

(51) International Patent Classification:
G06F 19/10 (2011.01)(21) International Application Number:
PCT/US2011/031824(22) International Filing Date:
8 April 2011 (08.04.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/322,274 8 April 2010 (08.04.2010) US(71) Applicant (for all designated States except US): **LIFE TECHNOLOGIES CORPORATION** [US/US]; c/o CPA Global, P.O. Box 52050, Minneapolis, Minnesota 55402 (US).

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(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, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
23 February 2012

(54) Title: SYSTEMS AND METHODS FOR GENOTYPING BY ANGLE CONFIGURATION SEARCH

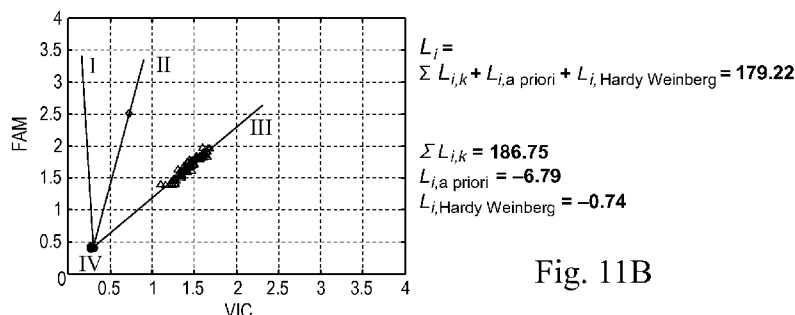


Fig. 11B

(57) **Abstract:** Methods and systems for the analysis of genotyping data are presented. According to various embodiments of methods and systems, an angle configuration search may be performed. In various embodiments, an exhaustive search over the entirety of an angle configuration space may be performed to provide a fit to a plurality of angles determined for a plurality of points in a data set generated from a plurality of biological samples. For various embodiments, the angle configuration space may be defined to ensure that a global fit may be determined. According to various methods and systems, a data base of possible angle configurations may be searched, in which each angle configuration may include three angles. According to various methods and systems, a data base of possible angle configurations may include for each angle configuration a probability that the angle configuration may occur.