

(19) World Intellectual Property
Organization
International Bureau



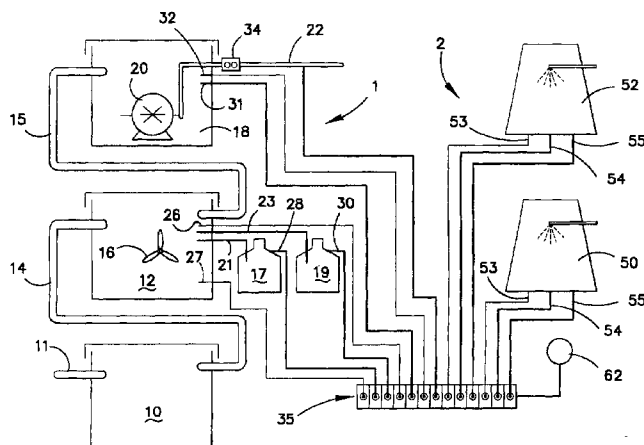
(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/040389 A1

- (51) International Patent Classification⁷: **G05B 23/02**, F25B 49/00, F24F 11/00, C02F 1/00
- (74) Agent: **GRIFFITH HACK**; 509 St Kilda Road, Melbourne, Victoria 3004 (AU).
- (21) International Application Number:
PCT/AU2003/001198
- (22) International Filing Date:
12 September 2003 (12.09.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2002952554 31 October 2002 (31.10.2002) AU
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **HYDRO AUDITING SYSTEMS PTY LTD** [AU/AU]; 23 Cardigan Place, Albert Park, Victoria 3206 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **CARTER, Peter, John** [AU/AU]; 72 Winona Road, Mt Eliza, Victoria 3930 (AU).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: MONITORING SYSTEM



(57) **Abstract:** A monitoring system for monitoring fluid used in an environment such as a trade/industrial waste plant or air conditioning cooling tower installation is disclosed. The system includes sensors (26 to 34, 53 to 55) for sensing parameters of the fluid, a remote monitoring system (40) for receiving signals indicative of the measured parameters from the sensors and for applying rules to the signals to determine whether the signals meet predetermined criteria so that an event indication can be generated if the predetermined criteria are not met. The system (40) includes a processor (41) and a memory (42). The system (40) is connected to a central station (72) by a communication link (74). The central station (72) includes a server (80) and data store (82) which are connected to the Internet so the data can be interrogated by a user *via* a PC (86). The system also generates an audible or visual alarm (62) or forwards a message to authorised personnel *via* SMS message to a mobile telephone (87) or by e-mail in the case of an event condition being generated. A user is able to log onto the system and interrogate data retained in the system relating to the user's sites to determine the operating parameters of the system and also to determine problems if an event indication is established.