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(71) Applicant: **TECHNICAL CONCEPTS, LLC** [US/US];
1301 Allanson Road, Mundelein, IL 60060 (US).

(72) Inventor (for all designated States except US): **JOST, George**; 183 Hilltop Drive, Lake In The Hills, IL 60156 (US).

(74) Agent: **PATEL, Chirag**; Sachnoff & Weaver, Ltd, 10 South Wacker Drive, Chicago, IL 60606 (US).

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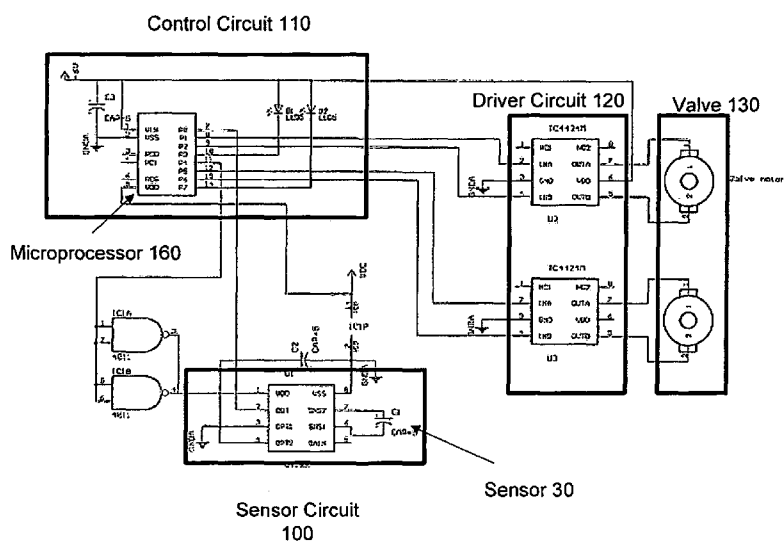
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(54) Title: PLUMBING DEVICE WAVE CONTROL CIRCUIT



(57) Abstract: A wave control circuit disclosed herein may be used to control the operation of various plumbing devices and appliances. The wave control circuit uses a sensor to sense presence of objects in the vicinity of the plumbing device and appliance using the wave control circuit and a control circuit to control the operation of the plumbing device or appliance.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/04087

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - F16K 31/02 (2007.10)

USPC - 251/129.04

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)

USPC: 251/129.04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC: 236/12.1, 4/676, 678

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

Electronic Databases Searched: PubWEST(USPT,PGPB,EPAB,JPAB); USPTO, Google, Answers.com, Google Scholar

Search terms: Flow, detect, sensor, timer, control, circuit, temperature, warm, hot, cold, disable, fluid, water, control, delay, volume, calibrate, signal, valve, faucet, showerhead, plumbing, movement

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/0006354 A1 (GULER et al.) 12 January 2006 (12.01.2006) para [0001], [0003]-[0005], [0007], [0010]-[0015], [0019], [0053], [0066], [0084], [0098], [0102], [0107], [0134]-[0136], [0141], [0146], [0154]-[0164], [0182], [0201], [0203] and [0228]; See Figs. 1 and 11	1-5, 9-14 and 17-19
Y		6-8 and 15-16
Y	US 2005/0121529 A1 (DELANGIS) 09 June 2005 (09.06.2005) para [0022] and [0030]	6-8 and 15-16
Y	US 2005/0125083 A1 (KIKO) 09 June 2005 (09.06.2005) para [0117]	7 and 16
A	US 2005/0199842 A1 (PARSONS et al.) 15 September 2005 (15.09.2005)	1-19

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"&" document member of the same patent family

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Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774