NAME: Ohiagu-Nnaemeka Chiedozie Gabriel

SCHOOL: King’s Anchor College

CLASS: Junior Secondary School JSS2

IF I COULD INVENT SOMETHING NEW

If I could invent something, it would be a device that could eliminate all forms of pollution from the air, water and land. Pollution is a major problem that is impacting our environment and our health in a negative way. From smog-filled cities to contaminated water ways, the consequences of pollution cannot be over emphasized.

Air or water is considered to be polluted when it contains certain substances in concentrations high enough and for durations long enough to cause harm. These include adverse effects on human health, property, and atmosphere.

Therefore, my invention will be worked by using advanced technology to filter out harmful pollutants and break them down into harmless substances, leaving behind clean and healthy environment.

The process of gas adsorption will be used which is a surface phenomenon. The gas molecules are attracted to and held on the surface of a solid. Gas adsorption methods are used for odour control at various types of chemical-manufacturing and food-processing facilities, in the recovery of a number of volatile solvents such as benzene and in the control of Volatile Organic Compounds at industries.

Activated carbon, which is heated charcoal is one of the most common adsorbent materials. It is very porous and has an extremely high ratio of surface area to volume. Activated carbon is particularly useful as an adsorbent for cleaning airstreams that contain Volatile Organic Compounds and for solvent recovery and odour control. A properly designed carbon adsorption unit can remove gas with an efficiency of over 95 percent.

Adsorption systems are configured either as stationary bed units or as moving bed units. In stationary bed adsorbers, the polluted airstream enters from the top, passes through a layer of activated carbon, and exits at the bottom. In moving bed adsorbers, the activated carbon moves slowly down through channels by gravity as the air to be cleaned passes through in a cross-flow current.

This invention would improve the quality of life for humans and also that of all living creatures on Earth. Animals, plants and the ecosystems would all benefit from the removal of pollutants from their habitats. This invention would help combat climate change by reducing the amount of greenhouse gases and other toxic pollutants released into the atmosphere it would be a major step towards achieving a sustainable and healthy environment. What a wonderful clean environment that will be!

Furthermore, this invention will bring economic benefits to our world. The costs associated with cleaning up pollution and dealing with its harmful effects will reduce significantly.

This invention comes with its challenges and would need to be overcome with determination, dedication and collaboration from experts in various fields, this will be possible.

In conclusion, if I could invent something new, it would be a device that would eliminate all forms of pollutions from our environs. This would have profound impact on our planet and quality of life.