CLAIMS

1. A hydroponic tray for agricultural use, the tray comprising:

an inlet end for the ingress of fluid and an outlet end for the egress of fluid;

a trough extending continuously between the inlet end and the outlet end along which, in use, the fluid flows; and

at least one fluid regulator device extending transversely across the trough, and comprising a sluice panel integrated with a control panel;

wherein the control panel is formed with one or more grooves;

wherein the sluice panel sits along the trough and supports the control panel hinged thereto in an inclined manner as the control panel is manipulated to rotate relative to the sluice panel at an angle to vary a rate of fluid flow after fluid flows through the sluice panel.

2. The hydroponic tray according to claim 1 or 2, wherein the sluice panel is formed with an undercut.

3. The hydroponic tray according to claim 2, wherein the width of the undercut is relatively wider than the grooves.

4. The hydroponic tray according to claim 3, further comprising one or more cultivating pot arranged in a side-by-side manner along the trough.

5. The hydroponic tray according to claim 4, wherein the pot has a non-circular top, a substantially circular base bottom and slanted sidewalls connecting between the top and bottom.

6. The hydroponic tray according to claim 5, wherein the sidewalls are configured with one or more vertically-aligned slits.

7. The hydroponic tray according to claim 1, further comprising one or more filter device located along the trough for collecting particulate matter carried from the inlet to the outlet end.

8. The hydroponic tray according to claim 7, wherein the filter device comprises a perforated casing having an open end and two baffles at each side of the open end so as to guide fluid flowing into the casing.

9. A kit of parts for assembly to provide a hydroponic tray for agricultural use, the kit comprising:

a tray having an inlet end for the ingress of fluid and an outlet end for the egress of fluid;

a trough extending continuously between the inlet end and the outlet end along which, in use, the fluid flows;

at least one fluid regulator device extending transversely across the trough, and comprising a sluice panel integrated with a control panel;

one or more containers to be disposed in the tray for growing plants therein; and

a filter device for location in the trough to trap particulate matter carried by the fluid;

wherein the control panel is formed with one or more grooves;

wherein the sluice panel sits along the trough and supports the control panel hinged thereto in an inclined manner as the control panel is manipulated to rotate relative to the sluice panel at an angle to vary a rate of fluid flow after fluid flows through the sluice panel.