(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 May 2003 (22.05.2003)

PCT

(10) International Publication Number
WO 03/042672 A1

(51) International Patent Classification[7]: G01N 21/90

(21) International Application Number: PCT/NL02/00749

(22) International Filing Date:
18 November 2002 (18.11.2002)

(25) Filing Language: Dutch

(26) Publication Language: English

(30) Priority Data:
1019382 16 November 2001 (16.11.2001) NL

(71) Applicant *(for all designated States except US)*: **HEINEKEN TECHNICAL SERVICES B.V.** [NL/NL]; Tweede Weteringplantsoen 21, NL-1017 ZD Amsterdam (NL).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **AKKERMAN, Jensen, Peter** [NL/NL]; Nieuwe Kerklaan 6, NL-1271 BV Huizen (NL). **VAN DER MEER, Dan** [NL/NL]; Oostblok 213, NL-2612 KP Delft (NL). **DE WIT, Jilles** [NL/NL]; Korvezeestraat 631, NL-2628 CV Delft (NL). **ENDTZ, Frederik, Nico** [NL/NL]; Berglustlaan 85, NL-3054 BE Rotterdam (NL). **VAN DE STADT, Arend** [NL/NL]; Naarderstraat 306, NL-1272 NT Huizen (NL). **LANDMAN, Bernadus, Cornelis, Johannes** [NL/NL]; Noordeinde 373, NL-2771 WR Boskoop (NL).

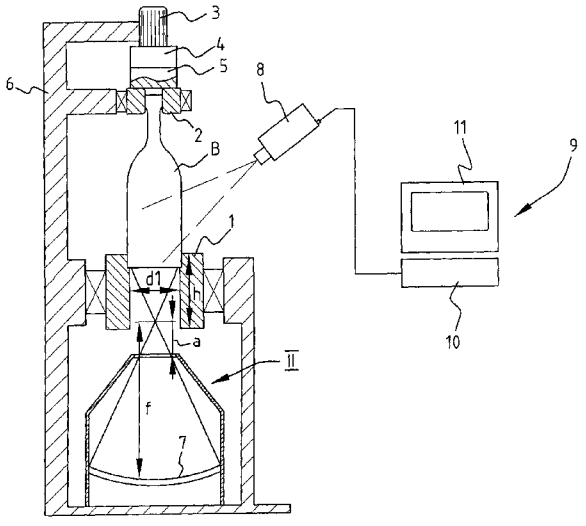
(74) Agent: **LAND, Addick, Adrianus, Gosling**; Sweelinckplein 1, NL-2517 GK Den Haag (NL).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, 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, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PERFORMING MEASUREMENTS ON PACKAGING FOR A FLUID PRODUCT



(57) Abstract: The present invention provides a device and a method for performing measurements on packagings, in particular packagings which are at least slightly worn on otherwise to a greater or lesser extent opaque to visible light, which are filled with a liquid product, wherein the packagings are irradiated with radiation in a wavelength range suitable for the packaging with product, and images of at least a part of the content of the packaging are recorded for a predetermined time by image recording means, wherein the obtained image information is analysed for information indicating the presence of undesired particles, and a part of the radiation has a frequency falling within the infrared range.

WO 03/042672 A1

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:
— *with international search report*