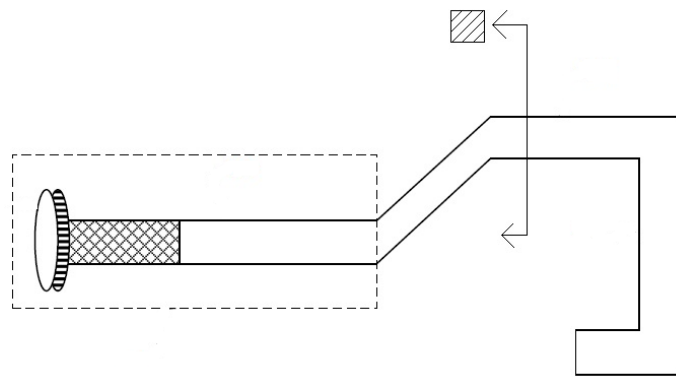


## Multi-Purpose Non-Touch Device for Avoiding a Physical Contact of a User with a Surface

### 1. Technology:

University researchers at the robotics Lab have patented a multifunctional non-touch gadget to prevent a user from making physical contact with a surface. A copper square wire is taken whose one end of the is flat, while the other is end is given a hook type look. The flat part is designed to work similarly to a fingertip. There is a horizontal section and a flat round face in the flat area. The circular, flat front is arranged to give a larger area that can be touched. The horizontal part is designed to give the user enough room between their fingers to hold the multifunctional non-touch gadget. In-order-to open the door handle or similar items, the hook piece is designed to grip one or more devices through the protruding part attached to it.



**Fig. 1** Line diagram of the product

### 2. Problem Addressed:

Viral diseases are extremely widespread infections caused by viruses, a type of microorganism. There are many types of viruses that cause a wide variety of viral diseases. The most common type of viral disease is the common cold, cough, sneezing, and fever, which is caused by a viral infection of the upper respiratory tract (nose and throat). The prime cause of the spreading of viral diseases (e.g. COVID-19 infections) is physical contact with infected people, contact with contaminated surfaces, food, and water. Thus, it's highly essential to avoid touching the contaminated surfaces in public places. The device is designed in such a way that it can act as a barrier between humans and the virus that may exist on surfaces of the lift keys, door handles, ATMs touch panels, Tap openers, and many others. This simple device can minimize the spread of infections through the fingers or palm touch.

### 2. Industrial Applications:

Product/device to passively open or touch the objects with end user applications such as:

- Lift keys, door handles,
- ATM,
- Tap openers and many others

**4. Patent Application Number:** 202141015717