

Carbon Enrichment through Foliar Spray

Industries for this invention

- Farmers growing plants in enclosed greenhouses
- Nurseries
- Fertilizer industry

Innovation Status

TRL 6
Integrated prototype system verified in relevant environment

Intellectual Property

PCT

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Invention

The invention relates to an apparatus for applying foliar spray and more specifically, but not exclusively, to an apparatus for applying a carbon rich foliar spray. The apparatus includes means for supplying water to the apparatus. The supply means is in a form of a water tank with pipe extending from the tank, through reverse osmosis water filtration unit, pump and valve.

Problem Solved

Carbon Dioxide (CO₂) is important for photosynthesis in plants and its concentration in the atmosphere is sub-optimal for plant growth. When dissolved CO₂ water is sprayed on leaves, plants can take in all the carbon their genetics allow for peak growth. Farmers growing plants in enclosed greenhouses often increase the concentration of CO₂ therein to provide closer to optimal concentrations for plant growth. Gaseous CO₂ has high costs associated with the preparation and, due to global carbon dioxide taxation and restriction, farmers may be restricted from using CO₂.

Application

A foliar spray fertilizer that is suitable for, agriculture, horticultural field crops and ornamentals.

Advantages/Value proposition

- Provides the benefits of providing a closer to optimal concentrations for plant growth without the need for using more gaseous carbon dioxide (CO₂).

