Redesign a Patented Boat

Now that your team has a working redesigned boat it is time to present your patent. You will be required to have a written application as well as an oral presentation that demonstrates how your boat works, including how it is different from the original version of the boat. You must include a scaled drawing labeled to demonstrate how your design should be constructed.

Abstract

Provide a one paragraph overview of the invention in 150 words or less

Declaration

A. Give Appropriate Credit
   Describe your role in the process of the redesign and give appropriate credit to others on the team.

B. Oath of originality
   Provide a statement that declares to your knowledge that your part of the redesign is an original and not a copy of another’s work. End this section with your signature.

Specification

A. Describe the prior work
   Describe the basic putt-putt boat that was demonstrated in class and explain clearly how it works. Use diagrams to show the engine cycle that takes place. Refer to the previous patent for help completing this section.

B. Drawing and Explanation
   Provide at least three orthographic views of your boat and one isometric drawing. Your drawings should be done to scale. Provide a description of how you built the boat. Your description should be clear enough so that someone who has never seen or built the boat could build one, and understand the scientific explanation of how it functions. Your explanation should include engineering design, fluid flow, resistance in pipe, heat engines, pressure, energy and forces, temperature differences, energy conduction, and properties of liquids and gasses.

C. Design Improvement Claims
   Describe how your improvements affect the performance, use or look of your boat compared to a previously patented boat. Your improvements must show the application of scientific principles to solving this problem.