Additional Attachment_3D Model and its function

118. Opening and closing support bar to assist in open/close operations

230. The support bar is designed to be rotatably connected to the **opening/closing unit**

300. Solar power unit that generates renewable energy through the connection of an adjustable solar panel (310)

120. The actuator adjusts solar panels or other movable parts automatically

316. Durable and adjustable panel mounting frame that secures solar panels to the system

140. Cooling sprinkler discharges assigned amount of water

116. Sloped panel surface to guide rainwater and provide optimal positioning for solar energy capture

200. Cover unit protects the cultivation space, including window (210) and LED grow lights along the inner edge

210. Transparent window to have access of internal view

310. The solar panel mounted at an adjustable angle

400. Control system that monitors and manages the entire smart farm system: recieves data, adjusts light, water flow, etc

110. Cultivation body that includes mounting areas for actuators and a sloped surface for rainwater collection. Houses the cultivation space.

430. Display panel that shows visible alerts of system status for easy monitoring

100. Main body provides entire structural supports

130. Water tank that collects and stores rainwater for irrigation.

440. Control switch allow manual backup control of the system's functions in case of connectivity issues with smartphones

424. Photoresistor measures light intensity levels in the cultivation space, ensuring sufficient illumination.

423. Air Quality sensor measures the air quality to maintain a healthy growth environment

170. The overall control unit, which includes features (430, 440). It has a sloped top surface for water drainage.

172. Rainwater blocking panel prevents liquid from entering the control switch area

150. Water supply unit filters and directs rainwater into the water tank (130)

422. Temperature and humidity sensors monitor and transmit data to ensure plant growth