

## **Abstract:**

One of the basic human needs is the need for health and security. Efforts to maintain and promote health are among the most important goals of governments and nations. Since the discovery of human life, many researches and activities have been done in this direction. From pharmaceutical discoveries to new health technologies, it has been very effective in saving human lives. "Prevention is better than cours." Therefore, efforts to expand the health sciences have continued, and today a great deal of research is being done to prevent physical, chemical, microbial, psychological, and other injuries. In late **2019**, a new coronavirus was identified as causing a group of pneumonia cases in Wuhan City, Hubei Province, China. In less than three months, the disease has spread worldwide, causing death and the loss of the world's medical and health resources. With the increase in the incidence and mortality of viral infections of this contagious disease, new research was started to control and prevent its spread. Due to the unknown symptoms of the disease, side effects and drug treatment, the importance of preventing its spread became more apparent. The causative agent was identified and confirmed as coronavirus. Health scientists have recommended ways to prevent the transmission of viral infections to people around the world. Disinfection of surfaces and prevention of contact of human organs with contaminated surfaces were proposed as strategies to prevent transmission of coronavirus. By examining human behaviors in the environment and society, human hands were identified as the most effective members in transmitting infectious diseases from the surface. Various recommendations for cutting off hand contact with contaminated surfaces have been made by health researchers around the world. One of the most important levels that could transmit the disease is the door handles of public and office rooms. This design is proposed to cut the contact of the hand with the handle and by making and installing the pedal door, by transferring the pressure force through the foot to the internal parts of the door lock, the door will be opened and closed. By installing this door in office rooms, in addition to saving disinfectants and cutting off contact with infected hands and preventing the transmission of various infections, it will have other uses for the comfort of people with disabilities, children, etc.

**Key Words:** pedal door, prevent, infectious diseases