

SEARCH RECORD

Title of invention: ELECTRICAL TOMOGRAPHY FOR VERTICAL PROFILING

Application No: PCT/FI2017/050628

Priority application No:

- No priorities -

Minimum documentation searched (classification system followed by classification):

IPC: G01N, G01R, G01V

CPC: G01N, G01R, G01V

others:

Documentation searched other than minimum (FI,SE,NO,DK):

IPC: G01N27/07, G01N27/22, G01N33/28, G01R27/22

Electronic data bases consulted during the the novelty search:

EPODOC, EPO-Internal full-text databases, Full-text translation databases from Asian languages, WPIAP, PRH-Internal, XP3GPP, XPAIP, XPESP, XPETSI, XPI3E, XPIEE, XPIETF, XPIOP, XPIPCOM, XPJPEG, XPMISC, XPOAC, XPRD, XPTK, COMPDX, INSPEC, TDB, NPL

Language(s) in which the search was carried out:

English

Examiners consulted:

Verifying examiner Tomi Koskinen

Date	Examiner
07.02.2018	Ville Möttönen

The listing of the search history:

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? ..FI $ABS2
? /IN/PA ROCSOLE
** SS 5: Results 34
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** SS 6: Results 2.246
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** SS 7: Results 3.725.502
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** SS 8: Results 166
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** SS 6: Results 73
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** SS 7: Results 3
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** SS 18: Results 0
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** SS 2: Results 128
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** SS 3: Results 223
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** SS 22: Results 20
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** SS 23: Results 1
? *3 AND FI/PN {Filtered FI documents}

** SS 24: Results 0

? XFull Fulltext Non Patent Literature Search:
Mode Direct (Non Patent Literature Search)
English query: 'and (or LAAKKONEN, lehkoinen, mononen, voutilainen, ROCSOLE), (or tank+, vessel+, container+), (or probe, electrode);'
English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''
English limit: None
English results: 437

? XFull Fulltext Non Patent Literature Search:
Mode Direct (Non Patent Literature Search)
English query: 'and (or LAAKKONEN, lehkoinen, mononen, voutilainen, ROCSOLE), (or tank+, vessel+, container+), (or probe, electrode+), (or admittivity, permittivity, conductivity, impedance, capacitance, tomograph+), (or oil, moisture, water, liquid);'
English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''
English limit: None
English results: 174

? XFull Fulltext Non Patent Literature Search:
Mode Direct (Non Patent Literature Search)
English query: 'and (((or (electrical w tomograph+), (electrical w capacitance w tomograph+), ECT, (electrical w impedance w tomograph+), EIT, (electrical w resistance w tomograph+), ERT) p (or tank+, vessel+, container+)) p (or probe, electrode+), (or admittivity, permittivity, conductivity, impedance, capacitance, tomograph+), (or oil, moisture, water, liquid);'
English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''
English limit: None
English results: 2602

? XFull Fulltext Non Patent Literature Search:
Mode Direct (Non Patent Literature Search)
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English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''
English limit: None
English results: 631

? XFull Fulltext Non Patent Literature Search:
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English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''
English limit: None
English results: 271

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Mode Direct (Non Patent Literature Search)

English query: 'and (((or (electrical w tomograph+), (electrical w capacitance w tomograph+), ECT, (electrical w impedance w tomograph+), EIT, (electrical w resistance w tomograph+), ERT) p (or tank+, vessel+, container+)) p probe) p electrode+), (or height, (measurement w level)), (or admittivity, permittivity, conductivity, impedance, capacitance, tomograph+), (or oil, moisture, water, liquid), interface+, surface+;'

English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''

English limit: None

English results: 151

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Mode Direct (Non Patent Literature Search)

English query: 'and (((or (electrical w tomograph+), (electrical w capacitance w tomograph+), ECT, (electrical w impedance w tomograph+), EIT, (electrical w resistance w tomograph+), ERT) p (or tank+, vessel+, container+)) p probe) p electrode+), (or height, (measurement w level)), (or admittivity, permittivity, conductivity, impedance, capacitance, tomograph+), (or oil, moisture, water, liquid), interface+, surface+, vertical+, (or rope+, cable+, anchor+);'

English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''

English limit: None

English results: 44

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Mode Direct (Non Patent Literature Search)

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English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''

English limit: None

English results: 1

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Mode Direct (Non Patent Literature Search)

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English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''

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English results: 2

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English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''

English limit: None

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Mode Direct (Non Patent Literature Search)

English query: 'and (((or (electrical w tomograph+), (electrical w capacitance w tomograph+), ECT, (electrical w impedance w tomograph+), EIT, (electrical w resistance w tomograph+), ERT) p (or tank+, vessel+, container+)) p (probe 4w ((or within, inside, closed) 4w (or tank, volume, container, vessel)))) p electrode+), (or height, (measurement w level)), (or admittivity, permittivity, conductivity, impedance, capacitance, tomograph+), (or oil, moisture, water, liquid);'

English cluster: 'XP3GPP XPAIP XPESP XPETSI XPI3E XPIEE XPIETF XPIOP XPIPCOM XPJPEG XPMISC XPOAC XPRD XPTK' 'COMPDX INSPEC TDB NPL' ''

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English query: 'and (((or (electrical w tomograph+), (electrical w capacitance w tomograph+), ECT, (electrical w impedance w tomograph+), EIT, (electrical w resistance w tomograph+), ERT) p (or tank+, vessel+, container+)) p (probe 4w ((or within, inside, closed) 4w (or tank, volume, container, vessel)))) p electrode+), (or height, (measurement w level)), (or admittivity, permittivity, conductivity, impedance, capacitance, tomograph+), (or oil, moisture, water, liquid);'

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English limit: None

English results: 0

German query: ''

German cluster: ''

German limit: None

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English query: 'and (((or (electrical w tomograph+), (electrical w capacitance w tomograph+), ECT, (electrical w impedance w tomograph+), EIT, (electrical w resistance w tomograph+), ERT) p (or tank+, vessel+, container+)) p (probe 4w ((or within, inside, closed) 4w (or tank, volume, container, vessel)))) p electrode+), (or height, (measurement w level)), (or admittivity, permittivity, conductivity, impedance, capacitance, tomograph+);'

English cluster: 'TCM TXPCNEA TXPCNEB TXPCNEC TXPCNEU TXPCNEY TXPEA TXPEB TXPEC TXPEE TXPEF TXPEH TXPEI TXPEP TXPEPEA TXPEPEB TXPEPEB TXPES TXPEU TXPEY TXPJPEA TXPJPEB TXPJPOEA TXPJPOEB TXPKREA TXPKREB TXPKREU TXPKREY TXPMTCEA TXPMTCEU TXPMTCEA TXPMTCEB TXPMTCEC TXPMTCEU TXPMTET TXPMTTEU TXPMTTEW TXPMTTEY TXPMTJEA TXPMTJEB TXPMTJEU TXPMTJEY TXPMTKEA TXPMTKEB TXPMTKEU TXPMTKEY TXPUSE0A TXPUSE1A TXPUSEA TXPUSEB TXPW0EA TXPW0TEA WPIAP EPODOC'

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French limit: None

French results: 0

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Mode Direct (Patent Search)

English query: 'and (((or (electrical w tomograph+), (electrical w capacitance w

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EPODOC SS 2 Results: 142 /CCA/CUA G01N2027/222/LOW
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English cluster: 'TCM TXPCNEA TXPCNEB TXPCNEC TXPCNEU TXPCNEY TXPEA TXPEB TXPEC TXPEE TXPEF TXPEH TXPEI TXPEP TXPEPEA TXPEPEB TXPES TXPEU TXPEY TXPJPEA TXPJPEB TXPJPOEA TXPJPOEB TXPKREA TXPKREB TXPKREU TXPKREY TXPMTCEA TXPMTCEU TXPMTTEA TXPMTTEB TXPMTTEC TXPMTTEE TXPMTTET TXPMTTEU TXPMTTEW TXPMTTEY TXPMTTJEA TXPMTTJEB TXPMTTJEU TXPMTTJEY TXPMTTKEA TXPMTTKEB TXPMTTKEU TXPMTTKEY TXPUSE0A TXPUSE1A TXPUSEA TXPUSEB TXPW0EA TXPW0TEA WPIAP EPODOC'

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English cluster: 'TCM TXPCNEA TXPCNEB TXPCNEC TXPCNEU TXPCNEY TXPEA TXPEB TXPEC TXPEE TXPEF TXPEH TXPEI TXPEP TXPEPEA TXPEPEB TXPES TXPEU TXPEY TXPJPEA TXPJPEB TXPJPOEA

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French results: 0
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ECT, (electric+ w impedance w tomograph+), EIT, (electric+ w resist+ w tomograph+), ERT),
((vertical+ 5d (or mov+, shift+, transfer+)) 5d (or probe, electrode+));'
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French limit: 0
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? XFull Create Set Patent Search:
Set was not Amended.
? XFull Fulltext Patent Search:
8663 documents selected in the XFull set (Patent Search)
English query: 'and (or (electric+ 2w tomograph+), (electric+ w capacit+ w tomograph+),
ECT, (electric+ w impedance w tomograph+), EIT, (electric+ w resist+ w tomograph+), ERT),
(vertical+ 3d profile+);'
English cluster: 'TCM TXPCNEA TXPCNEB TXPCNEC TXPCNEU TXPCNEY TXPEA TXPEB TXPEC TXPEE
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French query: ''
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? XFull Create Set Patent Search:
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? XFull Fulltext Patent Search:

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English results: 41
German query: ''
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French query: ''
French cluster: ''
French limit: 0
French results: 0
? XFull Create Set Patent Search:
Set was not Amended.
? XFull Fulltext Patent Search:
180070 documents selected in the XFull set (Patent Search)
English query: 'and (((or probe+, element+, electrode+) 7d (or contaminat+, (foreign w
matter), impurity, pollutant, dirt, dielectric+)) 7d (or interface, surface)) 7d (or
effect, impact, influence)), (or tank+, vessel+, container+, reservoir+, cistern+), (or
vertical+, profile+, height+, level+);'
English cluster: 'TCM TXPCNEA TXPCNEB TXPCNEC TXPCNEU TXPCNEY TXPEA TXPEB TXPEC TXPEE
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? XFull Create Set Patent Search:
Set was not Amended.
? XFull Fulltext Patent Search:
180070 documents selected in the XFull set (Patent Search)
English query: 'and (((or probe+, element+, electrode+) 7d (or contaminat+, (foreign w
matter), impurity, pollutant, dirt, dielectric+)) 7d (or interface, surface)) 7d (or
effect, impact, influence)), (or tank+, vessel+, container+, reservoir+, cistern+);'
English cluster: 'TCM TXPCNEA TXPCNEB TXPCNEC TXPCNEU TXPCNEY TXPEA TXPEB TXPEC TXPEE
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TXPJPOEB TXPKREA TXPKREB TXPKREU TXPKREY TXPMTCEA TXPMTCEU TXPMTEA TXPMTEB TXPMTEC TXPMTEE
TXPMTET TXPMTEU TXPMTEW TXPMTEY TXPMTJEA TXPMTJEB TXPMTJEU TXPMTJEY TXPMTKEA TXPMTKEB
TXPMTKEU TXPMTKEY TXPUSE0A TXPUSE1A TXPUSEA TXPUSEB TXPW0EA TXPW0TEA WPIAP EPODOC'
English limit: 550435
English results: 45
German query: ''
German cluster: ''
German limit: 0
German results: 0
French query: ''
French cluster: ''
French limit: 0
French results: 0
Input for Combi:
or "WO2011039416"/PN, "WO2014118425"/PN, "WO2014135741"/PN, "WO2016110608"/PN,
"WO2017203095"/PN

50 PN Documents found
16 NPL Documents found
including 31 restricted family members
Input for Combi:
"JP2013195343"/PN
2 PN Documents found
0 NPL Documents found
including 1 restricted family members
Input for Combi:
or "US2014013830"/PN, "ES2211336"/PN
46 PN Documents found
0 NPL Documents found
including 7 restricted family members
Input for Combi:
or "US2004060344"/PN, "US2015048852"/PN, "US2016327503"/PN, "US8054094"/PN,
"WO2010001089"/PN, "WO2011107657"/PN, "WO2013024198"/PN, "WO9221983"/PN, "GB2546522"/PN
252 PN Documents found
32 NPL Documents found
including 53 restricted family members
Input for Combi:
or "WO0062100"/PN, "WO2017105432"/PN
15 PN Documents found
2 NPL Documents found
including 4 restricted family members
Input for Combi:
or "US2011267074"/PN, "US4926112"/PN, "US5485743"/PN, "XP020063989"/PN
154 PN Documents found
2 NPL Documents found
including 11 restricted family members
Input for Combi:
"US2011025336"/PN
53 PN Documents found
0 NPL Documents found
including 5 restricted family members
Input for Combi:
"US2002093348"/PN
37 PN Documents found
0 NPL Documents found
including 3 restricted family members

Other Information: