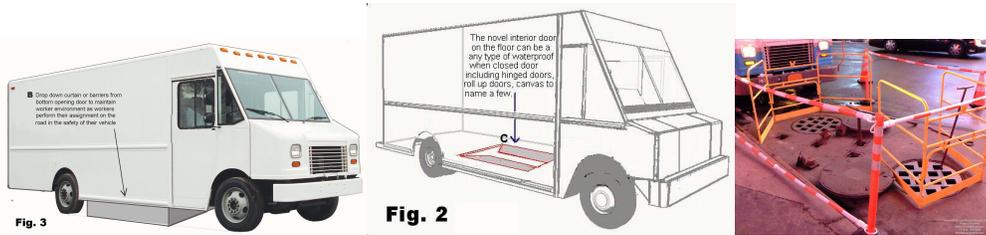


# Bottom Door Utility Van

Safety - Comfort - Efficiency  
Patent pending.

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The Bottom Door Utility Truck allows workers access to manholes from inside of the utility van while maintaining a comfortable, safe work environment.

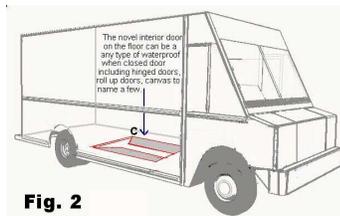
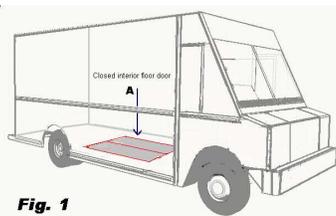
Presently when public and private utility workers are working on wires, and pipes that are buried under roads, sidewalks, parking lots or open fields, it is common practice for the utility workers to set up safety cones around the work site and divert traffic around the work site. This procedure requires one or more workers, in the capacity of flagmen, to assist in diverting traffic around the work site to alert vehicles or pedestrians.

Opening a road in the heat of summer or the cold of winter is an unpleasant job. Snow and summer heat slows the work speed as well as poses a health issue for the workers.

In operation, the Bottom Door Utility Worker Safety Vehicle will drive up to the work area and position the door on the vehicle, on top of the area that needs to be serviced. For this example, we shall say that work must be conducted inside of a manhole containing electrical cables. To enhance the drivers ability to position the vehicle, exactly over the work area, a television camera can be installed on the bottom of the vehicle and a television monitor, viewing what the camera sees, can be in mounted in the dashboard of the vehicle, so that the driver knows exactly where the vehicle is and the best location to stop the vehicle. Upon positioning the opening on top of the manhole, the electric powered bottom door is opened and at the same time, a curtain or element proof barrier surrounding the perimeter of the bottom door is lowered and touches the street. The perimeter barrier, which has been lowered and it touching the street, protects the workers from outside dust, heat or cold, since the environment within the vehicle is now extended to the work area. To enhance the workers ability to repair the road, the bottom exterior of the vehicle can be equipped with water proof flood lights, electrical outlets and a crane or hoist.

The workers have clear access to the manhole or work site, while at the same time, they are protected from other vehicles, driving on the road, since the workers are within their heavy vehicle. Pedestrians will not accidentally fall into the dug hole but rather go around the parked Bottom Door Utility Worker Safety Vehicle, while the workers are doing the necessary repairs.

The Bottom Door Utility Worker Safety Vehicle is a must have vehicle for all utility companies and road repair companies. We are currently licensing the patent technology. Please call for further information.



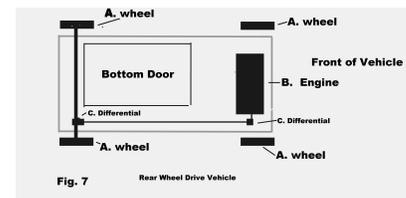
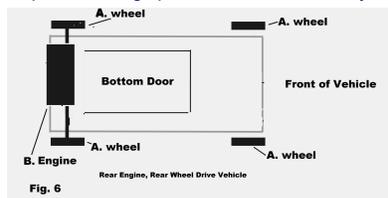
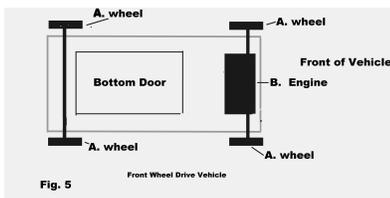
The bottom opening can be any typ of door including waterproof cloth covering, a hinged or unhinged door or multiple doors or roll up door and similar.

Vehicle with bottom door opening allows workers to access the street.. Provides safety, heating, AC and protection from snow and rain in order to increase worker efficiency.

A drop down barrier can be sold as an option so that the area between the vehicles floor and the street are sealed off from the elements, such as rain, cold, heat and snow.

## Possible engine, transmission and drive shaft configurations

It is possible that an existing production line can be modified. Further, vehicles can be fitted with extras such as small interior hoists or cranes to assist the utility worker. This invention represent a huge potential market with utility companies.



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