Title (en)

METHOD OF, AND DEVICE AND SYSTEM FOR, MONITORING SOIL MOISTURE CONTENT

Title (de)

VERFAHREN, VORRICHTUNG UND SYSTEM ZUM ÜBERWACHEN DES BODENFEUCHTIGKEIT GEHALTES

Title (fr)

TECHNIQUE DE CONTROLE DU DEGRE D'HUMIDITE D'UN SOL, DISPOSITIF ET SYSTEME CORRESPONDANTS

Publication

EP 1062506 A2 20001227 (EN)

Application

EP 99958362 A 19991203

Priority

- GB 9904054 W 19991203
- GB 9826465 A 19981203

Abstract (en)

[origin: GB2344422A] A method of monitoring the moisture content of soil comprises measuring a first property of soil (e.g. electrical conductivity) which varies with moisture content, measuring a second property of soil (e.g. capacitance) which varies with moisture content, deriving from a respective predetermined relationship between the first property and moisture content for each of a plurality of different soil types a first moisture content value for each of said soil types, deriving from a respective predetermined relationship between the second property and moisture content for each of said plurality of different soil types a second moisture content value for each of said soil types, comparing the first and second values for each soil type and selecting the pair of values for which the difference is smallest, and using the selected pair of first and second moisture content values to give the moisture content of the soil. A monitoring device for use in monitoring soil moisture content comprises a control means and a plurality of moisture sensing elements insertable into the soil and connected to the control means, each sensing element being arranged to sense moisture content at a different depth in the soil from the other elements, the control means co-operating with the sensing elements to provide data representing soil moisture content at a range of depths, the control means being connected to a radio transmitter for transmitting the data in conjunction with an identifying code for the device.

IPC 1-7

G01N 33/24; A01G 25/16; G01N 27/04; G05D 22/02; G01N 27/22

IPC 8 full level

A01G 25/16 (2006.01); **G01N 25/56** (2006.01); **G01N 27/02** (2006.01); **G01N 27/04** (2006.01); **G01N 27/22** (2006.01); **G01N 33/24** (2006.01); **G05D 22/02** (2006.01)

CPC (source: EP)

A01G 25/167 (2013.01); **G01N 27/02** (2013.01); **G01N 33/246** (2013.01)

Citation (search report)

See references of WO 0033071A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

GB 2344422 A 20000607; **GB 2344422 B 20040218**; **GB 9826465 D0 19990127**; AU 1573700 A 20000619; EP 1062506 A2 20001227; WO 0033071 A2 20000608; WO 0033071 A3 20000824

DOCDB simple family (application)

GB 9826465 A 19981203; AU 1573700 A 19991203; EP 99958362 A 19991203; GB 9904054 W 19991203