

Title (en)
MULTI-BRANCHED REGENERATING WETTING AGENTS FOR TREATING SANDY SOILS FOR LONG-TERM REDUCTION OF WATER REPELLENCY

Title (de)
MEHRFACH VERZWEIGTE REGENERIERENDE NETZMITTEL ZUR BEHANDLUNG VON SANDIGEN BÖDEN ZUR LANGFRISTIGEN VERRINGERUNG DES WASSERABWEISUNGSVERMÖGENS

Title (fr)
AGENTS MOUILLANTS DE REGENERATION A RAMIFICATIONS MULTIPLES POUR TRAITER DES SOLS SABLEUX POUR UNE REDUCTION A LONG TERME D'HYDROREJETS

Publication
EP 1633181 A4 20070905 (EN)

Application
EP 04753432 A 20040526

Priority

- US 2004016603 W 20040526
- US 46179903 A 20030613
- US 46115804 A 20040217

Abstract (en)
[origin: WO2005000944A2] Certain novel formulations of turf additives that act in such a manner as to permit proper amounts of moisture to contact root systems in order to reduce dry spots within highly managed turf areas and/or lawns. The inventive formulation comprising multi-branched surfactant compounds with both hydrophobic and hydrophilic constituents within each branch attached to an oxygen-containing polyfunctional base compound permits effective moisture penetration through such localized dry spots for sustained grass growth therein. Importantly, such multi-branched wetting agents provide sustained moisture penetration over a sustained period of time since the individual branches of such compounds may become dissociated from its base polyfunctional compound. Since such branches include both hydrophobic and hydrophilic constituents themselves, and thus act as wetting agents, even after degradation of the initial surfactant compound, long-term wetting and moisture penetration, at least, are permitted. Methods of treating sandy soils with such compounds and formulations thereof are also contemplated within this invention.

IPC 8 full level
A01B 79/02 (2006.01); **A01G 1/00** (2006.01); **C09K 17/14** (2006.01); **C09K 17/16** (2006.01); **C09K 17/18** (2006.01)

CPC (source: EP US)
A01G 20/00 (2018.01 - EP US); **C09K 17/14** (2013.01 - EP); **C09K 17/16** (2013.01 - EP); **C09K 17/18** (2013.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2005000944A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005000944 A2 20050106; WO 2005000944 A3 20051215; AU 2004251157 A1 20050106; CA 2520873 A1 20050106; EP 1633181 A2 20060315; EP 1633181 A4 20070905

DOCDB simple family (application)
US 2004016603 W 20040526; AU 2004251157 A 20040526; CA 2520873 A 20040526; EP 04753432 A 20040526