

Title (en)

Method and system for freezing a portion of ground

Title (de)

Verfahren und System zum Einfrieren einer Bodenportion

Title (fr)

Procédé et système de congélation d'une partie de sol

Publication

EP 2690222 B2 20201230 (EN)

Application

EP 13177293 A 20130719

Priority

IT MI20121284 A 20120724

Abstract (en)

[origin: EP2690222A1] A system for freezing a portion of ground comprises at least one probe having at least one end insertable in the ground to be frozen and having at least one lateral wall, and means for supplying a cryogenic liquefied gas connected to the probe so as to supply the cryogenic liquefied gas to the same probe, said supply means comprising a device for dispensing said cryogenic liquefied gas placed on the inside of the probe, the dispensing device being spaced from said end insertable in the ground in such a manner as to spray said gas directly onto said lateral wall of said probe.

IPC 8 full level

E02D 3/115 (2006.01); **E02D 19/14** (2006.01)

CPC (source: EP)

E02D 3/115 (2013.01); **E02D 19/14** (2013.01)

Citation (opposition)

Opponent :

- DE 2651117 A1 19780518 - LINDE AG
- DE 3112291 A1 19821007 - LINDE AG [DE]
- CN 201031387 Y 20080305 - SHANGHAI SUBWAY TRANSP BUSINES [CN]

Cited by

EP3441529A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2690222 A1 20140129; **EP 2690222 B1 20170830**; **EP 2690222 B2 20201230**; ES 2643515 T3 20171123; IT MI20121284 A1 20140125

DOCDB simple family (application)

EP 13177293 A 20130719; ES 13177293 T 20130719; IT MI20121284 A 20120724