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“IF I COULD INVENT SOMETHING NEW”

If I could invent something new it will be a device that would literally pull back the earth from the edge of a climate change induced destruction we have mismanaged in our planet for too long, through unwholesome practices like burning of fossil fuels for energy, generating smokes and fumes from industrial activities.

From research, it has been discovered that a given sample of air has 78% nitrogen, 21% oxygen, 0.02% of carbon-dioxide and negligible quantity of traces gases and water vapour. The release of pollutants into the atmosphere has made the quality of air that humans and animals depend on for their daily survival to depreciate. And sadly, as a result of economic gains and sub-regional politics, global leaders have failed to reach a consensus on how to tackle this problem that threatens the human existence on the only habitable planet in the universe.

While the importance of oxygen to animals and carbon dioxide to plant is common knowledge, science has been able to prove that carbon dioxide has the unique characteristics of trapping heat. Our unregulated burning of hydro-carbons and fossil fuels for energy has led to the increase of carbon-dioxide in the atmosphere which directly lead to global warming.

Other unwanted products that gets into the open space are carbon-monoxide and dust particles.

With a good understanding of the scope of the problem and the enormity of the challenges before us, as I had started earlier, if I could invent something new, it will be a machine that would improve the air quality in the atmosphere. It will ultimately reduce the effect of climate change on the environment. The device which I called a “CARBON REGULATOR” is designed to put a check on the quality of carbon-dioxide in the atmosphere and put it within the acceptable limit of 0.02% in any given sample of air.

In operational terms, the machine will serve three purposes.

The first is to convert carbon-monoxide to carbon-dioxide and mix it with the carbon-dioxide that is already in the air. The second is to extract part of the carbon dioxide out of the polluted air. The third purpose is to extract dust particles from the polluted air.

The prototype of the “Carbon regulator” has a cylindrical pipe which serves as the inlet channel through which the polluted air enters the device. Attached to the middle of the inlet pipe is a catalytic converter which converts every trace of carbon-monoxide in the air mixture into carbon-dioxide.

As the air goes deeper into the inlet pipe, it comes in contact with layers of quick line (or calcium oxide) which absorbs part of the carbon-monoxide. The partly purified air mixture now enters into another compartment that has a particle filter attached to it. As the air passes through this filter, it becomes fully purified.

Purified air outlet (0.02% carbon-dioxide)

Catalyst (converter) carbon monoxide to carbon dioxide

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Particle filters

Particle filters

Polluted air inlet (inlet chamber)

(Outlet chamber)

Carbon monoxide absorber

In conclusions, this device will be of great value if connected to automobiles, generators and industrial machines.