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**IF I COULD INVENT SOMETHING NEW**

**The Color Changing Danger-Detecting Light Bulb**

**O**rdinarily, light bulbs are used to illuminate dark spaces (through electricity) and for many other purposes, like generating heat. But this light bulb, being discussed, isn’t any ordinary light bulb. For my invention, this light bulb is going to be installed in homes and other public infrastructures, because that’s where it’s going to serve its purpose. At first sight, you might walk into a house and see regular light bulbs everywhere, but if you were told what this marvelous creation could do, you would be stunned. Not only does it provide light, but could save many lives. Embedded in the bulbs are sensitive detectors, capable of knowing when there is a gas leak or smoke. The lamp’s sensors pick up the presence of smoke, not only that, but can detect the movement of seismic waves (earthquake) and other natural disasters that cause change to the atmosphere of an environment. If connected to home cameras, it can also be able to detect the breaking into of homes, for example, a home camera can’t recognize the person’s face if not inputted in the main computer and sends of a warning by changing its color. To know how the bulb reacts, it starts to flicker and the amount of light it illuminates increases rapidly and suddenly changes to a violet/purple color. Using the color red would have been an option, because it signifies danger, but this increases the stress levels of people, as it looks alarming. Using cool colors (as I learnt in art) like purple doesn’t scare or agitate people that much. The illumination of this colored light serves as a warning that danger is about to occur and action must be taken.

**T**he color changing lamp is simple and accessible, rather than relying on alarms that would make a whole lot of noise and trigger people causing more confusion in the place. A disadvantage I can say about my invention is that blind people can’t sense danger. The same as deaf people can’t hear alarms going off. Also, the use of alarms could trigger people who have high blood pressure leading them to stroke.

**T**hese light bulbs can be installed in homes, work places and other indoor areas to ensure the safety of people. So, during an emergency the color changing danger- detecting light bulb instantly recognizes danger and communicates it visually through the variation of the normal hue of light. This gives people the time needed to quickly respond. The light bulb detects danger really fast, even quicker than the human brain could detect. The sensors installed in them are super sensitive. With this innovative idea of mine, the regular boring light bulb has been transformed to a safety device ready to detect any moment of trouble. I advise this should be installed in all establishments, because the safety of our people comes first.