Self-Watering (SW)

Ben Hadj Salem, Ziad

Self-Watering is a sytem that automatically waters a Plant depending on the humidity level in the surrounding soil. SW is basically composed of both an electronic and a Mechanical part. After linking it with a source of water, SW operates independently by maintaining a certain and precise humidity level pre-set by the user and adjusted to the plant's needs. SW does not need a considerable amount of electric power and can possibly operate with solar energy. SW is equipped with an electric circuit that functions as a humidity capter by translating humidity into electric resistance using a combination of measures prepared beforehand. An electronic circuit orders the system to shift between ON and OFF status. SW's core purpose is to effectively reduce water consumption using a system that is both cheap and holistically handmade from simple and easily obtained materials.

Awards Won:

King Abdulaziz &amp

his Companions Foundation for Giftedness and Creativity: First Award of $1,000