

Title (en)  
ENCASEMENT ASSEMBLY FOR INSTALLATION OF SUB-SURFACE REFRIGERANT TUBING IN A DIRECT EXCHANGE HEATING/COOLING SYSTEM

Title (de)  
GEHÄUSEANORDNUNG ZUR INSTALLATION EINER UNTERIRDISCHEN KÄLTEMITTELROHRLEITUNG IN EINEM HEIZ-/KÜHLSYSTEM MIT DIREKTEM AUSTAUSCH

Title (fr)  
ENSEMBLE FORMANT UNE ENVELOPPE PERMETTANT L'INSTALLATION DE TUBAGE RÉFRIGÉRANT DE SUB-SURFACE DANS UN SYSTÈME DE CHAUFFAGE / REFROIDISSEMENT À ÉCHANGE DIRECT

Publication  
**EP 2076720 A4 20131127 (EN)**

Application  
**EP 06815890 A 20060929**

Priority  
US 2006038220 W 20060929

Abstract (en)  
[origin: WO2008039202A1] An encasement assembly (1) for installing sub-surface refrigerant tubing in a direct exchange heating/cooling system includes a weighted and protective encasement tube (2) for lowering the bottom distal U-bend portion (8) of the refrigerant tubing into a well/borehole (21). The encasement tube (2) has a main body portion and a rounded or cone-shaped nose. The U-bend portion of the distal end of the refrigerant transport lines (5, 6) is encased within a cementitious grout (15) inside the tube (2). The grout (15) inside the encasement tube (2) has a flat top portion to prevent upward flotation and at least one eyebolt (11) for securing a trimmie tube (14) with an expendable wire (19) during installation. An optional nose ring (34) is attached to the lower distal end of the tube (2) for marker float (39) attachment in water.

IPC 8 full level  
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CPC (source: EP KR)  
**F24T 10/15** (2018.04 - EP); **F25B 30/06** (2013.01 - EP KR); **F24T 2010/53** (2018.04 - EP); **Y02E 10/10** (2013.01 - EP)

Citation (search report)

- [XII] US 6789608 B1 20040914 - WIGGS B RYLAND [US]
- [XDI] US 5816314 A 19981006 - WIGGS B RYLAND [US], et al
- [A] US 5758724 A 19980602 - AMERMAN THOMAS R [US]
- See references of WO 2008039202A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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