

Title (en)  
TRIPLE DRAIN APPARATUS FOR AN AQUACULTURE RECIRCULATION SYSTEM

Title (de)  
DREIFACHABFLUSS FÜR AQUAKULTURKREISLAUFSYSTEM

Title (fr)  
APPAREIL D'ÉVACUATION TRIPLE POUR UN SYSTÈME DE RE-CIRCULATION D'AQUACULTURE

Publication  
**EP 2442639 A4 20131204 (EN)**

Application  
**EP 09845957 A 20090617**

Priority  
CA 2009000844 W 20090617

Abstract (en)  
[origin: WO2010144990A1] Triple drain apparatus for an aquaculture system tank for reducing water input requirements and minimizing breakdown of solids whereby the solids are larger and more concentrated when removed from a solids settling device. Water flow is split by the apparatus into a side box fluid stream which flows into a side box coupled to the tank, and both a clean fluid stream and a high solids fluid stream which flow into a center drain. The center drain comprises a central stand pipe coupled to a clean water outlet, a sump coupled to a high solids fluid outlet and a collection plate separating the tank and the sump. The center drain may include a mortality trap coupled to a mortality outlet and the sump, whereby the collection plate separates the mortality trap from the sump, to provide means for easily removing dead fishes and large debris from the tank.

IPC 8 full level  
**A01K 63/04** (2006.01); **A01K 63/00** (2017.01)

CPC (source: EP US)  
**A01K 63/00** (2013.01 - EP); **A01K 63/04** (2013.01 - EP US); **A01K 63/045** (2013.01 - EP US)

Citation (search report)

- [A] US 5593574 A 19970114 - VANTOEVER J WAYNE [CA]
- [A] US 3884186 A 19750520 - HICKEY WILLIAM P
- [A] GB 1594831 A 19810805 - GOODSON M G
- [A] WO 9738573 A1 19971023 - MERRIAM RESEARCH [US], et al
- See also references of WO 2010144990A1

Designated contracting state (EPC)  
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 SE SI SK TR

DOCDB simple family (publication)  
**WO 2010144990 A1 20101223**; CA 2763722 A1 20101223; CA 2763722 C 20160503; CL 2011003194 A1 20121012; CN 102802407 A 20121128; EP 2442639 A1 20120425; EP 2442639 A4 20131204; US 2012125940 A1 20120524

DOCDB simple family (application)  
**CA 2009000844 W 20090617**; CA 2763722 A 20090617; CL 2011003194 A 20111216; CN 200980159967 A 20090617; EP 09845957 A 20090617; US 200913322736 A 20090617