

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 November 2005 (24.11.2005)

PCT

(10) International Publication Number
WO 2005/111659 A1

(51) International Patent Classification⁷: **G01V 3/00**,
G01G 9/00

(72) Inventors; and

(21) International Application Number:
PCT/US2004/020889

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(22) International Filing Date: 30 June 2004 (30.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/836,299 30 April 2004 (30.04.2004) US

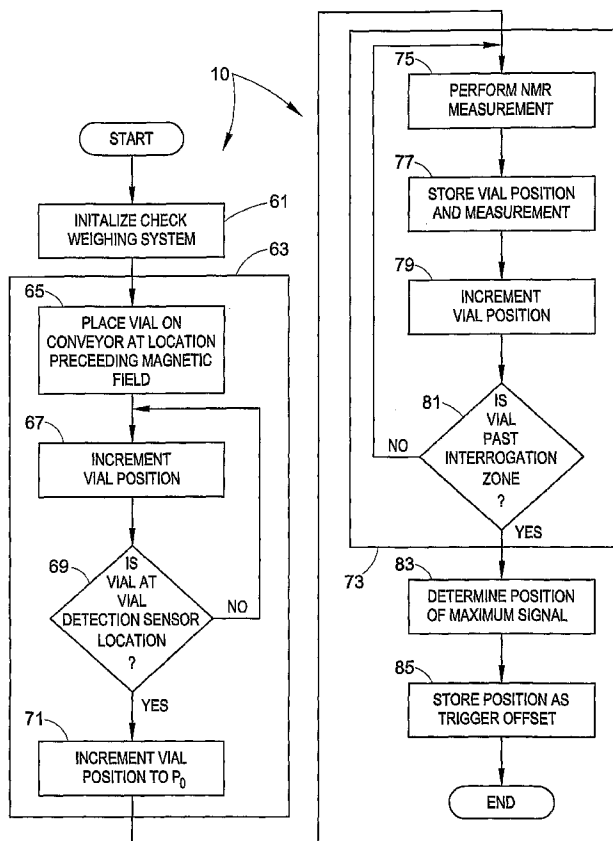
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

[Continued on next page]

(54) Title: METHOD FOR TRIGGERING NMR MEASUREMENT IN AN NMR CHECK WEIGHING SYSTEM



(57) Abstract: Magnetic resonance methods determining the mass of samples in vials in a production line are provided, each sample having a net magnetization capability, including the steps of: applying a first magnetic field in a first direction in an interrogation zone, creating a net magnetization within a sample located within the interrogation zone, applying an alternating magnetic field in a second direction temporarily changing the net magnetization of the sample located within the interrogation zone, triggering the alternating magnetic field when the sample is located at a position within the interrogation zone where the current amplitude is maximum, monitoring emitted sample energy as the net magnetization of the sample returns to its original state, generating an output signal whose current amplitude is proportional to the energy emitted, comparing the current amplitude with like data obtained from at least one similar sample of known mass, and determining the mass of the sample.



CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

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