

Title (en)

OSCILLATION CONTROL DEVICE FOR A ROTATING JET SPRINKLER AND SPRINKLER INCLUDING SUCH DEVICE

Title (de)

VORRICHTUNG ZUR KONTROLLE DER SCHWINGBEWEGUNG EINES WASSERSPRENGLERS UND WASSERSPRENGLER MIT EINER SOLCHEN VORRICHTUNG

Title (fr)

DISPOSITIF DE CONTRÔLE DE L'OSCILLATION D'UN ARROSEUR ROTATIF ET ARROSEUR ROTATIF MUNI D'UN TEL DISPOSITIF

Publication

EP 3153238 A1 20170412 (EN)

Application

EP 16192353 A 20161005

Priority

IT UB20154109 A 20151006

Abstract (en)

A device (1) for controlling the oscillation of a rotating jet sprinkler (2), having a barrel (5) which is rotatably mounted to a stationary base (3) to swing about a substantially vertical axis (T), such device (1) comprising an reversing mechanism (6) interacting with at least one limit stop member (7,8) adapted to be secured to the stationary base (3) to reverse the direction of rotation of the barrel (5), at least one movable abutment member (11) adapted to be secured to the base (3) in a predetermined angular position to selectively interact with the mechanism (6) and form corresponding oscillation angles (\pm , \pm') with the limit stop member (7,8), drive means (33) operably associated with the movable abutment member (11) to promote movement thereof between an active position in which such member interacts with the mechanism (6) and an inactive position in which such abutment member (11) does not interact with the mechanism (6). The movable abutment member (11) is swiveling in a substantially vertical plane (A) and is at least partially made of a ferromagnetic material, the movement means (33) comprising at least one electromagnetic actuator (35) which is designed to generate an electromagnetic force (F) acting on the movable abutment member (11) and to promote unidirectional movement thereof from the active position to the inactive position.

IPC 8 full level

B05B 3/04 (2006.01); **B05B 3/16** (2006.01)

CPC (source: EP)

B05B 3/0477 (2013.01); **B05B 3/16** (2013.01)

Citation (applicant)

- US 7051952 B2 20060530 - DRECHSEL ARNO [AT]
- IT MO20110283 A1 20130508 - SIME IDROMECCANICA S R L

Citation (search report)

- [Y] US 2674492 A 19540406 - MICHELE SCIUTO
- [Y] FR 2782890 A1 20000310 - PERROT SA [FR]
- [A] IT MO20110282 A1 20130508 - SIME IDROMECCANICA S R L
- [A] US 2008179421 A1 20080731 - NELSON CRAIG B [US], et al
- [A] EP 2060167 A2 20090520 - IRRIMEC S R L [IT]
- [A] WO 02081099 A1 20021017 - NELSON IRRIGATION CORP [US]
- [A] US 3883073 A 19750513 - BALLU VINCENT PIERRE MARIE
- [A] US 2014014739 A1 20140116 - HUANG TZU-LIN [TW]
- [A] DE 102008033508 A1 20100114 - GARDENA MFG GMBH [DE]
- [A] SIME-IDROMECCANICA S R L: "Rotorkit - Mechanical timered devices for automatic reversal of the irrigation direction", INTERNET CITATION, 4 July 2012 (2012-07-04), pages 1 - 2, XP002682782, Retrieved from the Internet <URL:http://www.sime-sprinklers.com/pdf/LG/13%20Rotorkit.pdf> [retrieved on 20120904]

Cited by

EP3421137A1; IT201700073460A1; US11090671B2; EP3769848A1; EP3912729A1

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

Designated extension state (EPC)

BA ME

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