**TOPIC: IF I COULD INVENT SOMETHING NEW**

According to Albert Einstein “A person who has never made a mistake has never made anything new”. Even the smallest observations can often serve as a catalyst for creativity, transforming daily obstacles into opportunities for advancement. One such option can be seen in public restrooms, where unflushed toilets continue to be an issue despite ongoing campaigns to raise awareness of better hygiene practices. An intelligent toilet door sensor that locks the door until it hears a flush is what I would design if I could create something new. This innovative idea encourages good hygiene and raises user’s accountability.

The intelligent toilet door sensor is designed to function seamlessly with both public and private restrooms' existing infrastructure. A sensor that is placed inside the toilet bowl and can distinguish the unique sound of flushing is part of the system. The door cannot be unlocked until the flush is finished thanks to this sensor, which is affixed to the door lock mechanism. This straightforward yet effective technique makes each user responsible for maintaining standards of cleanliness. In public restrooms, unflushed toilets are a common issue that led to unclean environments and uncomfortable experiences for other patrons. This makes the restroom experience better overall, boosts hygiene, and slows the transmission of germs.

Additionally, this invention encourages users to take responsibility for their actions. Those who are aware that the door will not unlock until the toilet has been flushed are more inclined to practice good hygiene. Beyond the restroom, this behavioural shift might motivate people to practice more cleanliness in other spheres of their lives. This invention only requires a modest amount of technology. There are many readily accessible sound sensors that are capable of picking up on certain audio frequencies, including those produced by flushing the toilet. Consistent performance can be achieved by adjusting these sensors to differentiate between flush sounds and other background noises. Additionally beneficial to water conservation is the intelligent toilet door sensor. It can be set up to cooperate with dual-flush systems and encourage customers to select the right flush volume according to their requirements, all the while encouraging flushing. This helps to maintain environmental sustainability by encouraging economical water use in addition to ensuring cleanliness.

Opponents may contend that in the event of a sensor malfunction or other technical problems, the system could cause users' inconvenience. Nonetheless, these worries can be reduced with sound design and routine upkeep. In order to protect user safety and convenience in the event of a sensor failure, emergency override mechanisms can also be included.

An intelligent toilet door sensor is a practical and innovative solution to a prevalent hygiene concern, such as the growing occurrence of cholera. This invention promotes responsibility, cleanliness, and environmental sustainability by ensuring that restroom doors remain closed until the toilet is flushed. Simple yet effective, this technology has the potential to revolutionize personal hygiene and set new standards for public and private restrooms. In a world where small changes can have a tremendous impact, the intelligent toilet door sensor is an example of how innovative problem-solving can overcome typical difficulties.

**TAIWO OLUWAFUNMIBI**

**TELNET INTERNATIONAL SCHOOLS, AKURE, ONDO STATE.**

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