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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06T 1/40, 7/00, G06F 15/18, G01J 3/46, G01N 33/10	A1	(11) International Publication Number: WO 96/18975 (43) International Publication Date: 20 June 1996 (20.06.96)
(21) International Application Number: PCT/AU95/00813 (22) International Filing Date: 1 December 1995 (01.12.95) (30) Priority Data: PN 0023 13 December 1994 (13.12.94) AU (71) Applicant (for all designated States except US): ARNOTT'S BISCUITS LIMITED [AU/AU]; 170 Kent Street, Sydney, NSW 2000 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): WESTCOTT, Charles, Tasman [AU/AU]; 18 Goodwin Avenue, Greenacre, NSW 2190 (AU). HAMEY, Leonard, George, Chadborn [AU/AU]; 51 Jopling Street, North Ryde, NSW 2113 (AU). (74) Agent: SPRUSON & FERGUSON; G.P.O. Box 3898, Sydney, NSW 2001 (AU).		(81) Designated States: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, <u>SG</u> , SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, LS, MW, SD, SZ, UG). Published <i>With international search report.</i> <i>With amended claims.</i>

(54) Title: DATA RECOGNITION SYSTEM**(57) Abstract**

The present invention is directed towards a method of determining the state of a substance (2) having a color property dependent on the state of the substance. The method includes the following steps: forming a pixel image of the substance (3) using a camera (3); projecting the pixel image into a three-dimensional color space using a neural network (7); and comparing the projection (37) with a projection of a second position of the substance (2) to determine the state of the substance (2) using a second neural network (9).

