

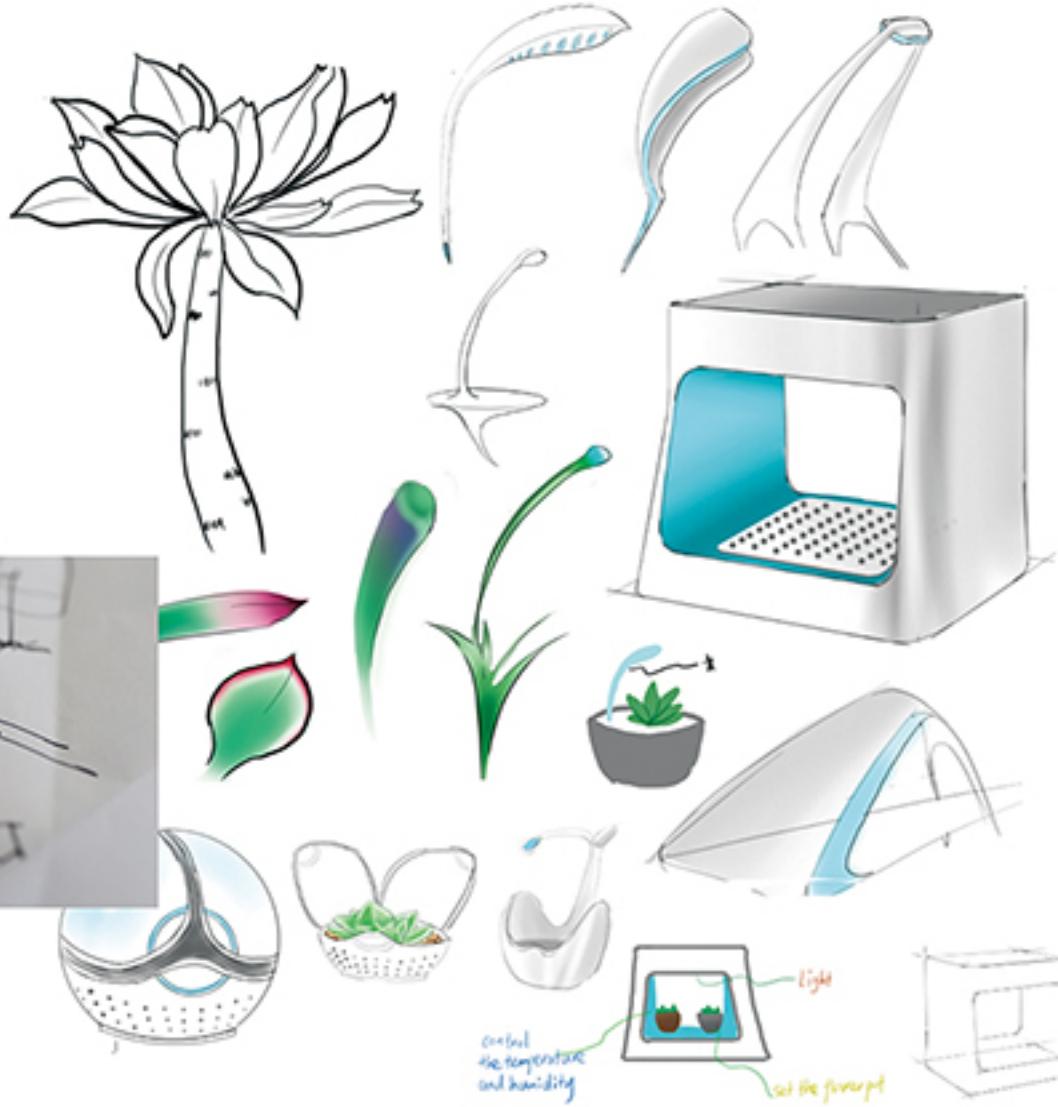


SKETCH  
AND  
CONCEPT DESIGN

# Sketch

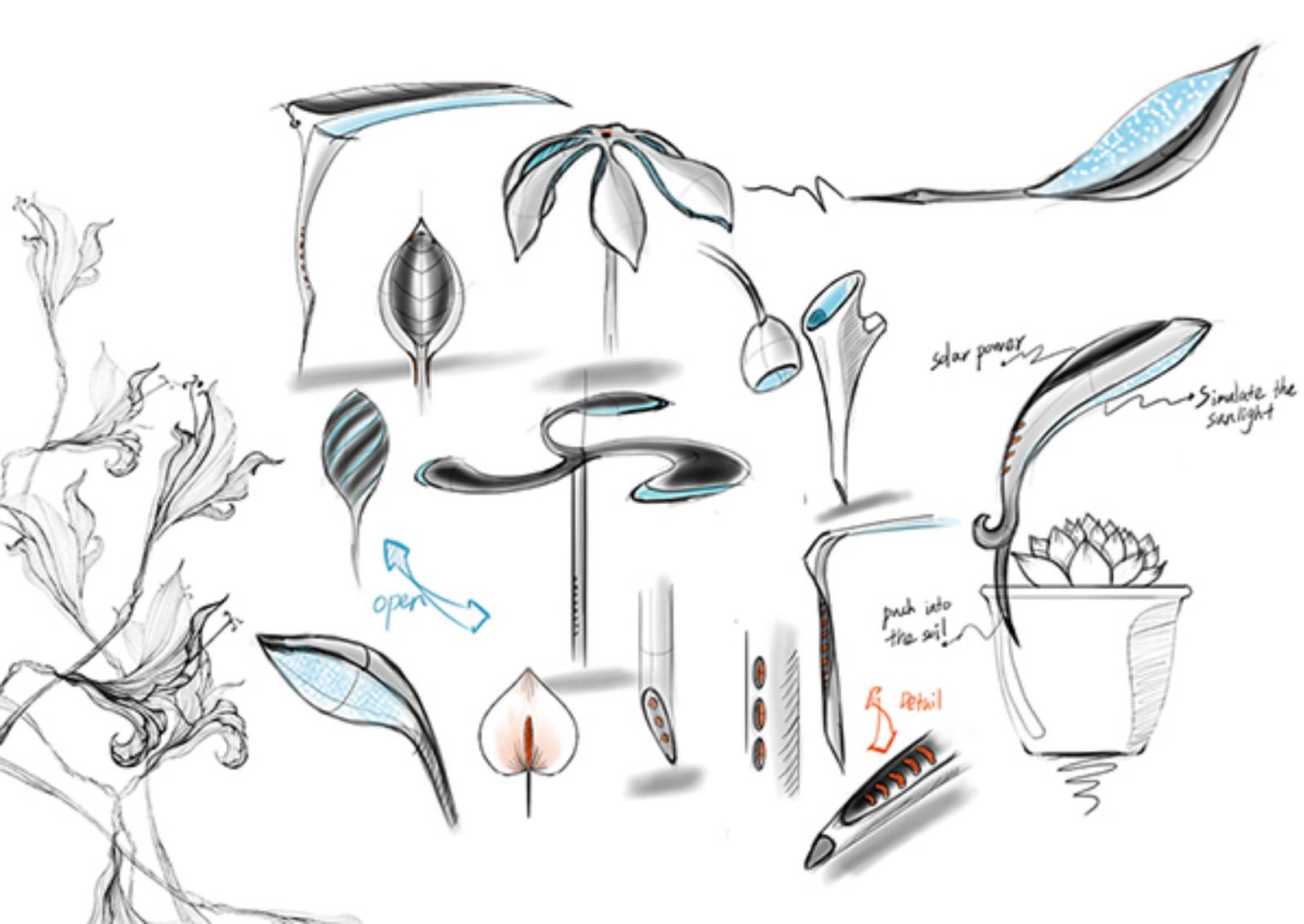
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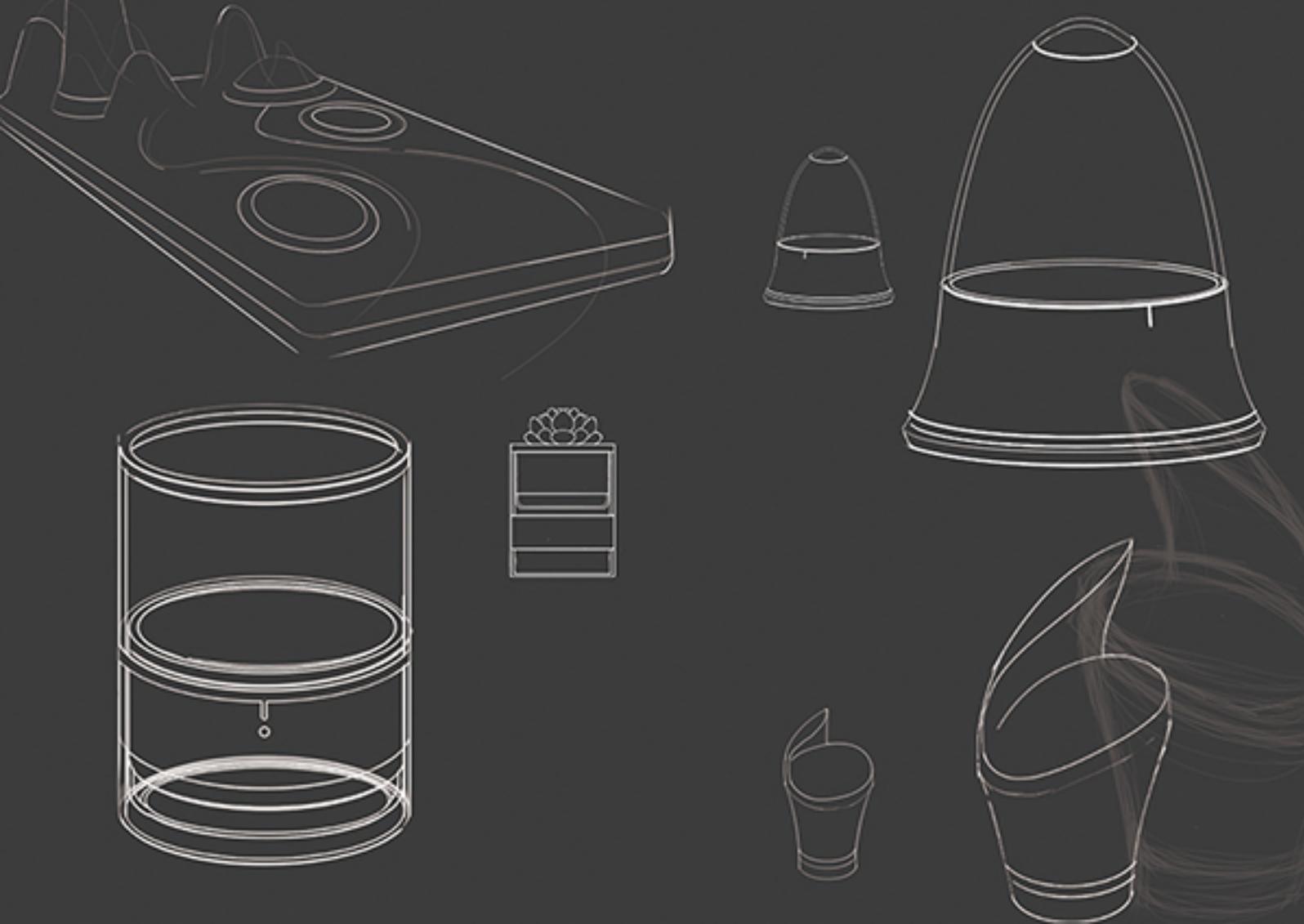
## Concept Design

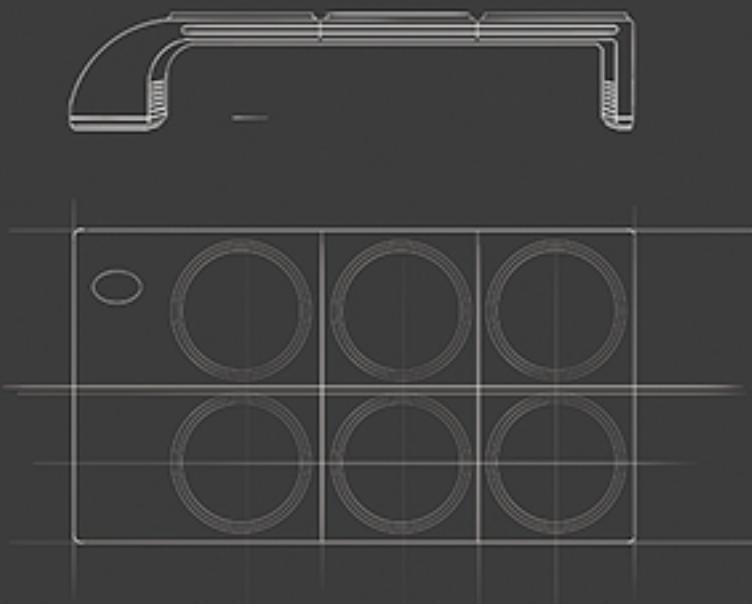


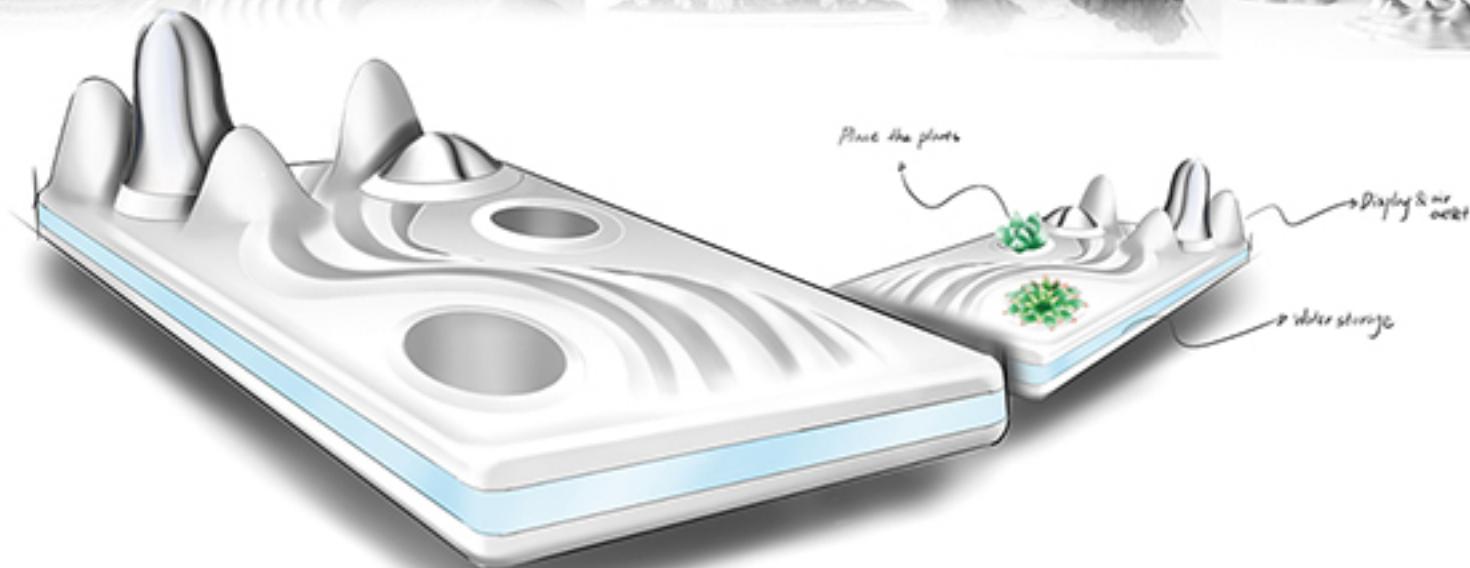
# Reference .





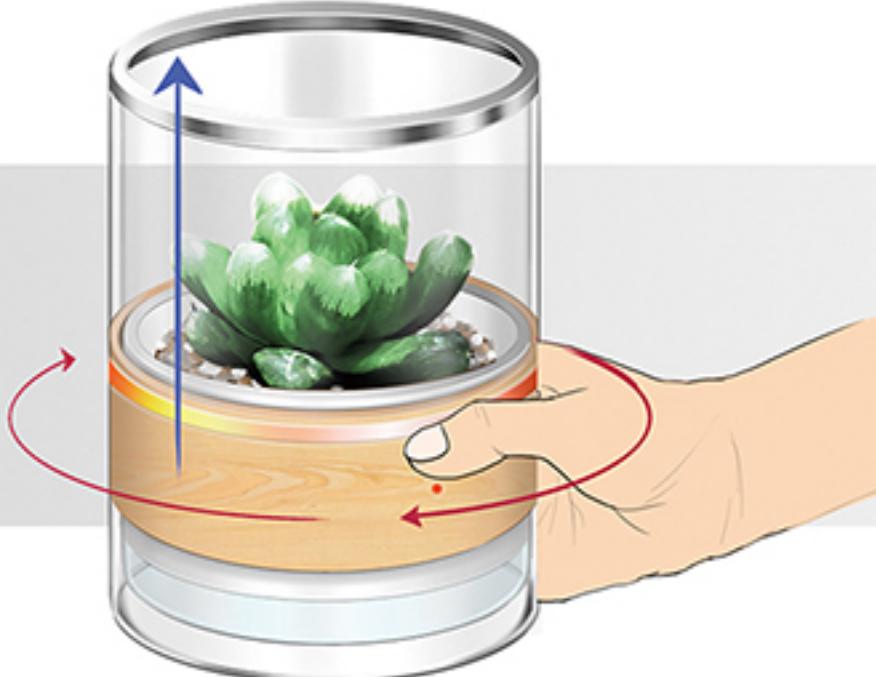




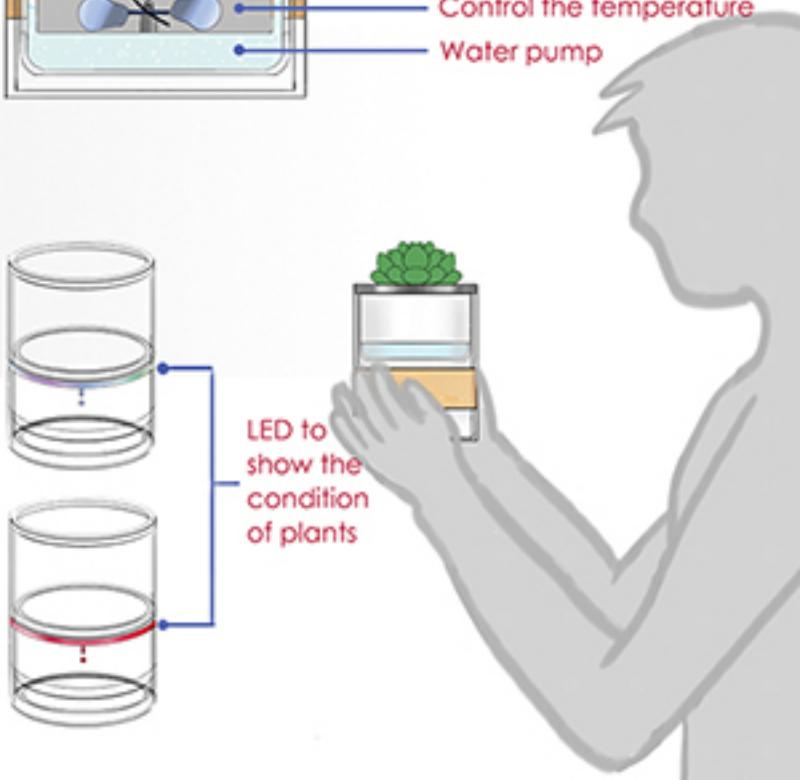
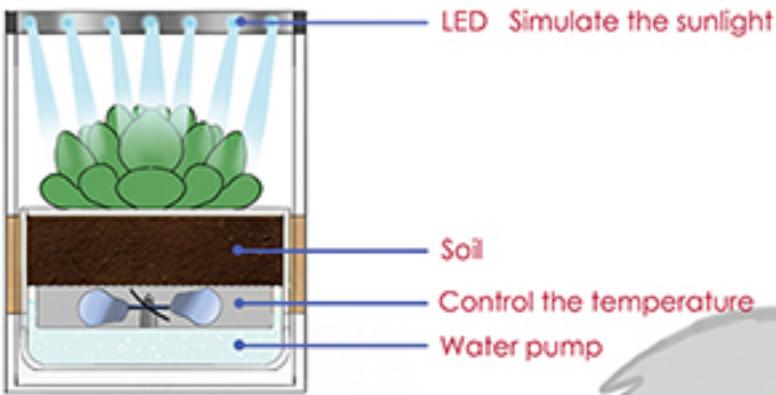


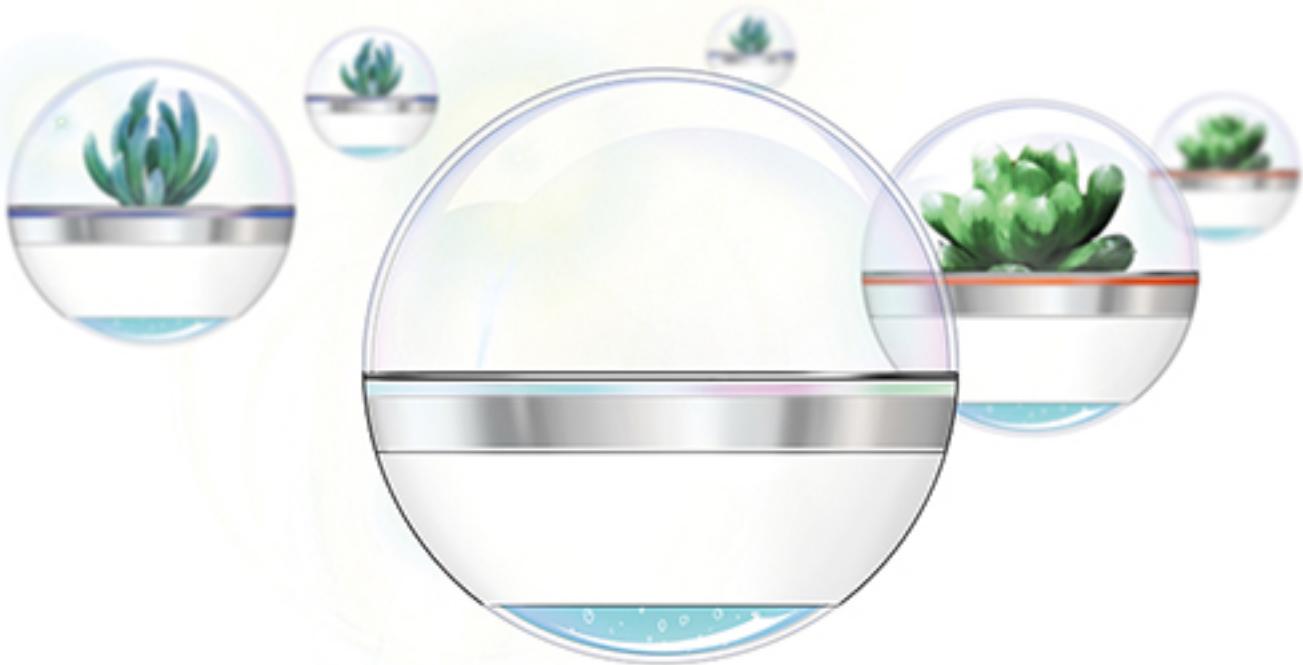


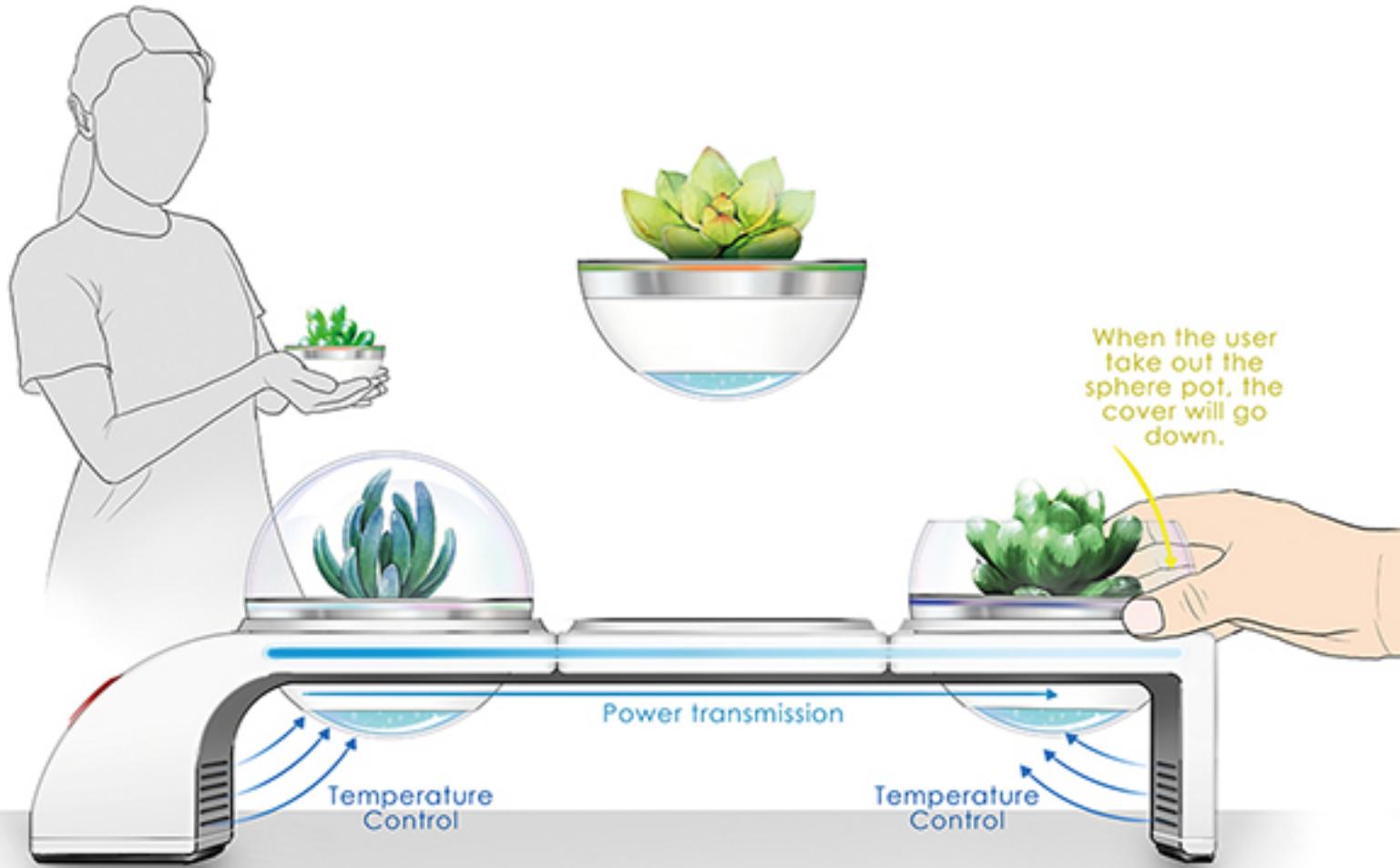


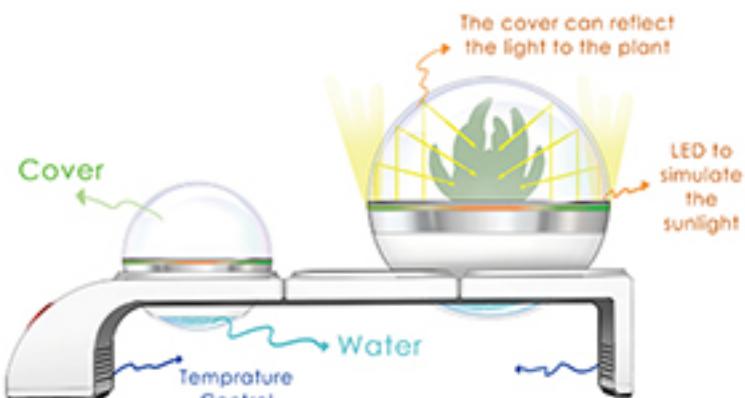
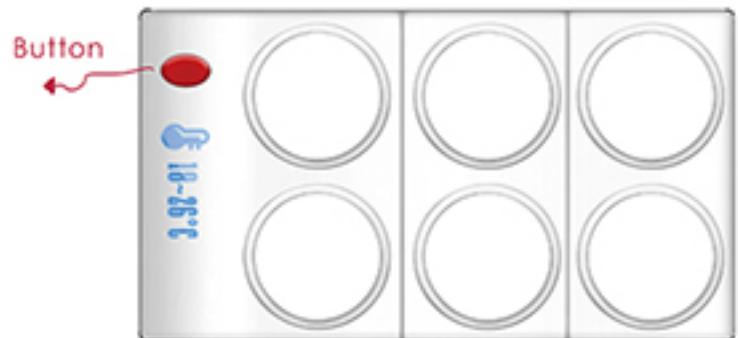


Screw the pot housing, the pot can go up.  
The user can touch their plant.

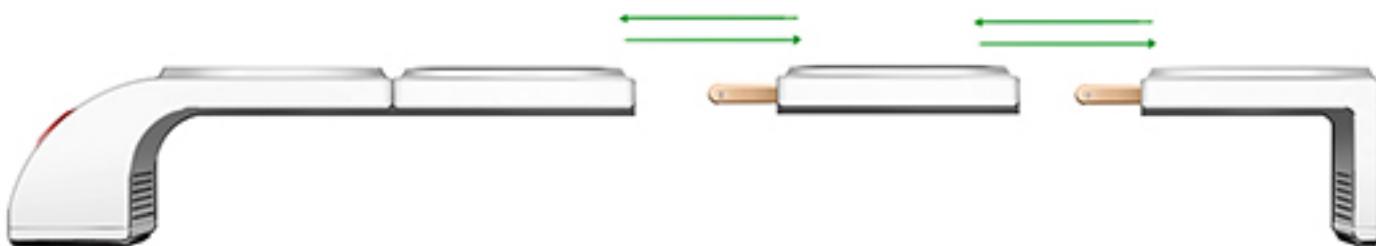






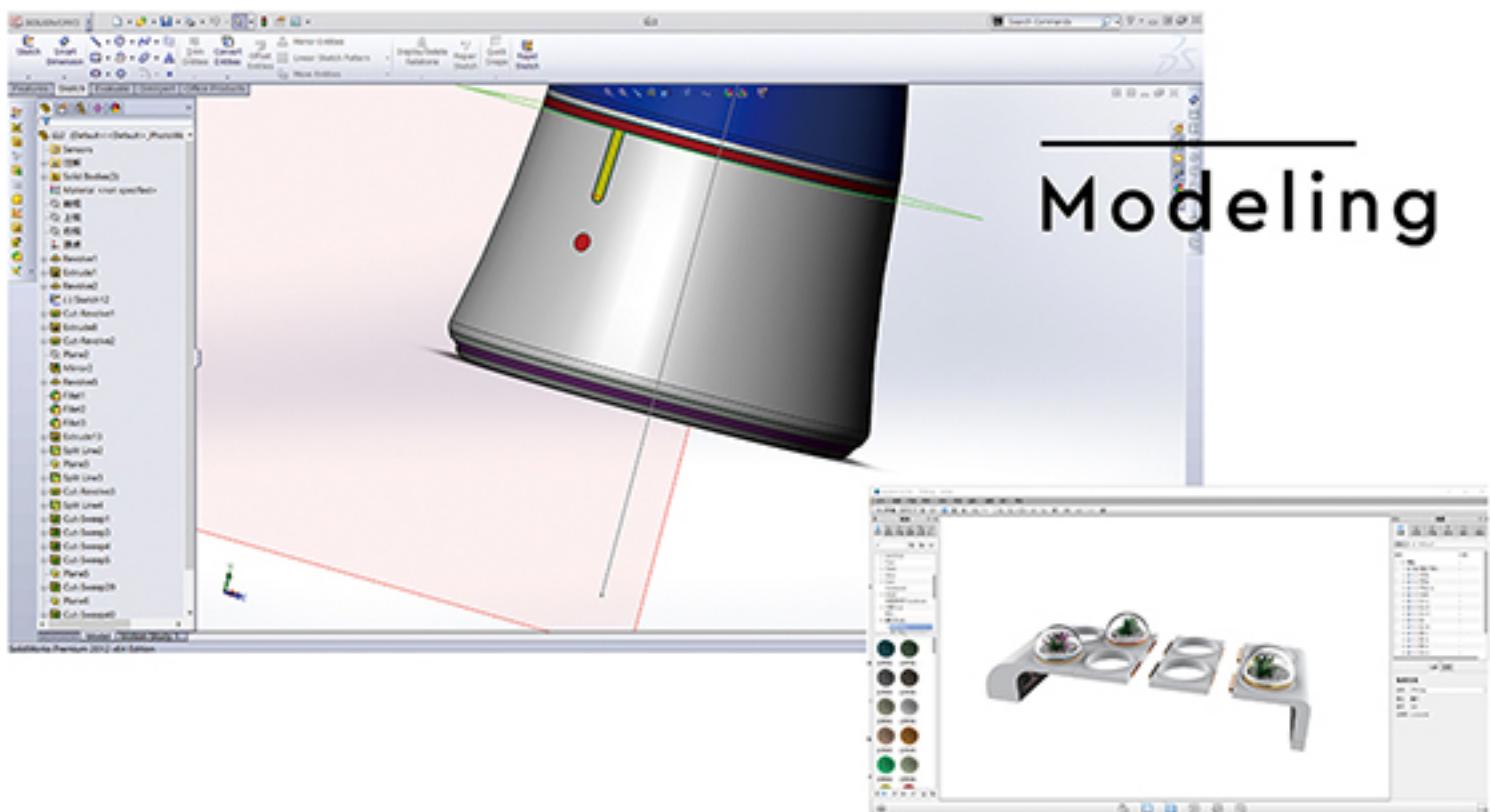


You can add extra platform to put more plants.



VI

MODELING



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According to the concept design, Using solidworks to build model, and keyshot to rendering. So we can evaluate the design more visual.

△△△

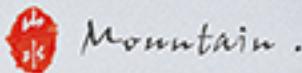




Mountain .

# SMART POT



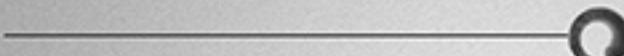


# INSPIRATION .

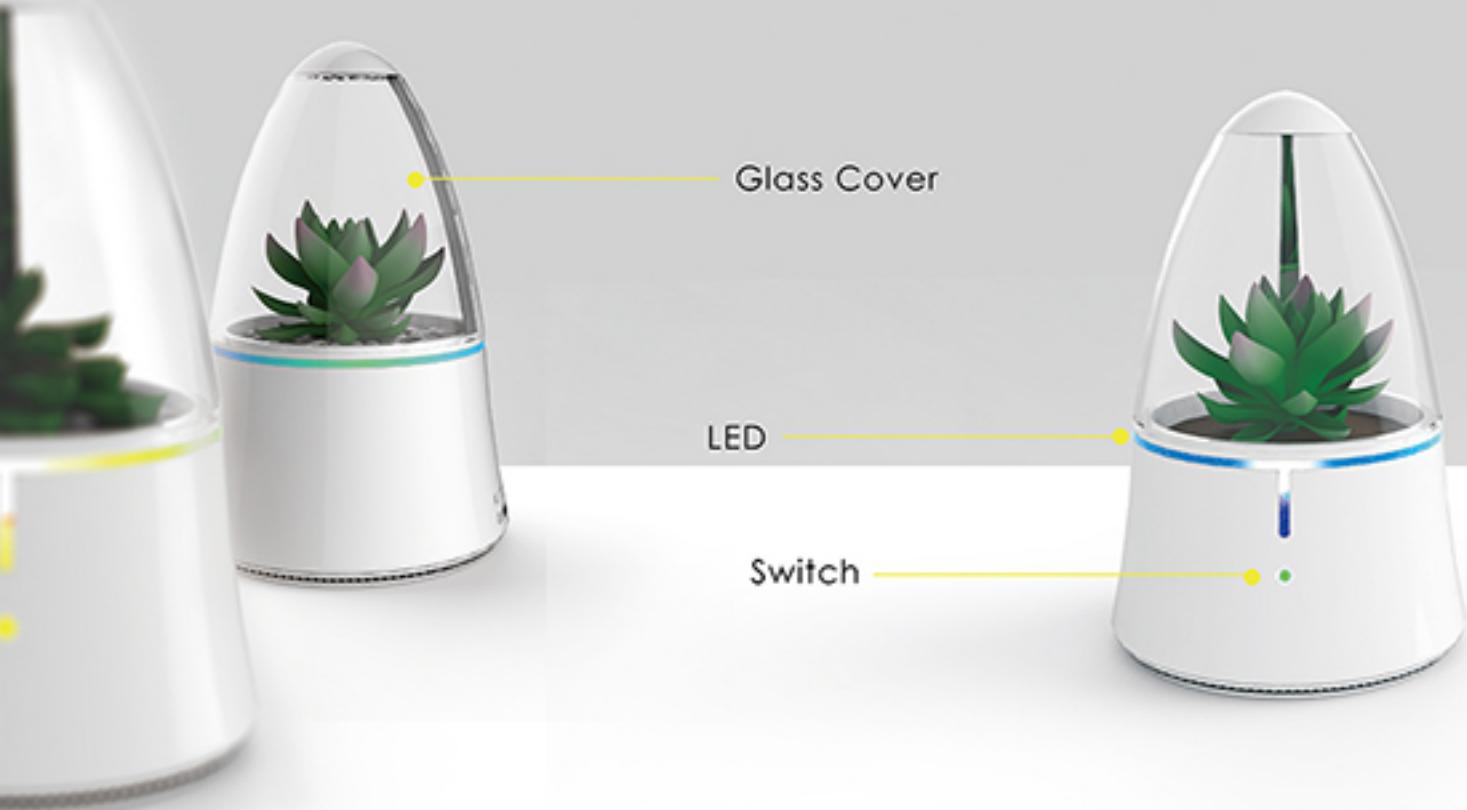
The **Mountain™** smart pot is inspired by Japanese garden and Chinese mini artificial rocks. Using the shape of mountain to create a mini gardening on the desk. Giving people a feeling of silence and harmony.



The bottom of the pot is the mini air condition which can keep the plant enjoy the best temperature.



The top of the pot is the LED light which can simulate the sun light. Hence, the plant can have enough photosynthesis.



Glass Cover

LED

Switch

## The Glass Cover

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It is detachable, so that, the user can take it over. They can close touch their plants. And the plant can accept more sunlight when the weather is fine.





Charge Port

## DETAIL

Pond



Top View

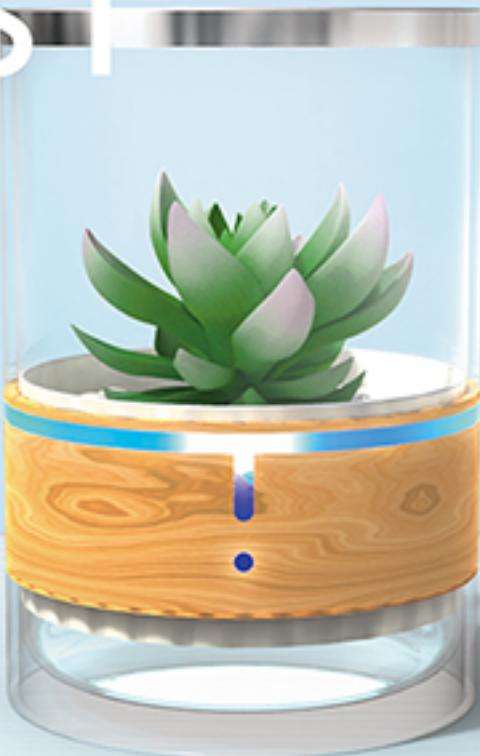




# TWIST

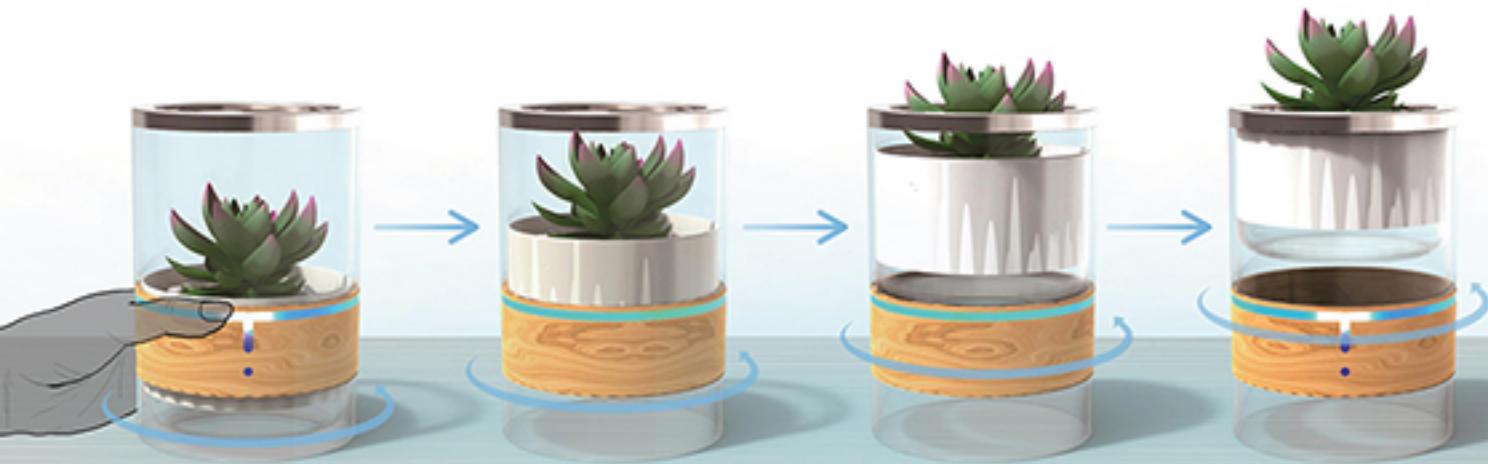
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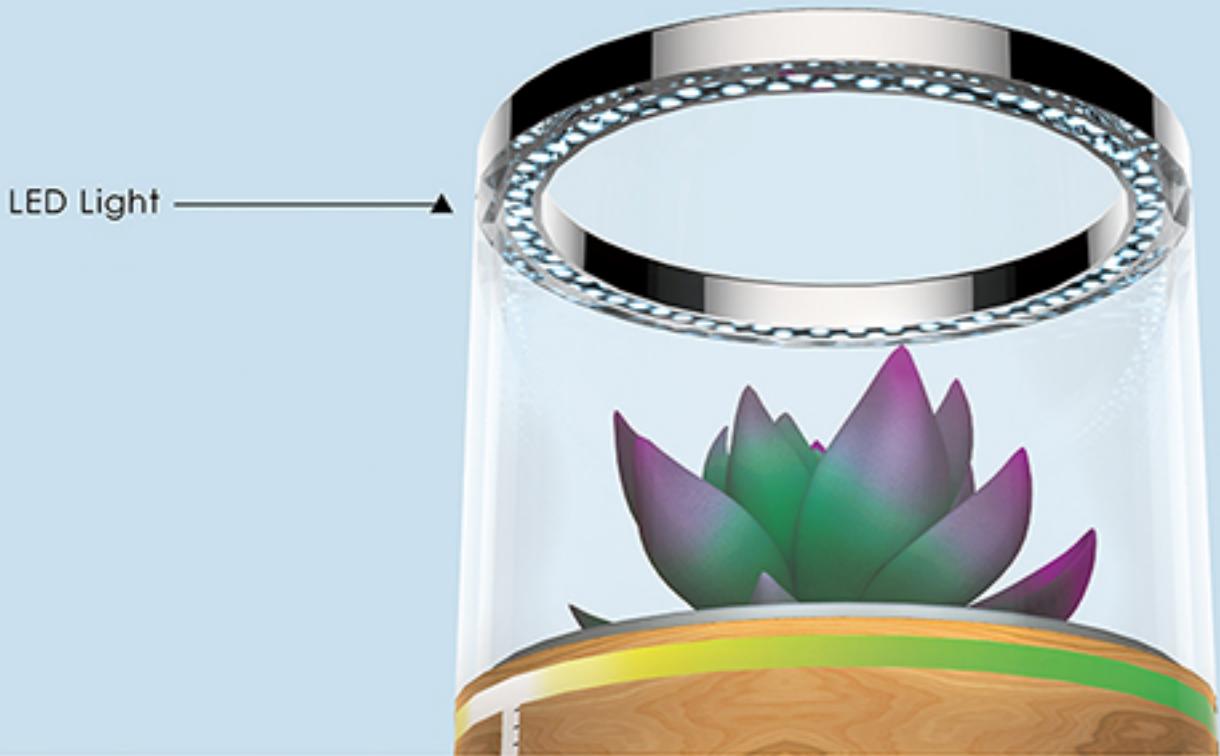
Smart Pot for The Succulent Plants



The user can screw the pot housing like twisting the lipstick, so the pot can go up and user can touch their plants.

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The top of the pot is the LED light which can simulate the sun light. Hence, the plant can have enough photosynthesis.



The LED loop can change different color which is according to the health condition of succulent. Hence, the user can easily find the problem of their plants.

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► Glass Cover

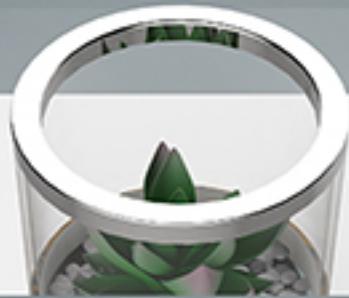
► LED

► Switch

► Water

# DETAIL

Of Twist Smart Pot



The twist smart pot is full of fun and elegance. When you put it on your desk, it can become a decoration, give you more beauty with your succulent. And it can protect your plant very well, automatically growing your plants.





**BUBBLE** Smart Pot





Glass Cover

LED Loop

Water Storing



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The bubble smart pot has two parts, including pots and a platform. The user can choice different number of pot to grow there plant. It is more flexible and convenient.

## Modularity.



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The plantform is modular. The bord can be take off, the user can choice the number according to their plants. The bord can connect using special port, so the electric power can be delivered. So that the individual pot can automatically grow the plants.



# BUBBLE Smart Pot

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The bubble smart pot is the good protector for your succulent plants. It was inspired by geometry, and can be a mysterious garden on your desk.





# BUBBLE Smart Pot

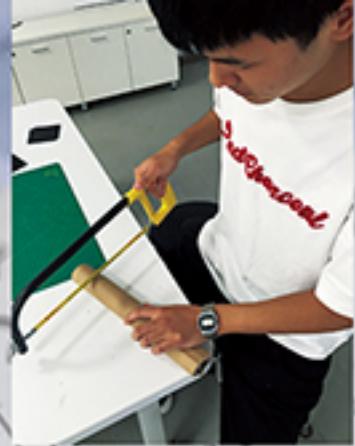
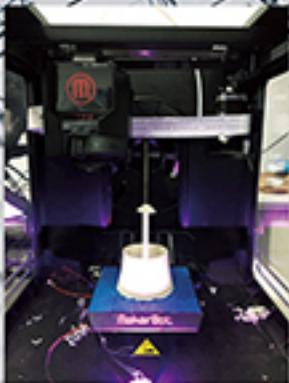
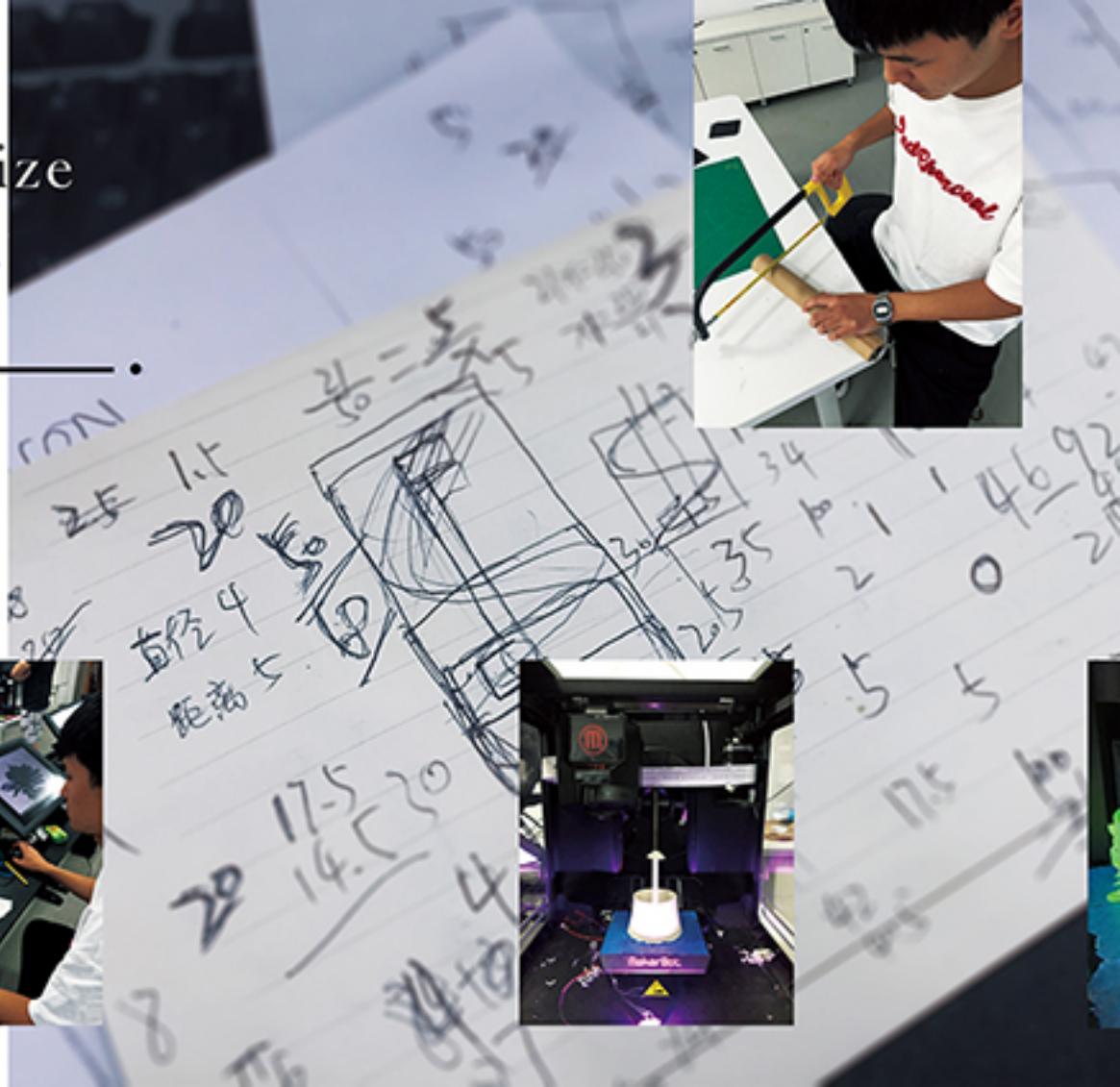


Air Outlet  
to control the temperature

VII

OPTIMIZE DESIGN

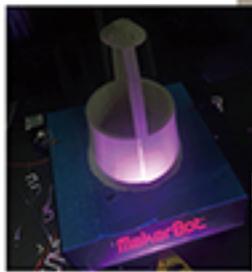
# Optimize Design



## Optimize the Concept Design

— Mountain .

1. Building 3D model with solidworks.
2. 3D print the model.
3. Using arduino to put a LED on it.
4. Plant a little succulent.
5. Evaluate the design.



## Optimize the Concept Design

TWIST .

1. Refer to the structure of lipstick and glue stick.
2. Design the structure of the Twist smart pot.
3. Calculate the specific size of the parts.



1. Using solidworks to build 3D model.
2. 3D print the model.
3. Testing the size.
4. Testing the structure.

