Future of cultivation by the Android

Smart Plant Factory

displayed at Droidcon London 2013

About Smart Plant Factory
Smart Plant Factory cultivates plants using hydroponics and artificial lighting in a completely controlled environment. Internally, it is equipped with Android OS which enables it to measure environmental information, record growth status, and control the environment through Android apps. There is an infrared touch panel and a transparent LCD in front of the Smart Plant factory. Users can check the environmental information and enter cultivation records while looking at the plants inside the machine. The recorded data is stored in the cloud so the plant's status can be checked on the go using a browser. Not only is it possible to check

Explanation of function about Smart Plant Factory

Measurement of environmental information
At temperatures, water temperatures, humidity, atmospheric pressure, CO2 density, and LED lighting can also be measured through various types of sensors that are installed within the plant factory. Measurement values are shown in a graph on the screen and are stored in the cloud.

Cultivation record
Comments and pictures taken by the internal cameras of the plant factory can be saved as a cultivation record. This information can even be posted on Facebook.

Environmental control
The internal environment factors of the plant factory, such as day length, light wavelength, water temperature (heated), and air flow, can all be controlled. These factors can be controlled not only through the screen in front of the unit, but also externally through a web browser.

Smart Plant Factory Mechanism

1. Ability of smart plant factory
Safe vegetables you can grow in your own home.

2. Checking plant status on the go.
Smart Plant Factory enables you to share images and various status on your mobile device via a network. You can see the appearance of your vegetables even when you’re on the go, so you won’t have to worry about worrying about vacations.

3. Controlling the status using a Smartphone or a tablet.
You can control various conditions necessary for growing vegetables inside the Smart Plant Factory, such as lighting, water temperature, and air flow, from your smartphone or tablet. You can work on the plant factory itself using a touch panel. You can also manage the environment through Android. You can even take the challenge of growing vegetables that are difficult to grow because you have complete control of the environment.

4. Sharing information on social networking sites.
As your vegetables grow, you can upload images and create posts of your work on social network sites to share with others. You may even be able to seek advice from experts when you encounter cultivation problems. You can enjoy growing vegetables with everybody as though it was a game.

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Explanation of function about Smart Plant Factory

Measurement of environmental information
At temperatures, water temperature, humidity, atmospheric pressure, CO2 density, and LED lighting can also be measured through various types of sensors that are installed within the plant factory. Measurements are shown in a graph on the screen and are stored to the cloud.

Cultivation record
Comments and pictures taken by the internal cameras of the plant factory can be saved as a cultivation record. This information can even be posted on Facebook.

Environmental control
The internal environmental factors of the plant factory, such as day length, light wavelength, water temperature, humidity, and air flow, can all be controlled. These factors can be controlled not only through the screen in front of the unit, but also externally through a web browser.

Smart Plant Factory Mechanism

1. Ability of smart plant factory
   - Safe vegetables you can grow in your own home.

   There is great concern over food safety nowadays. If you consider growing vegetables in your own Smart Plant Factory with Android to manage the various conditions, you can grown the "right taste" and "safety" that you are looking for.

2. Checking plant status on the go.
   - Smart Plant Factory enables you to share images and various status on your mobile device via a network. You can see the appearance of your vegetables even when you're away from home. You can also test them without worrying about going on vacation.

3. Controlling the status using a Smartphone or a Tablet.
   - You can control various conditions necessary for growing vegetables inside the Smart Plant Factory, such as lighting, water temperature, and air flow, right from your smartphone or tablet. You can work on the plant factory itself using a ten- to twenty-second control after checking the management through Android. You can even take care of the challenged growing vegetables that are difficult to grow because you have no completely

4. Sharing information on social networking sites.
   - As your vegetables grow, you can upload images and create posts of your work on social networking sites to share with everyone. You can even be able to seek advice from experts when you encounter cultivation problems. You can enjoy growing vegetables with everybody as thought it was a game.

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