

CLAIMS

1. A planter which includes
a longitudinal body defining at least two longitudinally extending liquid channels; and
at least two plant holders defined in the body, the plant holders spaced on the outer
circumference of the longitudinal body, each one of the at least two plant holders
in fluid flow communication with one of the at least two longitudinally extending
liquid channels.
2. The planter as claimed in claim 1, in which the longitudinal body includes a longitudinal
conduit which is internally divided to define the at least two longitudinally extending liquid
channels.
3. The planter as claimed in claim 1, in which the at least two plant holders are located on
opposed sides of the longitudinal body, wherein each of the at least two longitudinally extending
liquid channels extends from an upper end of the longitudinal body.
4. The planter as claimed in claim 1, in which the at least two plant holders are alternatively
spaced on opposed sides over the length of the longitudinal body, and in which each of the plant
holders are in fluid flow communication with a different one of the longitudinally extending
liquid channels.
5. The planter as claimed in claim 1, in which the longitudinal body includes connecting
formations at the ends of the longitudinal body, the connecting formations are shaped and
dimensioned to fit into corresponding connection formations of corresponding planters, and the
connecting formations include:
liquid channel connecting formations for connecting the liquid channels of adjacent
planter bodies together; or
gas channel connecting formations for connecting the gas channels of adjacent planter
bodies together.

18. The hydroponic greenhouse as claimed in claim 17, in which gas outlets of the planters, are directed to the outsides of the planter bodies, the gas outlets being directed at plants in an adjacent planter tower.

19. The hydroponic greenhouse as claimed in claim 17, in which the greenhouse includes a partially closed enclosure, which is provided with any one or more of: air conditioners, high pressure fans, dampers, coiled coolers for recirculation of the liquid or gas from the liquid collection lines to the liquid supply lines or alternatively gas supply lines, geothermal heater/coolers, heat pumps, humidity controllers and infra-red controllers.

20. The hydroponic greenhouse as claimed in claim 17, in which the greenhouse is provided with a nutrient supply dosing pump connected to the liquid circulation system for dosing nutrients into the liquid circulation system or is provided with a filtering arrangement connected to the liquid circulation system for filtering the liquid in the liquid circulation system.