

Title (en)  
SYSTEM FOR EXCHANGING ENERGY WITH A GROUND

Title (de)  
SYSTEM ZUM AUSTAUSCH VON ENERGIE MIT EINEM BODEN

Title (fr)  
SYSTEME D'ECHANGE D'ENERGIE AVEC UN SOL

Publication  
**EP 2356310 A4 20140813 (EN)**

Application  
**EP 09825052 A 20090618**

Priority  
• SE 2009050774 W 20090618  
• SE 0802373 A 20081110

Abstract (en)  
[origin: WO2010053424A1] The present invention relates to a system for exchanging energy with a ground. It comprises an elongate ground bore (2), a flexible sealing device (1) for separating sections of said bore (2) and extending inside and generally all along said bore (2) and being closed at its ends, wherein said sealing device (1) in use is filled with a liquid (20) whereby said sealing device (1) is pressed against walls of said bore (1). The system further comprises at least a first duct (5, 6), and heat recovery means, wherein said first duct (5, 6) is operatively connected to said heat recovery means and extending into said sealing device (1). Sealing means (70, 80) are provided at said flexible sealing device (1) at a predefined level along said bore (2), which sealing means (70, 80) are adapted to seal at said level between said sealing device (1) and said bore (2).

IPC 8 full level  
**E21B 33/10** (2006.01); **E21B 33/138** (2006.01); **E21B 43/10** (2006.01); **F24J 3/08** (2006.01)

CPC (source: EP US)  
**E21B 33/138** (2013.01 - EP US); **E21B 43/103** (2013.01 - EP US); **F24T 10/10** (2018.04 - EP US); **F24T 10/17** (2018.04 - EP US); **F24T 10/30** (2018.04 - EP US); **Y02E 10/10** (2013.01 - EP US)

Citation (search report)  
• [XDYI] WO 2006126925 A1 20061130 - PEMTEC AB [SE], et al  
• [Y] JP S6093260 A 19850525 - KOGYO GIJUTSUIN  
• [A] WO 2006020726 A2 20060223 - ENVENTURE GLOBAL TECHNOLOGY [US], et al  
• [A] GB 2414495 A 20051130 - WEATHERFORD LAMB [US]  
• See references of WO 2010053424A1

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 2010053424 A1 20100514**; EP 2356310 A1 20110817; EP 2356310 A4 20140813; US 2011265989 A1 20111103;  
WO 2010147549 A1 20101223

DOCDB simple family (application)  
**SE 2009050774 W 20090618**; EP 09825052 A 20090618; SE 2010050692 W 20100618; US 99859109 A 20090618