

Product Name

Air-Purifier bike

Designer

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Description of innovation social values

- product category
- formal and functional features
- problems solved by innovation
 - user
 - field of application

The air-purifying bike is a green bike concept. The concept is to have a bicycle that can reduce the air pollution problem in the city.

The bike has an air-purifying function which consists of air filter and oxygen generator. While riding the air filter at the front of the bike will pull the air inside through the CO2 and dust filter and then let the clean air out. The body frame can produce Oxygen via a photosynthesis system to make the air cleaner. When parking the bike, the purifying function can be maintained to work by the battery inside.

Description of technical features

- operations
- technology

Air filter : The bike has air filter at the front of it to catch the dust and CO2 in the air. It can pull the air through the filter more by using the electric power.

O2 generating : The "photosynthesis" system is a concept material idea. Due to our concept, it should work like a plant which generates oxygen through the reaction between water and electric power from batteries. It's just a concept. Therefore, it still needs some development into reality.

Power : Using electric power by lithium-ion battery.

Dimensions

174 cm x 106 cm

Materials

Aluminium (Body frame)

Certifications

Reddot design award : Design concept 2013

Benefits for environment

Reduce the air pollution and traffic jam in the city.

Benefits for human being

Decreased lung disease that caused by the air pollution. make the human health's better and save the health cost in the future.