view of an adaptor used in an exhaust system of the character herein referred to.

This invention may take several different forms, however, I prefer to accomplish the objects of the same by the form of construction shown in the accompanying drawings.

In this connection, as seen in Figs. 1 to 3, I provide a receptacle 10, which includes a body portion 11 normally embedded in the floor 12. Such body portion 11 has a medial portion 13 provided by inwardly and downwardly tapered walls 14 to limit the downward movement of a saddle 15 hereinafter more fully referred to.

Surrounding the upper edge portion of the body portion 10 is a laterally extending flange 16 generally flush with the surface of the floor 12.

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To the lower restricted portion 16 of the body is attached in any suitable manner a duct (not shown) which serves as a guide for the movement of a flexible exhaust conduit 17 to a position within the duct. This conduit 17 has attached thereto an adaptor 18 which sits in the saddle 15, as shown in dotted lines, when such adaptor is not in use. When in use, the adaptor is fitted to the end 19 of the exhaust pipe of an automobile 20, as shown in Fig. 1. When the adaptor is fitted to such exhaust pipe, the conduit 17 is partially withdrawn from the duct which is attached to the receptacle 10.

The saddle 15 (as does the adaptor 18) has lower portions conforming in shape to each other and to the wall portion 14 for nesting relation.

To one edge of the saddle 15 by means of a piano hinge 21 is hinged a plate 22. This plate 22 is fixed by welding or the like to the inside face of a door 23. This door 23, by means of a piano hinge 24, is hinged to an adjacent edge of the receptacle 10.

The arrangement is such that when the adaptor 18 is not in use the flexible conduit 17 is projected in the duct attached to the receptacle to a position where such adaptor 18 will sit upon the saddle (see Fig. 4) and have its weight disposed thereon. In such position of the adaptor the door will be closed.

To use the adaptor, the door 23 by means of a suitable handle 23', is opened to expose the adaptor 18. The opening of such door will elevate the saddle 15 and when the adaptor's weight is removed therefrom, the door will remain in open position. The conduit 17 is now extended from the receptacle and the adaptor fitted to the exhaust pipe 19 of the automobile 20 as shown in Fig. 1.

When the adaptor is replaced upon the saddle 15 the weight thereof will lower the same into the receptacle. As such saddle is lowered into the receptacle 10 under the weight of the adaptor, the door 23 will be closed by the saddle. In such closed position, as shown in Fig. 3, the door will be out of the way of moving cars and in a position where it cannot be tripped over by an attendant. It is thus clear that the closing of the door is automatic, it being closed by the lowering of the saddle in the receptacle 10 under the weight of the adaptor 18.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent is:

1. In combination, a floor receptacle for an exhaust pipe adaptor having a body portion adapted to be embedded in a floor and having a flange at the upper edge of said body disposed substantially flush with the top surface of said floor, said body having an opening in its top wall, a door hinged to said body at one side of said opening for normally closing the same, said body having a medial portion tapered inwardly and downwardly from said opening for restricting the size of said body portion adapted to be embedded in said floor, a saddle of a size less than the upper end of said opening and movable therethrough, a hinge connection between said saddle and said door at a point above the hinge connection between said door and said body, said saddle having its side walls shaped to conform to the configuration of said medial portion of said body for confronting abutment therewith when said saddle is moved through said opening and into said body portion.
2. In combination, a floor receptacle for an exhaust pipe

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adaptor having a body portion adapted to be embedded in a floor and having a flange at the upper edge of the body disposed substantially flush with the top surface of the floor, said body having an opening in its top wall, a door for said opening, said body having a medial portion tapered inwardly and downwardly from said opening for restricting the size of said body portion adapted to be embedded in said floor, a saddle movably positioned within said body and having a portion thereof tapered inwardly and downwardly for confronting abutment with said medial portion of said body, a hinge connection between said one edge of said door and an adjacent edge of said body, and a hinge connection between said saddle

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and said door at a point above the hinge connection between said door and said body so as to move said saddle from abutting relation with said medial portion of said body when said door is opened, said saddle adapted to receive an exhaust pipe adaptor and by the weight thereof pivot said door above its hinge connection to said body to a closed position flush with said floor.

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