

## AUTOMOBILE WINDSHIELD WIPING DEVICE

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### Abstract

The proposed invention relates to an automobile windshield wiping device for eliminating dust particulates away from the windshield surface, comprising a sprinkler components for spraying liquid droplets on the windshield surface, a heat expelling component for drying the windshield surface by removing liquid droplets present on the windshield surface, and a slider wiper rail component installed in the device for moving the slider wiper over the windshield surface to make surface free from dust particles.

**Keywords:** sprinkler, dust particles, liquid droplets, wiping, slider.

### 1. Introduction

Wipers are significant accessories installed on the surface of the windshield to remove dust, snow and liquid droplets from the car's windshield surface to guarantee excellent visibility for the driver. The wipers are divided into mechanical, vacuum, pneumatic, hydraulic and electrical types according to their driving method. Conventionally, most of the automobiles windshield wiper systems were made up of two windshield wiper blades supported by two arms. These arms rotate around their own shafts positioned under automobile hood or between the windshield surface of the automobile and the hood. The aforementioned blades are located on the other end of the arms to remove unwanted dirt or dust particles and liquid droplets from the car's windshield surface to and fro movement to clean the rectangular surface of the car's windshield surface.



## 2. Working

The proposed invention relates to an automobile windshield wiping device used for cleaning the windshield surface of automobile by removing dirt particles and liquid droplets present on the windshield surface of the automobile. The slider wiper component is rotated at an angle of about 90 degree on the windshield surface so as to remove tiny particles of dust and small liquid droplets from the windshield surface of the automobile. The two liquid sprinkler components are installed in the device for sprinkling liquid droplets on the windshield surface of the automobile. The liquid sprinkler to spray liquid droplets on the entire surface of the windshield of the automobile. The heat expelling component for evaporating liquid droplets from the windshield surface of the automobile, so as to obtain the dried windshield surface of the automobile.

## 3. Result and conclusion

The device is designed for extracting unwanted tiny dust particles and liquid droplets present on windshield surface by moving the slider wiper component on the windshield surface of automobiles, so as to increases the visibility for driver of the

automobile to ensure safety of driver as well as passengers while travelling.

### **Reference**