

Second Laureate Invention & Innovation



- Research Work Title: **Faraz Iranian Greenhouse**
- Researcher: **Hamid Amirseyedi**



Abstract:

Function of underground ventilation system and unique vertical vents of Iranian Faraz greenhouse originated of human old lifestyles and advance it to complete elimination of fossil fuels. For heating greenhouses in cold weather and reduce water and electricity consumption.

Energy consumption is important in the greenhouse. Billion rials saved annually through reduced fuel consumption .This greenhouse introduces future greenhouses. This innovation has unique features:

Designed without outlets, high greenhouse, greenhouse insulation and significantly reduce pesticide usage.

Circulation system with circulating the air uniforms distribution of temperature, humidity and carbon dioxide inside the greenhouse and it provides a suitable environment for products. It is one of underground ventilation system's features, in the case of necessity by closing vents to circulate the air inside the greenhouse and it leads to circulation and better access to carbon dioxide and decrease humidity levels to zero.

When the outside temperature is so much hot that ,greenhouse underground system is not able naturally to create the required temperature, another system is activated by creating cool and very pleasant weather using less than a quarter water and electricity consumption in fan and pad systems which makes the greenhouse several times cooler.

By Faraz underground cooling system the distribution of carbon dioxide system does not require any distribution network.

activated by creating cool and very pleasant weather using less than a quarter water and electricity consumption in fan and pad systems which makes the greenhouse several times cooler.

By Faraz underground cooling system the distribution of carbon dioxide system does not require any distribution network.

