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UNIVERSITI TEKNOLOGI MARA
FACULTY SPORT SCIENCE AND RECREATION
BACHELOR OF SPORT SCIENCE

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TITLE: MICROMESH BOTTLE

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CHAPTER 1

1.0 PRODUCT DESCRIPTION

INTRODUCTION

The team will develop a bottle water for recreation used that will help many sport man in their activity. This bottle can regenerate water through the condensation process. The bottle water will fill water by trapping the humidity from surrounding environment. The users will be provide with fresh water to them without any worries from any chemical substance. This product concept mostly helps the climbers, biker, hikers, and many more outdoor activities. This bottle gives you the freedom to plan your adventure without worrying about the most elemental component of survival: water supply.

Purpose of development

- To enable the sport man to obtain fresh water from the surrounding air depends on temperature and humidity.
- Provide clean water at high altitude and dry place.
- To enable user to get water when there is no water supply.

Applications

- Give clean water from the area the clean water is scarce.
- Filter humidity and get fresh water.
- Keep the user hydrated.
- Reduce the wasting bottle.
- environmentally friendly

Features

1. Sample design: compact, comfortable, small, and simple design.
2. Works with the basic principles of environmental processes. (air to water)
3. Powered by solar cells
4. Have a small cooler at the center.
5. Carbon fibers to keep the dust and bugs out of the water

Description Micromesh Bottle

Solar panels that generate the electricity needed to cool the upper chamber of the devices, while the bottom heats up. Air will pull in, and then slowed and then cooled as it moves through that upper chamber. The humidity from the air then condenses into water and drips into water.

Target Market:

1. Hikers
2. Bikers
3. Climber
4. Travelers
5. Sport man
6. People living in a dry place

Benefits of the product:

1. Light
2. Convenient
3. Can be charge using USB from mobile phone
4. Smart: take source from nature power
5. Freedom: Can give your more choice to doing activity
6. Design: Comfortable, small, systematic design, easy to use.