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Class- JSS 2

Essay Topic- If I could Invent Something New, What Would It Be?

If I could invent something new, it would be a device I would name 'food microbe detection and elimination device'- FMDEV. The device would be a handheld portable scanner that detects and destroys microorganisms in food and drinks, including water. I would like to invent this device because of my great passion for food safety, and the prevention of deaths in humans and animals. According to the World Health Organization, 600 million cases of food-borne diseases and 420,000 deaths are recorded yearly. Most of these deaths occur in developing countries like Nigeria. Examples of such diseases are cholera and typhoid fever.

Some weeks ago, cholera outbreak was reported in Nigeria and has led to the death of many. The news further spurred my interest in inventing this device. The food microbe detection and elimination device will help in recognizing the presence of microorganisms and destroying them thereby making the food and drink safe to be consumed. The device will be designed for food and drinks for both humans and animals. It would operate with a rechargeable battery which would be charged by both electricity and solar energy in order to allow people with no or limited access to electricity to use the device without hitch. The device will have a 'on and off' button and other buttons with commands to achieve each of its functions. It will also have an inbuilt microscopic scanner connected to a screen, on which it will display the microbes detected. Once it is switched on, it will take a few seconds to boot, during which it will display 'booting' on the screen. It will display 'proceed' once it is done booting. The 'scan and display' button will then be pressed to activate the inbuilt scanner to identify any microbe in the food or drink. When scanning is over, and microbes are detected, 'Positive' as well as the picture and name of the microbes will be displayed on the screen with a red bar and an alarm sound. If no microbe is present, it will display 'Negative' with a green bar and no sound. The 'details' button can be used to display other details of the microorganisms detected for example, the level of contamination. The 'eliminate' button can be pressed to kill the microorganisms present while the 'print' button will be used to print out the result, if necessary.

This device would be made with affordable and easily accessible materials so it could be affordable. It would be very useful for individuals, researchers, medical and veterinary doctors and other scientists. It would also be a useful tool in organizations such as schools and hospitals.

The 'food microbe detection and elimination device' would help achieve food safety and the prevention of human and animal deaths at the local, national and global levels.