

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 January 2010 (07.01.2010)

PCT

(10) International Publication Number
WO 2010/001089 A8

- (51) International Patent Classification:
G01N 27/07 (2006.01) G01N 33/28 (2006.01)
G01N 33/24 (2006.01) G01F 23/26 (2006.01)
- (21) International Application Number:
PCT/GB2009/001534
- (22) International Filing Date:
18 June 2009 (18.06.2009)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0812022.2 1 July 2008 (01.07.2008) GB
- (71) Applicant (for all designated States except US): **INDUSTRIAL TOMOGRAPHY SYSTEMS PLC** [GB/GB];
Speakers House, 39 Deansgate, Manchester M3 2BA (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **QIU, Changua** [GB/GB]; Industrial Tomography Systems PLC, Speakers House, 39 Deansgate, Manchester M3 2BA (GB).
- (74) Agent: **BRAY, Richard, Anthony**; Marks & Clerk LLP, Sussex House, 83-85 Mosley Street, Manchester M2 3LG (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report (Art. 21(3))

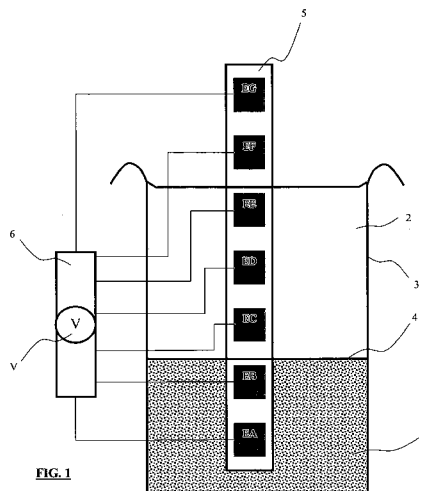
(48) Date of publication of this corrected version:

17 February 2011

(15) Information about Correction:

see Notice of 17 February 2011

(54) Title: STRUCTURAL DETERMINATION APPARATUS AND METHOD



(57) Abstract: According to a first aspect of the present invention there is provided apparatus arranged to determine an interface between two components, comprising: a reference electrode arranged to be connected to a constant voltage supply or ground; a measurement electrode, and a field generating device arranged to establish an electric field in at least one of the components; wherein the field generating device is configured to establish the electric field across the measurement electrode, and the apparatus is configured to measure a potential difference between the measurement electrode and the reference electrode, the potential difference between the measurement electrode and the reference electrode being indicative of the interface between the components.

WO 2010/001089 A8