**If I Could Invent Something New**

One random day in March, I was walking home from school. It was a beautiful day but not for me. Why, you may ask? Well, I was walking a quarter mile to my house in the midday sun. This all felt ironic because there is always a Toyota Land Cruiser Prado in my father's garage and a chauffeur whose only job is to take me to school and back. Why then was I walking home? It was simple: the cost of fuel had become so outrageous that even my overprotective father had decided to make me walk home.

This was ridiculous! How could the government be so heartless? Didn’t they realize how this affected us? Someone would have to figure out a solution to this problem, and as a future inventor, I started brainstorming. Just then, a truck sped by. I thought about the exhaust fume from the truck. It was due to the combustion of fuels, so it must contain heat and chemical energy. What if this energy was harnessed and converted into chemical energy? This could power a car and even do so much more. That’s how I came up with the idea to invent a machine that converts heat and chemical energy into electrical energy. I would call it a thermochemical electric converter (TEC).

For my invention to work, I would combine a thermoelectric generator which converts heat to electrical energy and a galvanic cell which converts chemical to electrical energy. In a car, the exhaust pipe is redirected from out of the car to a glass box. The gas is trapped there and made to pass through the thermoelectrical converter where the heat is extracted. It then goes through the galvanic cell where the chemical energy is extracted. After that, the electrical energy is directed into the car battery to power the car.

This invention provides a good use for the greenhouse gases in the exhaust fumes thereby curtailing global warming. Imagine buying fuel only once a week and with the decrease in sales, the fueling stations would be forced to reduce their prices.

A thermochemical electric converter could also be applicable in motorcycles, generators, and chemical factories which produce smoke. But the best part about this invention is that exhaust fumes are a readily available power source just that we never use it, and it goes to waste and pollutes the environment, so this is a great form of recycling.

This shouldn’t be too hard but don’t take my word for it. I am not a Harvard professor. I’m just a kid who’s sick of walking home from school. But if this machine could work, it would change the world as we know it.

This was a very ambitious idea, but I hope the TEC becomes a reality. It could help millions of people and save a lot of school kids the stress of walking back home after school.

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