

Control and Manipulate Fluid Movement

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Abstract

Water can be propelled from one end of a ship/Boat to the other by using a high sound frequency and leveraging the Mpemba effect. The boat May Move across the water in a sea or river without burning fuel because to this displacement of water beneath the vessel in the opposite direction, which creates a forward buoyant force.

Keywords: Sound Wave, Submersible, Pressure, Transport, Mpemba effect

1. Introduction

Acoustic resonators can be employed to distribute or spread water pressure in specific ways. By strategically placing acoustic resonators within a system, it is possible to manipulate the distribution of pressure within the water.

Acoustic resonators are designed to create standing waves or amplify certain frequencies of sound. When placed in water, they can induce vibrations that interact with the surrounding medium. By carefully adjusting the placement and properties of the resonators, it is possible to influence the pressure distribution.

The specific design and configuration of the acoustic resonators would depend on the desired outcome and the system in question. Through experimentation and engineering, it is feasible to develop resonators that can help spread water pressure more uniformly, redirect pressure gradients, or mitigate localized high-pressure areas.

This technology can be used in submarine and submersible where water pressure plays a critical role

2. Problem

The Current Solution in the market are:

- A. At present, industries are using conventional sources of energy to burn the fuel needed to drive boat etc in water
- B. Pressure hull is used in submarines
- C. Pipeline operators use real time data to monitor and maintain pressure in pipeline

3. Opportunity

This solution will be used in multiple use cases such as below

- A. The boat May Move across the water in a sea or river without burning fuel because to this displacement of water beneath the vessel in the opposite direction, which creates a forward buoyant force.
- B. In Submersible and submarine where water pressure in ocean is immense, acoustic resonators can be used to distribute water pressure
- C. Maintain fluid Pressure In oil and gas pipelines of long distance

4. Advanced Use Case

It can be used in sustained chain reaction to incrementally reduce pressure and temperature of any metal to make it at absolute zero.