

Title (en)

PROBE FOR COLLECTING THERMAL ENERGY FROM THE GROUND FOR A HEAT PUMP, AND COLLECTING NETWORK EQUIPPED WITH PROBES OF THIS TYPE

Title (de)

SONDEN ZUM AUFFANGEN VON WÄRMEENERGIE VOM BODEN FÜR EINE HEIZPUMPE UND MIT SONDEN DIESER ART AUSGESTATTETES AUFFANGNETZ

Title (fr)

SONDE DE CAPTAGE DE L'ENERGIE THERMIQUE DU SOL POUR POMPE A CHALEUR, ET RESEAU DE CAPTAGE MUNI DE TELLES SONDES

Publication

**EP 1872067 A1 20080102 (FR)**

Application

**EP 06755427 A 20060420**

Priority

- FR 2006000863 W 20060420
- FR 0503999 A 20050421

Abstract (en)

[origin: WO2006111655A1] This probe (10) comprises a heat-carrying fluid circulating circuit with a fluid inlet (28) and a fluid outlet (34) that are connected to a heat pump. This circuit comprises at least two parallelly extending tubes (12, 14) of which one is a fluid admission tube (14) and the other is a fluid return tube (12), these tubes being placed in communication (24) with one another at their distal ends (18, 22). These tubes are provided with a common wall over their entire length. The assembly forms a tubular element that can be buried only with a free distal end. The return tube is provided with inner reliefs (44) capable of creating turbulences in the fluid circulating inside this tube whereas the inner wall of the fluid admission tube is smooth for favoring a laminar flow of the fluid circulating therein.

IPC 8 full level

**F24J 3/08** (2006.01)

CPC (source: EP US)

**F24T 10/15** (2018.04 - EP US); **F24T 10/17** (2018.04 - EP US); **F28F 13/12** (2013.01 - EP US); **Y02E 10/10** (2013.01 - EP US)

Citation (search report)

See references of WO 2006111655A1

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