

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
31 October 2019 (31.10.2019)



(10) International Publication Number
WO 2019/209578 A8

(51) International Patent Classification:

G06K 17/00 (2006.01) G06F 19/00 (2018.01)
B23D 25/12 (2006.01) G08C 17/00 (2006.01)
B23D 33/02 (2006.01)

(21) International Application Number:

PCT/US2019/027613

(22) International Filing Date:

16 April 2019 (16.04.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/663,645 27 April 2018 (27.04.2018) US

(71) Applicant: **WIRTZ MANUFACTURING COMPANY, INC.** [US/US]; 1105 24th Street, P.O. Box 5006, Port Huron, MI 48061-5006 (US).

(72) Inventors: **WIRTZ II, John, W.**; 3967 Capital Avenue, Fort Gratiot, MI 48059-3778 (US). **MERCURIO, Scott**; 5332 Walker Road, Clyde, MI 48049-3812 (US). **WIRTZ**,

Robert N.; 902 Fernwood Road, Royal Oak, MI 48067 (US).

(74) Agent: **FRANCIS, William, H.**; Reising Ethington P.C., 755 West Big Beaver Road, Suite 1850, Troy, MI 48084 (US).

(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, 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,

(54) Title: BATTERY MACHINE TOOL SYSTEM AND METHOD

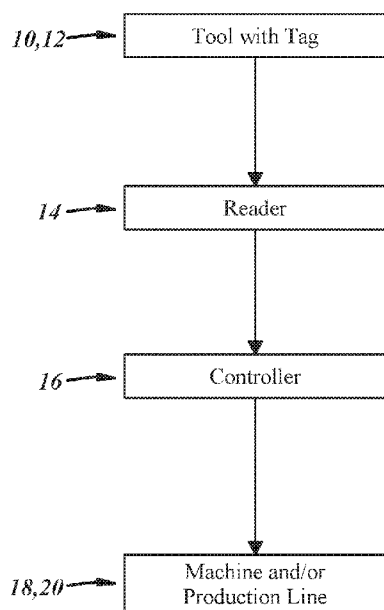


FIG. 1

(57) Abstract: A system for setting a specific value of a variable operating parameter of a machine usable with a plurality of different tools each requiring a different specific value of the operating parameter. The system may include a tag associated with a specific tool and containing stored data of a predetermined desired value of an operating parameter of the machine for the specific tool, a reader of the tool stored data of the desired value and a controller of the machine which uses at least some of the stored data to set the predetermined desired value of the variable operating parameter of the machine for its use of the specific tool or of a variable operating parameter of another machine which is dependent on the specific value of at least some of the stored data of the tag of the specific tool used in the machine. The machine may be one of a battery grid casting machine, a battery grid pasting machine, a battery paste making machine, a battery paste drying oven, a battery grid or plate cutting or trimming machine, a battery plate stacking machine, a robotic palletizing machine, or the like.

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 applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *of inventorship (Rule 4.17(iv))*

Published:

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

(48) Date of publication of this corrected version:

05 November 2020 (05.11.2020)

(15) Information about Correction:

see Notice of 05 November 2020 (05.11.2020)