

# **How Privacy Door Knobs Keeps You Safe**

Jayvin Hernandez Reyes

ENGL 21007: Writing for Engineers

Elisabeth von Uhl

4/5/2023

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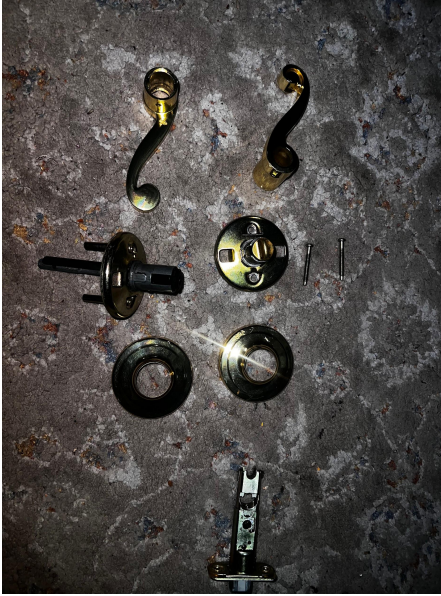
## **How Privacy Door Knobs Keeps You Safe**

When it comes to household essentials, door knobs are one of the most essential yet overlooked items that we use every day. However, did you know that the concept of a door knob is actually a relatively recent invention? Before the 18th century, doors were often secured by latches or bolts that required a hand-operated key to open. It wasn't until the mid-18th century that the first door knob was invented by an American inventor named Osbourn Dorsey. His innovative design consisted of a simple metal knob that could be turned to operate a latch mechanism, making it much easier to open and close doors. Dorsey's invention quickly gained popularity and eventually became a staple of home design. However, it wasn't until the 19th century that door knobs became more ornate and decorative, with many manufacturers creating intricate designs and finishes to suit a variety of interior styles. (WHO INVENTED THE DOOR KNOB?, 2020) Today, there are countless types of door knobs available, including the privacy door knob, which is now a common feature in homes, offices, and public spaces. Let's dive into the technical description of the Naples Satin Door Knob and explore its components, features, and functions in detail.

### **Components of the Technological Item**

#### **Handle**

The handle is the part of the door knob that you grasp and turn to operate the latch mechanism. The Naples Satin Door Knob is made out of metal. This item is displayed at the top of Figure 1 (see figure 1).



**Figure 1** ( Jayvin, H. 2023) *Note.* These are all the

components in a Naples Satin Door Knob

### **Spindle**

The spindle is a long, thin rod that runs through the center of the knob and connects the two handles or knobs on either side of the door. It rotates when you turn the knob and operates the latch mechanism. This item is displayed below the left handle in Figure 1(see figure 1).

### **Latch mechanism**

The latch mechanism is the part of the door knob that keeps the door closed and allows you to lock it. It consists of a spring-loaded bolt that extends from the edge of the door into a hole in the door frame, called the strike plate, when the door is closed. This is best displayed in Figure 2(See figure 2).

### **Strike plate**

The strike plate is a metal plate that is attached to the door frame and has a hole or indentation that the latch bolt fits into when the door is closed. Can be seen at the bottom of figure 1 (See figure 1).

## Locking mechanism

Naples satin door knob also has a locking mechanism that allows you to lock the door from the inside. This is a switch located on the inside of the knob and can be seen in figure 1 below the right handle (See figure 1).



**Figure 2**( Jayvin, H. 2023) *Note.* This is a closer look at the latch mechanism

## Backplates

Backplates are decorative plates that cover the mounting screws and protect the door's surface from damage. In the Naples Satin Door Knob, they are round and can be located below the spindle and the lock mechanism (see figure 1).

## Screws

These are the fasteners that hold the door knob in place on the door. They are typically located on the inside of the door and are concealed by backplates.

## Technical Overview

### Physical description

The height and diameter of the door knob are approximately 2.5 inches. The length is approximately 6.55 inches, and the width is approximately 5.55 inches (see figures 3, 4, and 5).

The privacy door knob is made of brass and weighs about 1.5 pounds. The texture is metallic, and the color is a gold color, which is iconic of brass. (*Defiant naples polished brass bed/bath privacy door lever lye701b*, 2023)



**Figure 3**( Jayvin, H. 2023) *Note*. This is a measurement of the diameter of the hole needed to install the door knob.



**Figure 4**( Jayvin, H. 2023) *Note.* This is a measurement of the length of the door knob

### **Mechanism**

Inside the door knob, there is a spindle, which is a long, thin rod that runs through the center of the knob. On either side of the knob, there are handles that you can turn to operate the latch mechanism. The latch mechanism itself consists of a small, spring-loaded bolt that extends from the edge of the door into a hole in the door frame, called the strike plate, when the door is closed. When you turn the knob, the spindle rotates, and this movement is transferred to the latch bolt via a series of interconnected mechanisms. The latch bolt is then retracted from the strike plate, allowing the door to open. The Naples satin door knob has a locking mechanism, which is a switch located on the inside of the knob. When you turn this switch, it engages a metal bar that prevents the latch bolt from retracting, effectively locking the door. Overall, a door knob is a relatively simple but effective mechanical device that allows us to secure our homes and buildings while also providing easy access when we need it. (Owen. J, 2016.)



**Figure 5**( Jayvin, H. 2023) *Note.* This is a measurement of the width of the door knob

### **Functionality and Usage of the Technological Item**

Privacy door knobs, such as the Naples satin door knob, are a type of door knob that is commonly used in residential homes and commercial buildings. The main function of a privacy door knob is to provide privacy and security for a room or space that does not require a lockable entry. Privacy door knobs are typically used on interior doors, such as bathroom and bedroom doors. They are designed to prevent unauthorized access to the room by using a locking mechanism that can be activated from inside the room. This locking mechanism is a switch-turn on the interior side of the door that can be turned to lock or unlock the door. The exterior side of a privacy door knob usually has a simple latch mechanism that can be easily turned to open the door from the outside in case of an emergency. However, the door cannot be unlocked from the exterior side, which makes it more secure than a standard non-locking door knob. One of the main advantages of a privacy door knob is that it provides a degree of privacy and security without requiring the use of a key. This makes the Naples satin door knob a convenient and user-friendly option for homes and commercial buildings where people need to be able to access



a room without having to carry a key. Overall, the privacy door knob is a useful and practical tool for securing interior doors in homes and commercial buildings.

### **Conclusion**

In conclusion, privacy door knobs, such as the Naples satin door knob, are a valuable and important tool for securing interior doors in both residential and commercial settings. Privacy door knobs have flaws that could compromise the safety and privacy of occupants. These include vulnerability to picking and brute-force attacks, as well as malfunctioning due to continuous use, which may cause the locking mechanism to not work properly. This can make the privacy door knob problematic in emergency situations. More research is needed to develop better solutions, such as integrating smart technology or creating a more resilient lock mechanism. It is important to be aware of these weaknesses and work towards improving the security of privacy door knobs.

## References

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