

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
31 January 2019 (31.01.2019)



(10) International Publication Number
WO 2019/021300 A1

- (51) International Patent Classification:
G06Q 10/06 (2012.01) *G06N 3/08* (2006.01)
- (21) International Application Number:
PCT/IN2018/050311
- (22) International Filing Date:
16 May 2018 (16.05.2018)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
201741026310 25 July 2017 (25.07.2017) IN
- (71) Applicant: ARTH DESIGNBUILD INDIA PVT. LTD.
[IN/IN]; 8-2-293/82/III/550-AI, Rd Number 92, Jubilee Hills, Hyderabad 500033 (IN).
- (72) Inventors: KARTHIK, Thumu; 8-2-293/82/III/550-AI, Rd Number 92, Jubilee Hills, Hyderabad 500033 (IN). CHANDOLA, Kailash; 8-2-293/82/III/550-AI, Rd Number 92, Jubilee Hills, Hyderabad 500033 (IN). SAHU, Swapnil; 8-2-293/82/III/550-AI, Rd Number 92, Jubilee Hills, Hyderabad 500033 (IN). GARGYA, Anshul; 8-2-293/82/III/550-AI, Rd Number 92, Jubilee Hills, Hyderabad 500033 (IN). JASTI, Kevin; 8-2-293/82/III/550-AI, Rd Number 92, Jubilee Hills, Hyderabad 500033 (IN).
- (74) Agent: THAKUR, Sujit; c/o Jupiter Law Partners, office no. 123, first floor vipul agora, M G road, Gurgaon 122002 (IN).
- (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,

(54) Title: SYSTEM AND METHOD FOR MANAGING RESOURCES IN A WORKSITE

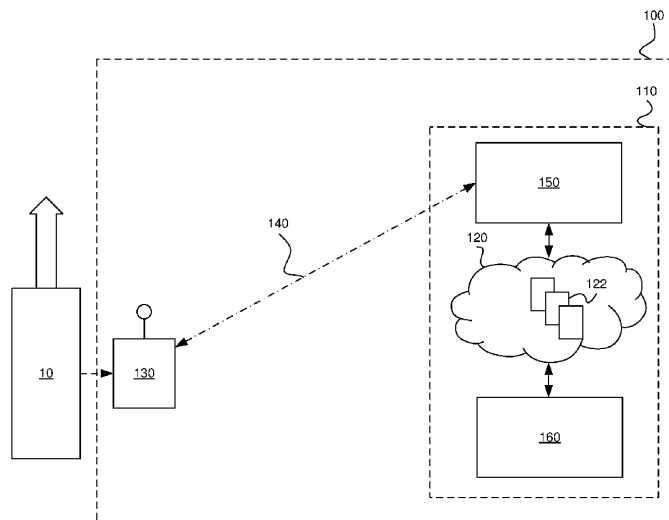


FIG. 1

(57) Abstract: A system and a method for managing resources, using prediction models for estimating required resources for a selected activity in the worksite, is disclosed. This involves capturing object data related to actual resources utilized for the selected activity; and further accessing, from the BIM files, historic data about consumed resources for one or more other activities similar to the selected activity. A preliminary prediction model is used to estimate required resources for the selected activity by extrapolating the historic data related to consumed resources associated with the one or more other activities. Further, a variance between the estimated required resources and actual resources utilized is calculated for the selected activity, and the obtained information is utilized to refine the said preliminary prediction model so that it may provide better prediction for subsequent request for queries related to estimation of resources for any activity in the worksite.

[Continued on next page]



WO 2019/021300 A1

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, 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, 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:

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

- *with international search report (Art. 21(3))*