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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 October 2013 (03.10.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/147589 A2

(51) International Patent Classification:
G01N 30/88 (2006.01)

(21) International Application Number:
PCT/MY2013/000084

(22) International Filing Date:
17 April 2013 (17.04.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PI 2012001424 29 March 2012 (29.03.2012) MY

(71) Applicant: **INSTITUT PENYELIDIKAN DAN KEMAJUAN PERTANIAN MALAYSIA (MARDI)** [MY/MY]; Ibu Pejabat Mardi, Persiaran Mardi-Upm, 43400 Serdang, Selangor (MY).

(72) Inventor: **HASLINA HASAN**; Technical Services Centre, Ibu Pejabat Mardi, Persiaran Mardi-Upm, 43400 Serdang, Selangor (MY).

(74) Agent: **MANIAM MAHALINGAM**; IP Rights (M) SDN BHD, No. 7-M, Biz Avenue, Neo Cyber, Lingkaran, Cyber Point Barat, 63000 Cyberjaya, Selangor, Darul Ehsan (MY).

(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, BN, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to the identity of the inventor (Rule 4.17(i))*

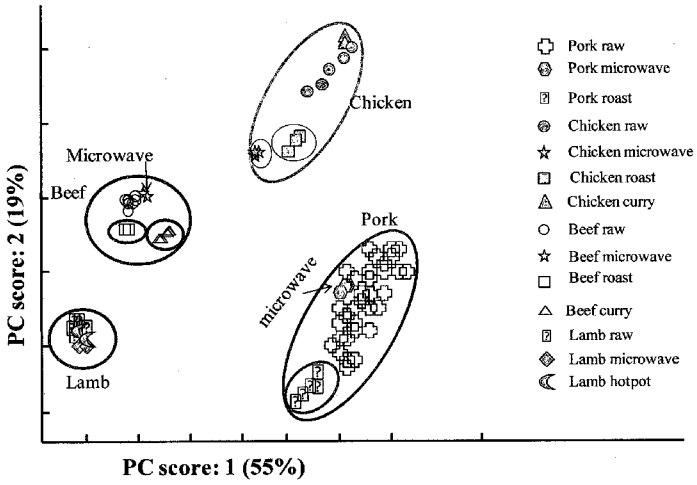
— *of inventorship (Rule 4.17(iv))*

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

— *with information concerning request for restoration of the right of priority in respect of one or more priority claims (Rules 26bis.3 and 48.2(b)(vii))*

(54) Title: ASSAY FOR IDENTIFYING ANIMAL SPECIES IN RAW AND COOKED CONDITIONS



(57) Abstract: The present invention relates to a method for identifying animal species in raw and cooked conditions based on animal fats detection (might be need to mention the analyte here, TAGs - It is merely an abstract, no specific description on the analyte is required). From the results, it is concluded that the meat products of different species (beef, pork, chicken and lamb) cooked by microwave, roasting and currying are separated well in the PCA scores plot. The present invention confirms that the discrimination of meat from different animal species is possible for both raw and cooked meat products, and reveals that the differences produced by the various cooking methods are less than the variations observed between species. The loadings values for the scores plot of TAGs for raw and cooked meat products are similar to the raw meat in different animal species and have the same important descriptors for discrimination.

WO 2013/147589 A2