

INSPIRATION FROM NATURE



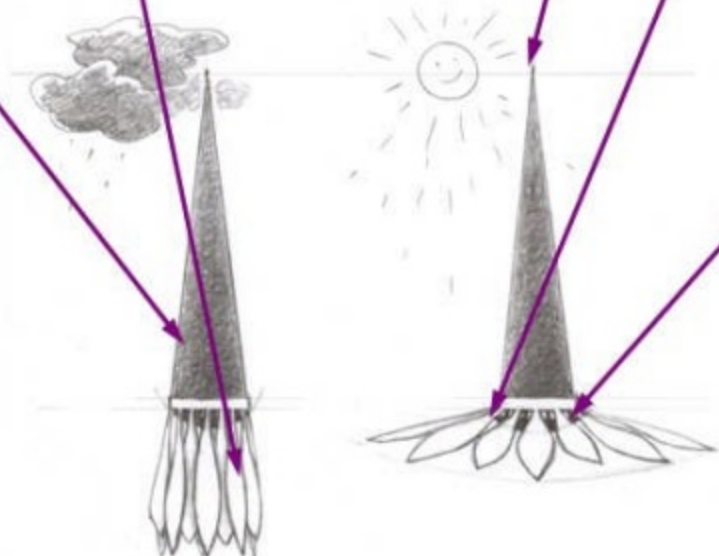
Form

Process

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Process

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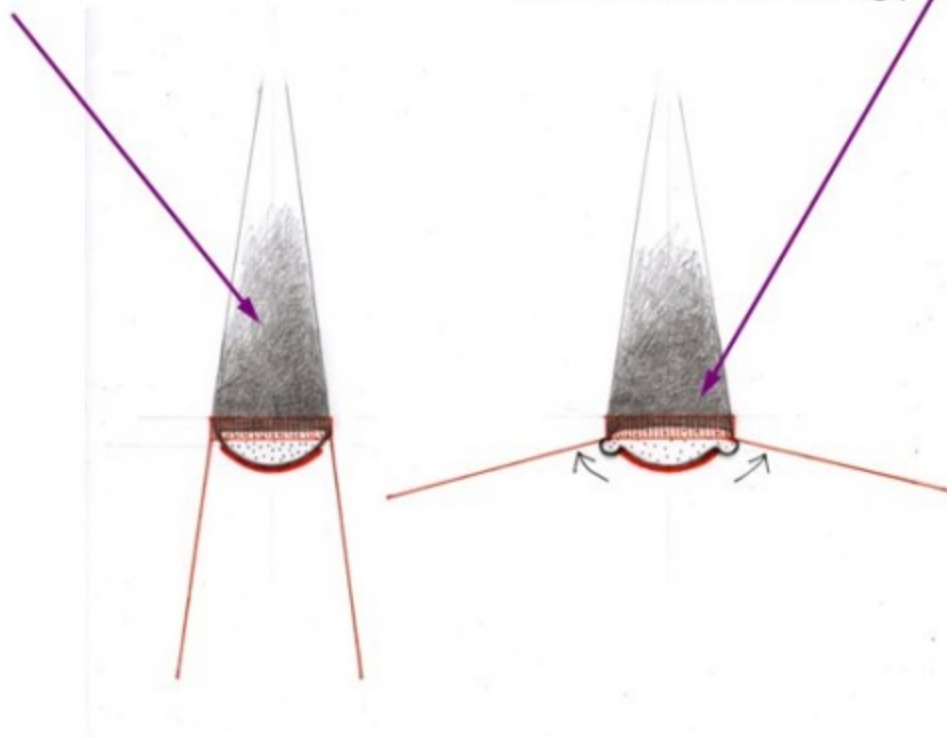


ACTION OF SHADING ELEMENT

1. Sun radiation warms up copper and gas expands

2. Gas's pressure increases and elastic material becomes larger and pushes up light leaves with mechanical energy

3. When sun stops shining device cools and leaves turn down



Energy comes only from sunlight not from any other source. Device uses energy of the sun shining and save costs of energy. We do not need advanced system to control this device

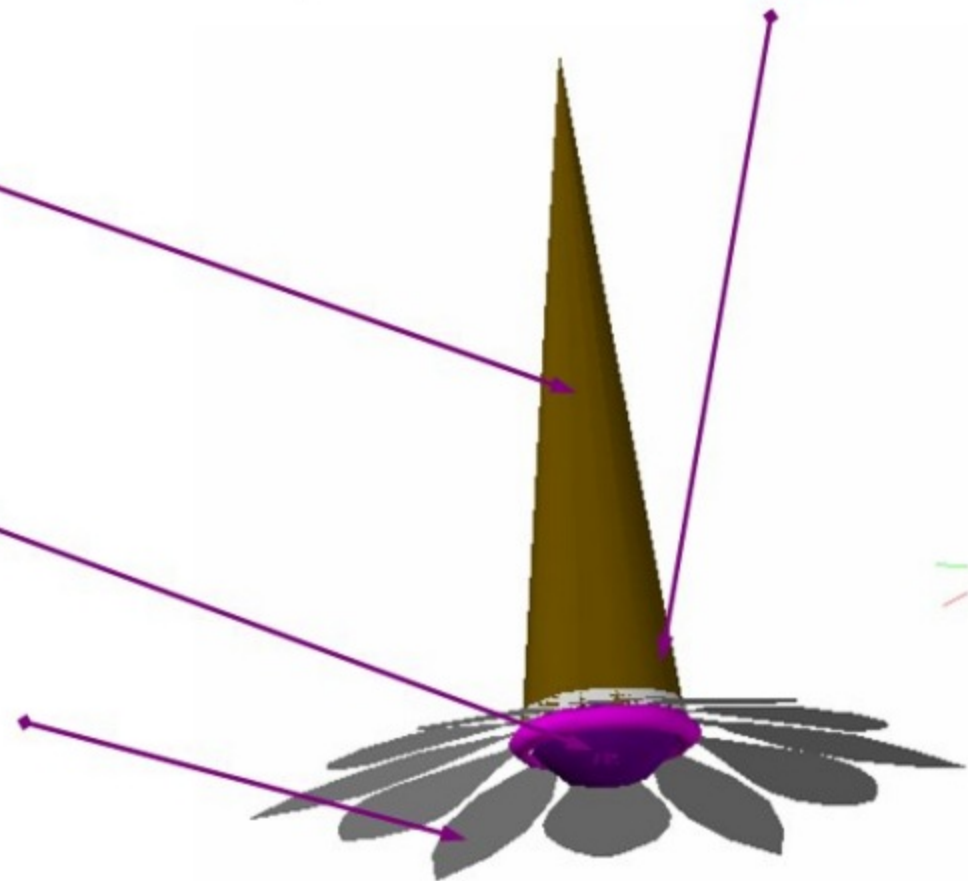
COMPONENT PARTS

solid conical cap
connected with
upper net

elastic material layer
filled in copper cap

light, sunshine
reflecting leaves

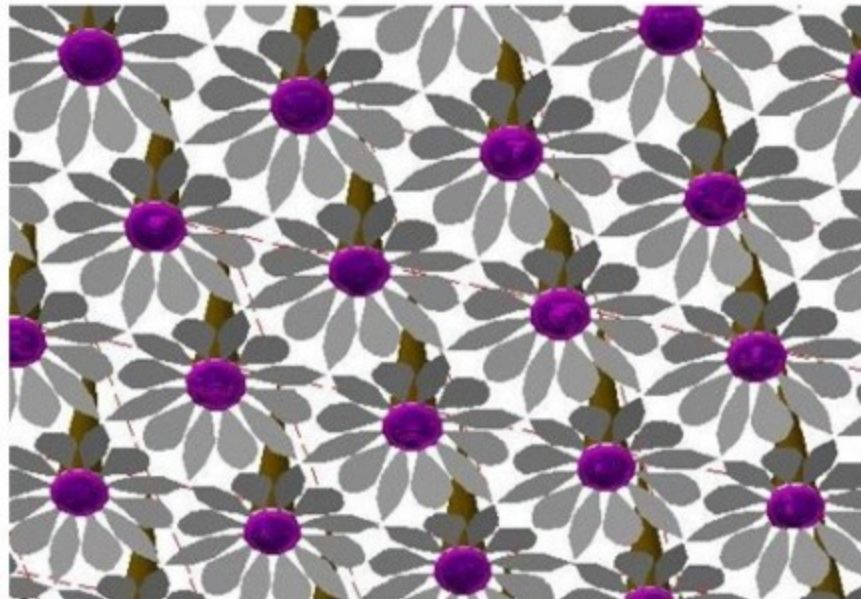
space filled with gas



EVALUATE TO LIFE'S PRINCIPLES 1

Be resource efficient

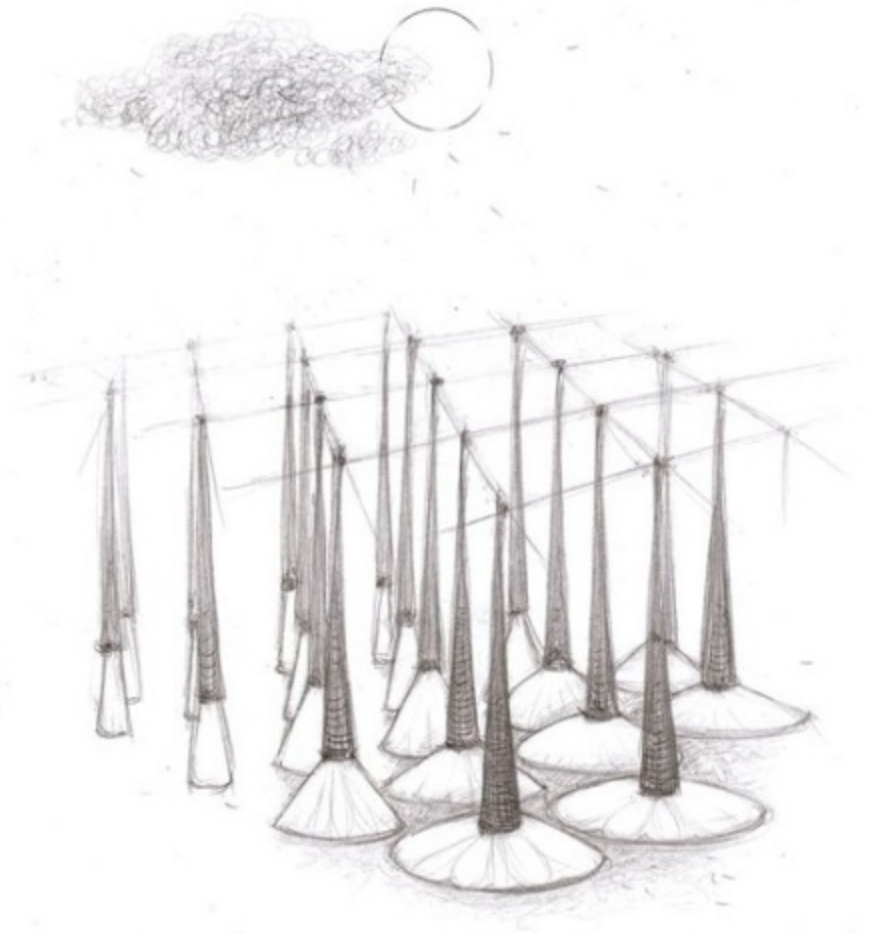
- energetically self sufficient system,
- self-controlling management of independent elements,
- design of the system according to the greenhouse spirit,
- use ready available energy.



EVALUATE TO LIFE'S PRINCIPLES 2

Adapt to changing conditions

- shade elements respond to sun's rays increasing temperature and accordingly unfurl providing shade or light then it is necessary for the plants in the greenhouse
- embody resilience through variation
- redundancy and recentralization possibility



EVALUATE TO LIFE'S PRINCIPLES 3

Integrate development with growth

Whole shade consists of separate blossom shape elements that open in result of the sun. Each element works separately providing optimal shade and transparency in each point of the whole shade.

