CLAIMS

1. A catalytic converter, comprising:

an external shell;

an internal shell spaced from the external shell;

a plurality of magnets located between the external shell and the internal shell; and

a heater arranged within the internal shell that is configured to heat toxic gases and particulate matter that enter the catalytic converter through an inlet port and reduce said gases and particulate matter prior to said gases and particulate matter exiting the catalytic converter through an outlet port.

2. A catalytic converter, comprising:

a housing comprising a first shell and a second shell, the second shell spaced from and internal to the first shell;

a plurality of magnets located between the first shell and the second shell; and

a heater arranged within the second shell~~housing~~ that is configured to heat toxic gases and particulate matter that enter the catalytic converter through an inlet port and reduce said gases and particulate matter prior to said gases and particulate matter exiting the catalytic converter through an outlet port.

3. A catalytic converter, comprising:

an external shell;

an internal shell spaced from the external shell;

a plurality of magnets located between the external shell and the internal shell to generate a magnetic field within the internal shell; and

a heater arranged within the internal shell that is configured to heat toxic gases and particulate matter that enter the catalytic converter and reduce said gases and particulate matter prior to said gases and particulate matter exiting the catalytic converter.

4. A catalytic converter, comprising:

an external shell;

an internal shell spaced from the external shell;

a plurality of magnets located between the external shell and the internal shell to generate a magnetic field within the internal shell; and

a honeycomb filter disposed within the internal shell to slow down the flow of toxic gases and particulate matter from an inlet port to an outlet port of the catalytic converter~~; and~~

~~a pad located between the internal shell and the honeycomb filter to insulate heat within the internal shell;~~

wherein ~~the pad and~~ the honeycomb filter ~~collectively~~ aids in the removal of toxic gases and particulate matter within the catalytic converter.

~~5. The catalytic converter of claim 3, further comprising a pad located between the internal shell and the heater to insulate heat within the internal shell.~~

~~6~~5. The catalytic converter of claim 1, wherein the plurality of magnets forms ~~is~~ an electromagnet.

~~7~~6. The catalytic converter of claim 2, wherein the plurality of magnets forms ~~is~~ an electromagnet.

~~8~~7. The catalytic converter of claim 2, wherein the first shell surrounds the second shell.

~~9. The catalytic converter of claim 8, wherein the heater is arranged within the second shell.~~

~~10. The catalytic converter of claim 3, wherein the heater is arranged within the internal shell.~~

~~11~~8. The catalytic converter of claim 4, wherein the honeycomb filter comprises metallic material.

~~12~~9. The catalytic converter of claim ~~11~~8, wherein the metallic material comprises a noble metal.

~~13~~10. The catalytic converter of claim 3, wherein the plurality of magnets forms ~~is~~ an electromagnet.

~~14~~11. The catalytic converter of claim 4, wherein the plurality of magnets forms ~~is~~ an electromagnet.

~~15~~12. The catalytic converter of claim 1, wherein the catalytic converter is a component of a vehicle exhaust system.

~~16~~13. The catalytic converter of claim 1, wherein the catalytic converter is coupled to a smoke stack.

~~17~~14. The catalytic converter of claim 2, wherein the catalytic converter is a component of a vehicle exhaust system.

~~18~~15. The catalytic converter of claim 2, wherein the catalytic converter is coupled to a smoke stack.

~~19~~16. The catalytic converter of claim 3, wherein the catalytic converter is a component of a vehicle exhaust system.

~~20~~17. The catalytic converter of claim 3, wherein the catalytic converter is coupled to a smoke stack.

~~21~~18. The catalytic converter of claim 4, wherein the catalytic converter is a component of a vehicle exhaust system.

~~22~~19. The catalytic converter of claim 4, wherein the catalytic converter is coupled to a smoke stack.