November 5-9, 2018
INAIL
Rome, piazzale Pastore 6

Erasmus+

KA2-Cooperation for Innovation abd the the exchange of good practices

Teaching basic sciences to young people with fewer opportunities: towards inclusive education

Implementation example

RAD project : school net of standard bio air purifiers (Aria Indoor) based on a domestic freshwater aquarium

Use of an innovative indoor air purification system.

The system, designed with commercial purposes, is applied for educational purposes by reality task experience .

Aria Indoor is proposed as economically accessible tool for an innovative learning of basic matters

Implementation example

- A real applied-research challenge, with an experimental development that is shared by students, and tutors: school and University teachers and professional experts (/IT IS/ CRF/University)

Mathematics

Biology

Physics

Design

History

Chemistry

Economy

IOT-informatics

Expected results

- The students are stimulated to find new and better solutions for the continuous improvement of the innovative device, according to their different school orientation (chemistry, biology, design, economy, technology…)

Expected results

This experience can:

- educate students to respect different competences of the involved fellows, preferences and orientations
- stimulate the functional deepening of basic sciences involved in a complex biochemical tool in order to promote realistic improvements of the device
- help to develop an open and critical attitude (fake news vs. knowledge)

Operational diagram

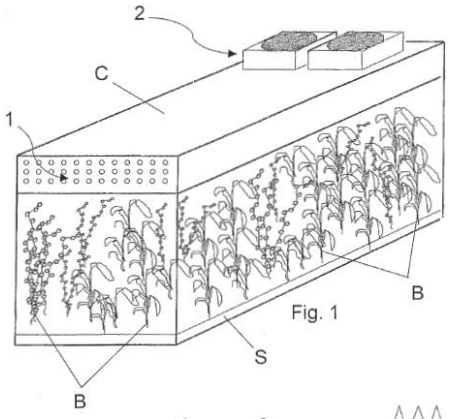


Fig. 1

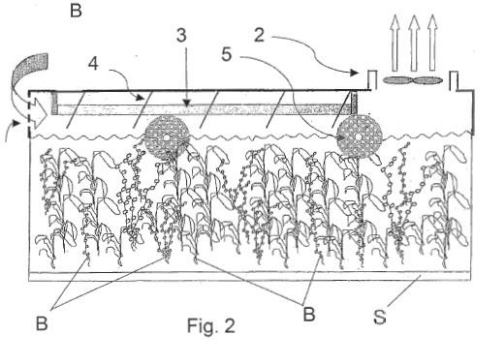
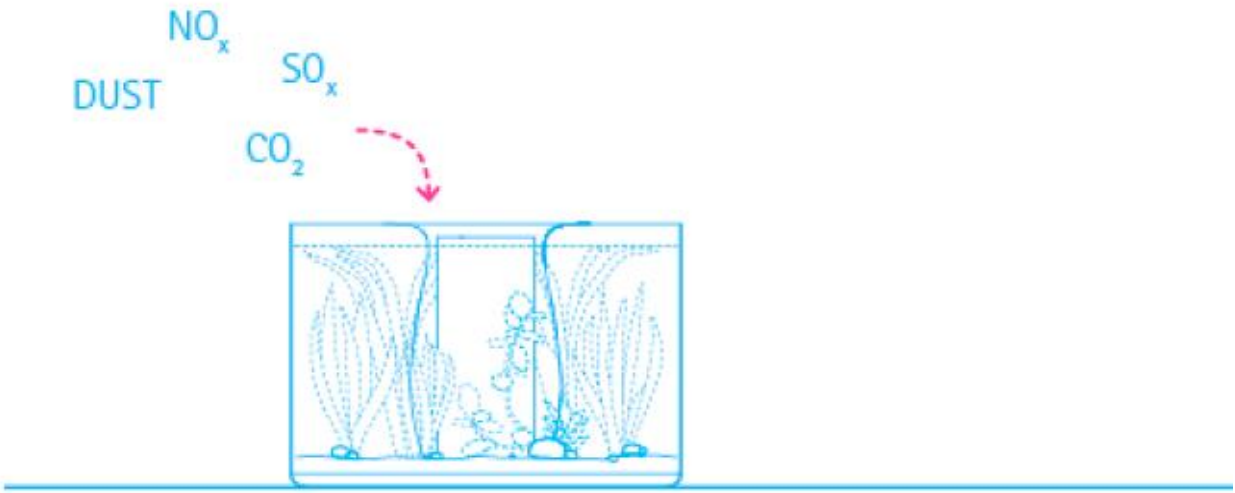


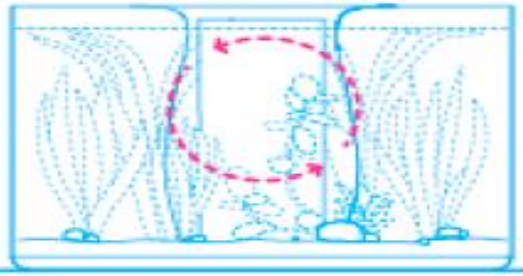
Fig. 2

HOW IT WORKS



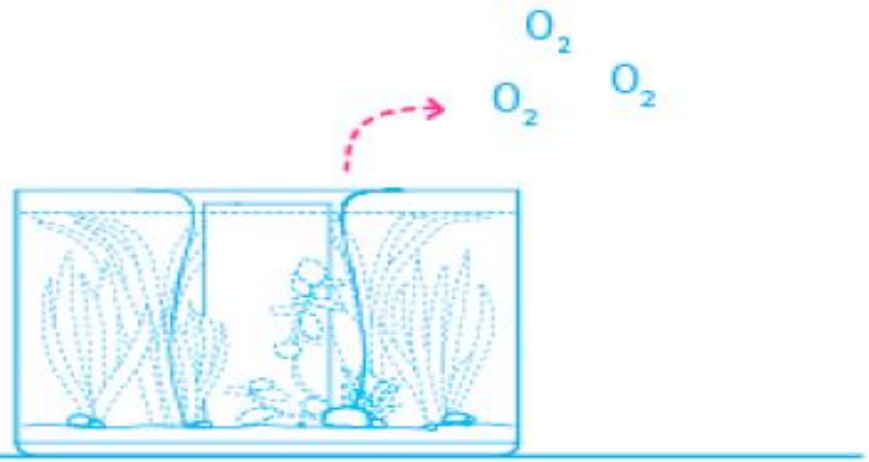
1. POLLUTED AIR INTAKE

HOW IT WORKS



2. PROCESSING

HOW IT WORKS



3. CLEAN AIR OUTPUT

Aria Indoor

Advantages of Aria Indoor

- Accessible cost of the device
- easy to built and to run
- “calogakathia” (ideal of pysical and moral perfection)
- respect of biological process: a living being needs non-delegable cares, a dog as well as an aquarium…And both have “purifing”, beneficial effects on the care-giver…

Long-time results

- consider sustainable entrepreneurship as a viable choice after graduation
- extending the capacity to inter-professional cooperation and quality management to any project

The main goal

- To promote the growing of beutiful and performing wings to the Youth's achievable dreams.

- ...repudiating the famous Gibran Khalil Gibran assertion: "For the vision of one man lends not its wings to another man"

Closing slide

- Thank you for your attention