

(12) International Application Status Report

Received at International Bureau: 07 October 2015 (07.10.2015)

Information valid as of: 26 October 2016 (26.10.2016)

Report generated on: 29 August
2017 (29.08.2017)

(10) Publication number:
WO 2016/050920

(43) Publication date:
07 April 2016 (07.04.2016)

(26) Publication language:
English (EN)

(21) Application number:
PCT/EP2015/072714

(22) Filing date:
01 October 2015 (01.10.2015)

(25) Filing language:
English (EN)

(31) Priority number(s):
14425121.2 (EP)

(32) Priority date(s):
03 October 2014 (03.10.2014)

(33) Priority status:
Priority document received (in compliance
with PCT Rule 17.1)

(51) International Patent Classification:
E01C 13/02 (2006.01); E01C 13/08 (2006.01)

(71) Applicant(s):

LAVANGA, Vito [IT/IT]; Via Terrazzano, 85 1-20017 RHO, MILANO (IT) (for all designated states)

(72) Inventor(s):

LAVANGA, Vito; Via Terrazzano, 85 1-20017 RHO, MILANO (IT)
SPARACINO, Antonio; c/o ESAE S.r.l. Via Fogagnolo, 11 I-20099 Sesto San Giovanni, Milano (IT)

(74) Agent(s):

LONG, Giorgio; c/o Jacobacci & Partners S.p.A. Via Senato, 8 20121 Milano (IT)

(54) Title (EN): IRRIGATION, DRAINING AND/OR HEATING SYSTEM OF A SURFACE AND METHOD FOR HEATING A SURFACE

(54) Title (FR): SYSTÈME D'IRRIGATION, DE DRAINAGE ET/OU DE CHAUFFAGE D'UNE SURFACE ET PROCÉDÉ DE CHAUFFAGE DE SURFACE

(57) Abstract:

(EN): An irrigation, draining and/or heating system of a surface, comprising: a tank (215) defined by a water-proofing sheath (214) housed in an excavation in the ground; a water grid (201) located inside said tank (215), comprising at least one inlet module (202) and at least one outlet module (203); an outer water reservoir; one or more inlet (260) and outlet (261) connections, connecting said water grid (201) to said outer water reservoir; and a draining soil to fill said tank; wherein each of said at least two modules comprises an impermeable main pipe (204) from which a series of permeable conduits (205) emerges, where said conduits lie on the same horizontal plane of said main pipe. And a method for heating a surface.

(FR): L'invention concerne un système d'irrigation, de drainage et/ou de chauffage d'une surface, comprenant : un réservoir (215) délimité par une gaine étanche à l'eau (214), logé dans une excavation dans le sol ; un réseau de distribution d'eau (201) situé à l'intérieur dudit réservoir (215), comportant au moins un module d'entrée (202) et au moins un module de sortie (203) ; un réservoir d'eau externe ; un ou plusieurs raccordements d'entrée (260) et de sortie (261), reliant ledit réseau de distribution d'eau (201) audit réservoir d'eau externe ; un sol de drainage pour remplir ledit réservoir ; chacun desdits deux ou plus de deux modules comportant un tuyau principal imperméable (204) duquel sort une série de conduites perméables (205), lesdites conduites se trouvant sur le même plan horizontal dudit tuyau principal. L'invention concerne également un procédé pour chauffer une surface.

International search report:

Received at International Bureau: 01 December 2015 (01.12.2015) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM