

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
16 July 2020 (16.07.2020)

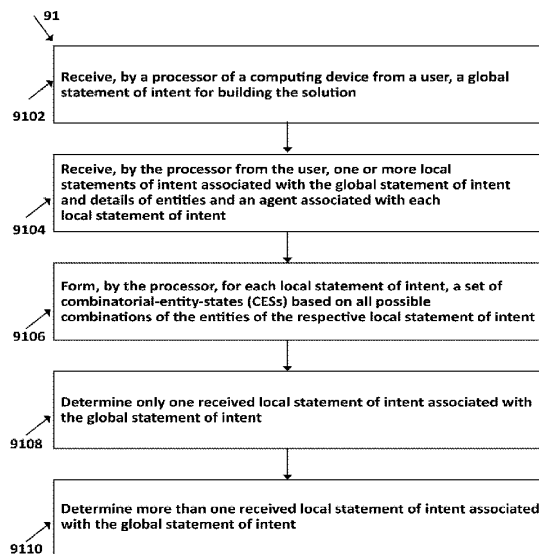


(10) International Publication Number  
**WO 2020/145892 A1**

- (51) International Patent Classification:  
*G06F 8/30* (2018.01)
- (21) International Application Number:  
PCT/SG2020/050004
- (22) International Filing Date:  
03 January 2020 (03.01.2020)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
201941001135 10 January 2019 (10.01.2019) IN  
201941028675 16 July 2019 (16.07.2019) IN
- (71) Applicant: **FRACTAL COGNITIVES PTE. LTD.**  
[SG/SG]; 1 Raffles Place, Tower 2, #19-61, One Raffles  
Place, Singapore 048616 (SG).
- (72) Inventor: **BYRRAJU, Ramalinga Raju**; Plot no. 1242,  
Road no. 62, Jubilee Hills, Hyderabad 500033 (IN).
- (74) Agent: **SPRUSON & FERGUSON (ASIA) PTE LTD**;  
P.O. Box 1531, Robinson Road Post Office, Singapore  
903031 (SG).
- (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, DJ, DK, DM, DO,  
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,  
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,  
KR, KW, KZ, LA, LC, LK, LR, LS, 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, SA,  
SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: NATURAL SOLUTION LANGUAGE

DRAWING 91:



(57) **Abstract:** A computer-implemented method that effectively replaces 'programming code' in conveying application or solution logic to the computer using a natural language-based design. Without taking any reference to alien symbols or keywords, NSL uses standard and familiar natural-language-like constructs (any natural language, not just English) using a computer-implemented method to technically convey complex operating, application, and solution logic to the machine agents (computers) in a user-friendly way. Using the same computer-implemented methodologies, it has the power to translate or reverse engineer all existing programming code into NSL. Fundamentally, NSL requires no 'programming code' expertise. Users can quickly and easily convey the logic directly to the computer or recruit available solution components with ease. In addition, the elimination of artificial barriers between information and processes, and merging them, solution logic embedded in computer programs and applications is brought into the purview of

[Continued on next page]

**(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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

— *of inventorship (Rule 4.17(iv))*

**Published:**

— *with international search report (Art. 21(3))*  
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*