

Title (en)  
System for storing and purifying water

Title (de)  
Wasserspeicherndes und wasserreinigendes System

Title (fr)  
Système stockant et nettoyant de l'eau

Publication  
**EP 2402514 A2 20120104 (DE)**

Application  
**EP 11183031 A 20071109**

Priority  
EP 07120361 A 20071109

Abstract (en)  
Water storing and purifying system comprises: a reservoir (2), which is at least partially filled with a porous material (3); at least one barrier layer (5) for extending the seepage of water, where the barrier layer is arranged inside the water impermeable, artificial and externally delimited reservoir; and (ii) a water collection tray, which extends from the bottom of the reservoir up to its surface, where the water collection container has an opening above the top barrier layer and at least one opening below the lowest barrier layer, through which water can flow. Water storing and purifying system comprises: a reservoir (2), which is at least partially filled with a porous material (3); at least one barrier layer (5) for extending the seepage of water, where the barrier layer is arranged inside the water impermeable, artificial and externally delimited reservoir, and the barrier layer is provided with at least one passage (6) for water, and located above and below the barrier layer porous material; and (ii) a water collection tray, which extends from the bottom of the reservoir up to its surface, where the water collection container has an opening above the top barrier layer and at least one opening below the lowest barrier layer, through which water can flow.

Abstract (de)  
Die vorliegende Erfindung betrifft ein wasserspeicherndes und wasserreinigendes System. Dieses System ist derart ausgebildet, dass es ortsunabhängig eingesetzt werden kann. Es findet unter anderem Anwendung in der Landwirtschaft, im Gartenbau und bei der Wiederaufforstung. Das System weist dazu ein mit porösen Material (3) gefülltes Reservoir (2) auf, in dem das Wasser versichert wird. Zur Verlängerung des Sickerweges enthält das Reservoir (2) mindestens eine Barrierenschicht (5) aus wasserdurchlässigen Material, das zwei Schichten aus porösen Material (3) trennt und einem Durchlass (6) zur Verbindung der Schichten aufweist.

IPC 8 full level  
**E03B 3/00** (2006.01); **C02F 3/04** (2006.01); **E03F 1/00** (2006.01); **E21B 43/02** (2006.01)

CPC (source: EP US)  
**E03B 3/00** (2013.01 - EP US); **E03F 1/00** (2013.01 - EP US)

Citation (applicant)  
• US 6120210 A 20000919 - HSU KENNETH J [CH]  
• WO 2005123597 A1 20051229 - HSU KENNETH J [GB]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

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**EP 2058441 A1 20090513**; **EP 2058441 B1 20121010**; AU 2008324373 A1 20090514; AU 2008324373 B2 20120412; BR PI0820182 A2 20190924; CN 101855407 A 20101006; CN 101855407 B 20130327; CY 1113638 T1 20160622; DK 2058441 T3 20121217; EP 2402514 A2 20120104; EP 2402514 A3 20120314; ES 2392993 T3 20121217; IL 205519 A0 20101230; IL 205519 A 20140430; PL 2058441 T3 20130329; PT 2058441 E 20121113; SI 2058441 T1 20130228; US 2011017648 A1 20110127; US 8449219 B2 20130528; WO 2009059794 A1 20090514; ZA 201002503 B 20110629

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**EP 07120361 A 20071109**; AU 2008324373 A 20081110; BR PI0820182 A 20081110; CN 200880115378 A 20081110; CY 121101147 T 20121127; DK 07120361 T 20071109; EP 11183031 A 20071109; EP 2008009461 W 20081110; ES 07120361 T 20071109; IL 20551910 A 20100503; PL 07120361 T 20071109; PT 07120361 T 20071109; SI 200731121 T 20071109; US 74034208 A 20081110; ZA 201002503 A 20100409