

Title (en)
MICROORGANISM FILTER

Title (de)
MIKROORGANISMUSFILTER

Title (fr)
FILTRE MICRO-ORGANISME

Publication
EP 3361862 A4 20190619 (EN)

Application
EP 15906202 A 20151218

Priority
• CN 201510654555 A 20151013
• CN 201520784998 U 20151013
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Abstract (en)
[origin: WO2017064542A1] A microorganism filter device for a fishpond and a filtering method thereof. The device comprises a first chamber, a first filtering material(7) provided in the first chamber, a water inlet(4) into the first chamber, a second chamber separated from the first chamber, a plurality of water channels(6) connecting the first chamber and the second chamber, a second filtering material(8) provided in the second chamber, and a water outlet(5) leaving the second chamber, wherein the first filtering material (7) and the second filtering material(8) are provided as a plurality of filler column and filler lumps respectively. Nitrification and reverse nitrification processes by the filtering media in the first filtering material(7) and the second filtering material(8), and then nitrogen is discharged into the air and the harmless nitrate is discharged back to the pond. The device has greater industrial application value.

IPC 8 full level
A01K 63/04 (2006.01); **C02F 9/14** (2006.01)

CPC (source: EP)
A01K 63/04 (2013.01); **A01K 63/045** (2013.01); **C02F 3/1273** (2013.01); **Y02W 10/10** (2015.05)

Citation (search report)
• [XYI] CN 203934517 U 20141112 - HE BIN
• [Y] CN 203540156 U 20140416 - SUZHOU KINGTO WATER TREAT CO LTD
• [A] DE 102012104438 B3 20130725 - EASYCLEAN GBR VERTRETEN DURCH DIE GESELLSCHAFTER DIRK MUELLER [DE]
• See references of WO 2017064542A1

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

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WO 2017064542 A1 20170420; EP 3361862 A1 20180822; EP 3361862 A4 20190619

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