

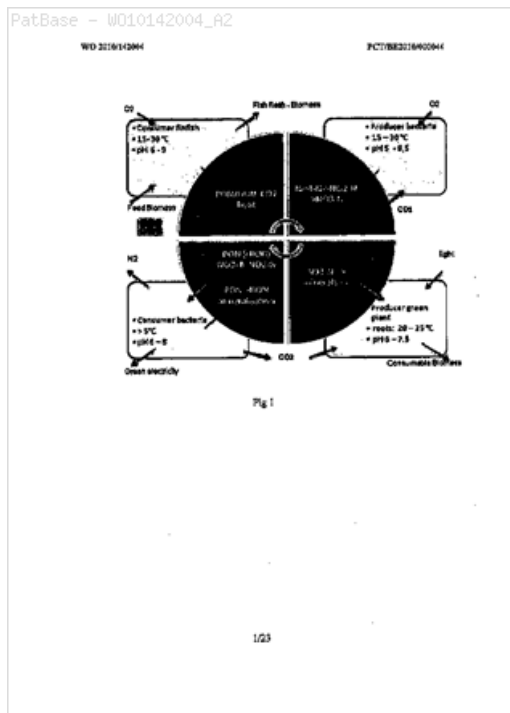
Search 1: FT=(Reactor* and pipe* and dehydration* and waste* and solid* and oxygen* and nitrogen* and methane* and sensor* and temperature* and humidity* and battery* and PLC*) (Results 0)

Search 2: FT=(Reactor* and pipe* and dehydration* and waste* and solid* and oxygen* and nitrogen* and methane* and sensor* and temperature* and humidity*) (Results 0)

Search 3: FT=(Reactor* and dehydration* and waste* and oxygen* and nitrogen* and methane* and sensor* and temperature* and humidity*) (Results 1)

Abstract: The present invention relates generally to improving the bio security and the stability of intensive recirculating aquatic farming systems for instance by hard and soft sensing and control of the pH and alkalinity in an aquatic farming system and in response thereto optimal pH and alkalinity normalisation and nitrogen removal. This control is aimed at reduce toxicity in particular nitrogen toxicity on the living organism and at preventing biosystem collapse. Yet more particularly the invention concerns a control system to restore the biosystem' s homeostasis of intense recirculating aquatic farming systems. The system of present invention to control the pH is particularly suitable for an aquatic farming system that needs a normo-pH suitable for the integration intensive recirculating farming of aquatic animals with the farming of soilless hydroponics crop farming. The present invention relates generally to a controlled farming system for energy efficient farming in a confined space that is monitored and controlled by a hard and soft sensing system whereby the controlled farming system comprises reactors and storage containers, which are interconnected and/or are communicating with the confined space, which comprises the farming system. In particular embodiment the energy, biomass and molecule flows in the internal environment of the reactors, the storage containers and the confined space comprising the reactors and storage containers are controlled for energy efficient farming of aquatic organisms and crops and the minimal waste of energy and material in the external environment. More particularly the present invention concerns a system and method for farming of crops and aquatic animals with improved control of the systems components for optimal use of the biomass and energy input and less energy and biomass waste output.

International (IPC 8-9): A01K63/04 C12M1/00 (Advanced/Invention)
CPC: A01K63/04 C12M21/04 C12M23/58 Y02E50/343 C12M29/12
European: A01K63/04



Publication number	Publication date	Application number	Application date
GB200910007 A0	20090722	GB20090010007	20090610
GB200910178 A0	20090729	GB20090010178	20090615
GB200915161 A0	20091007	GB20090015161	20090831
WO10142004 A2	20101216	WO2010BE00044	20100611
WO10142004 A3	20110707	WO2010BE00044	20100611
WO10142004 A8	20111124	WO2010BE00044	20100611

GB20090010007	20090610	GB20090010178	20090615	GB20090011415	20090702
GB20090013882	20090810	US20090273869P	20090810	GB20090015161	20090831
GB20090015161	20090901				

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW