

## 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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? /IN/PA ROCSOLE
** SS 5: Results 34
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** SS 7: Results 3.725.502
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** SS 8: Results 166
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** SS 10: Results 6.433
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** SS 15: Results 3.976
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** SS 18: Results 0
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** SS 3: Results 223
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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

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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: 174

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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  
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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: 271

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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) 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)

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

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English limit: None

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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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German query: ''

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English limit: None

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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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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 TXPMTEA TXPMTEB TXPMTTEC TXPMTTEE TXPMTET TXPMTTEU TXPMTTEW TXPMTTEY TXPMTJEA TXPMTJEB TXPMTJEU TXPMTJEY TXPMTKEA TXPMTKEB TXPMTKEU TXPMTKEY 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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(vertical+ 3d profile+);'  
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French limit: 0  
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effect, impact, influence)), (or tank+, vessel+, container+, reservoir+, cistern+), (or  
vertical+, profile+, height+, level+);'  
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? XFull Create Set Patent Search:  
Set was not Amended.  
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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  
TXPEF TXPEH TXPEI TXPEP TXPEPEA TXPEPEB TXPES TXPEU TXPEY TXPJPEA TXPJPEB TXPJPOEA  
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:**