

Invention Title: **AI Enabled Telescopic Rain Shield for Entrance and Exit Doors of Passenger Bus**

Abstract: AI Enabled Telescopic Rain Shield for Entrance and Exit Doors of Passenger Bus Features (herein after Claim 1 and Figures 1 to 11), to protect the bus passengers getting wet through the uncovered existing gap between the bus and the bus shelter during rain downpour. Artificial Intelligence systems have been utilized in Claim1 to detect raining and then to start the automatic operation of Claim 1 at the Bus Stops, to detect the human movement in front of the Entrance and Exit Doors of Passenger Bus at the Bus Stops, to measure the uncovered gap between the bus and the bus shelter, to measure the elevation of Bus Shelter Roof, to calculate the length for telescopic slides to be deployed prior to passenger boarding and to retract after passengers alighting at the bus stop automatically.

Figure 1