

Title (en)  
SYSTEM INTENDED FOR PURIFICATION OF CONTAMINATED WATER BY PHYTOREMEDIATION

Title (de)  
SYSTEM ZUR REINIGUNG VON KONTAMINIERTEM WASSER DURCH PHYTOSANIERUNG

Title (fr)  
SYSTÈME DESTINÉ À LA PURIFICATION D'EAU CONTAMINÉE PAR PHYTOREMÉDIATION

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Application  
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Abstract (en)  
[origin: WO2020027715A1] The present invention describes a system intended for purification of contaminated water, said system comprising - a filter unit; - a filter substrate; - a plant growth environment with access to a water source intended to be purified via phytoremediation; wherein the filter unit is a horizontal filter unit, and wherein the system comprises a recirculation loop.

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Citation (search report)  
• [X] US 2015041379 A1 20150212 - KENT ZACHARIA [US]  
• [X] KR 100459503 B1 20041203 - KOREA AGRICULTURAL & RURAL INFRASTRUCTURE CORP, et al  
• [X] LI YIFEI ET AL: "A review on removing pharmaceutical contaminants from wastewater by constructed wetlands: Design, performance and mechanism", SCIENCE OF THE TOTAL ENVIRONMENT, vol. 468, 1 October 2013 (2013-10-01), pages 908 - 932, XP028795164, ISSN: 0048-9697, DOI: 10.1016/J.SCITOTENV.2013.09.018  
• [T] JAVAHERI-TEHRANI MOHSEN ET AL: "Treatment of domestic wastewater using the combination of porous concrete and phytoremediation for irrigation", PADDY AND WATER ENVIRONMENT, SPRINGER JAPAN, TOKYO, vol. 18, no. 4, 15 August 2020 (2020-08-15), pages 729 - 742, XP037257299, ISSN: 1611-2490, [retrieved on 20200815], DOI: 10.1007/S10333-020-00814-7  
• See also references of WO 2020027715A1

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