

Title (en)
INTERLOCKING RAFT FOR DEEPWATER CULTURE HYDROPONICS

Title (de)
INEINANDERGREIFENDE INSEL FÜR TIEFWASSERHYDROKULTUR

Title (fr)
RADEAU À IMBRICATION POUR CULTURE HYDROPONIQUE EN EAU PROFONDE

Publication
EP 3182819 A4 20180530 (EN)

Application
EP 14899935 A 20141119

Priority
• US 201462040311 P 20140821
• US 2014066377 W 20141119

Abstract (en)
[origin: WO2016028329A1] Embodiments of a hydroponic growing system include raft segments that can be reversibly attached together to form a raft. Rafts can have one or more plant holes to support a plant body, and one or more thermal chimneys to provide for gas transport from underneath the raft to the upper surface, to control temperature and humidity of the plant. Additional embodiments include wireless sensors that may or may not be part of a raft, and a growing environment control system that can receive data from one or more sensors of environmental conditions of a plant and in other embodiments, can detect discrepancies between the actual environmental conditions and desired conditions. In still further embodiments, a growing environment control system can automatically adjust an actuator to return an environmental condition to a desired state.

IPC 8 full level
A01G 31/06 (2006.01); **A01G 31/02** (2006.01); **G06Q 30/00** (2012.01)

CPC (source: EP)
A01G 31/02 (2013.01); **Y02P 60/21** (2015.11)

Citation (search report)
• [Y] US 4037360 A 19770726 - FARNSWORTH ROBERT S
• [Y] US 4513533 A 19850430 - GETHING FRANK [US], et al
• [YA] US 5287652 A 19940222 - DELP REINARD C [US]
• [A] WO 2009066991 A2 20090528 - MIMOS BERHAD [MY], et al
• [YA] US 2009223128 A1 20090910 - KUSCHAK BRIAN C [US]
• [A] US 2012054061 A1 20120301 - FOK PHILIP E [US], et al
• See references of WO 2016028329A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2016028329 A1 20160225; CN 106659135 A 20170510; EP 3182819 A1 20170628; EP 3182819 A4 20180530; JP 2017525392 A 20170907

DOCDB simple family (application)
US 2014066377 W 20141119; CN 201480081352 A 20141119; EP 14899935 A 20141119; JP 2017529967 A 20141119