

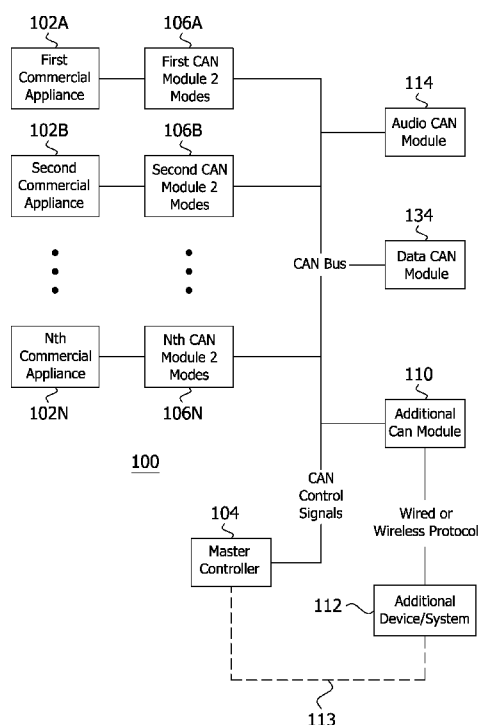


- (51) **International Patent Classification:**
H04L 12/40 (2006.01)
- (21) **International Application Number:**
PCT/US2013/038988
- (22) **International Filing Date:**
1 May 2013 (01.05.2013)
- (25) **Filing Language:**
English
- (26) **Publication Language:**
English
- (30) **Priority Data:**
61/640,875 1 May 2012 (01.05.2012) US
- (71) **Applicant:** DUKE MANUFACTURING CO. [US/US];
2305 North Broadway, St. Louis, Missouri 63102 (US).
- (72) **Inventors:** REESE, Robert J.; c/o Duke Manufacturing
Co., 2305 North Broadway, St. Louis, Missouri 63102
(US). STAFFORD, Jeffrey A.; c/o Duke Manufacturing
Co., 2305 North Broadway, St. Louis, Missouri 63102
(US). JONES, David Robert; c/o Duke Manufacturing
Co., 2305 North Broadway, St. Louis, Missouri 63105
(US). GEERLING, Philip Gregory; c/o Duke Manufac-
- turing Co., 2305 North Broadway, St. Louis, Missouri
63102 (US).
- (74) **Agents:** AGOVINO, Frank, R. et al.; Senniger Powers
LLP, 100 North Broadway, 17th Floor, St. Louis, Missouri
63102 (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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, 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, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,

[Continued on next page]

(54) **Title:** CAN BUS COMMERCIAL APPLIANCE SYSTEM AND METHOD

FIG. 1



(57) **Abstract:** One or more commercial appliances for handling food and/or commodities associated with food in combination with one of more subsystems of commercial appliances for handling food and/or commodities associated with food are linked to a master controller for controlling the operation of the commercial appliance(s) and/or its subsystem(s) via one or more CAN modules and a CAN bus.



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))*

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))*

(88) Date of publication of the international search report:

27 December 2013

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/038988

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04L 12/40 (2013.01)

USPC - 700/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - G05B 15/02; H04L 12/28, 12/40, 12/403 (2013.01)

USPC - 700/1, 3, 19, 20, 21

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - G05B 15/02; H04L 12/28, 12/40, 12/403 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Orbit, Google Patents, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2010/031012 A1 (SCHORK et al) 18 March 2010 (18.03.2010) entire document	1-31
Y	US 6,332,327 B1 (STREET et al) 25 December 2001 (25.12.2001) entire document	1-31
Y	US 6,615,088 B1 (MYER et al) 02 September 2003 (02.09.2003) entire document	1-31
Y	EP 1,044,400 B1 (KEMINK) 26 April 2006 (26.04.2006) entire document	3
Y	EP 2,320,605 A1 (GOMEZ SKARMETA et al) 11 May 2011 (11.05.2011) entire document	7
Y	EP 1,758,056 A2 (KOETHER) 28 February 2007 (28.02.2007) entire document	12, 18, 24

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

14 October 2013

Date of mailing of the international search report

31 OCT 2013

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774