

# Patent Owner

# Global Touch Solutions, LLC

## Demonstratives

IPR 2015-01149  
US Patent No. 7,329,970 B2

August 4, 2016

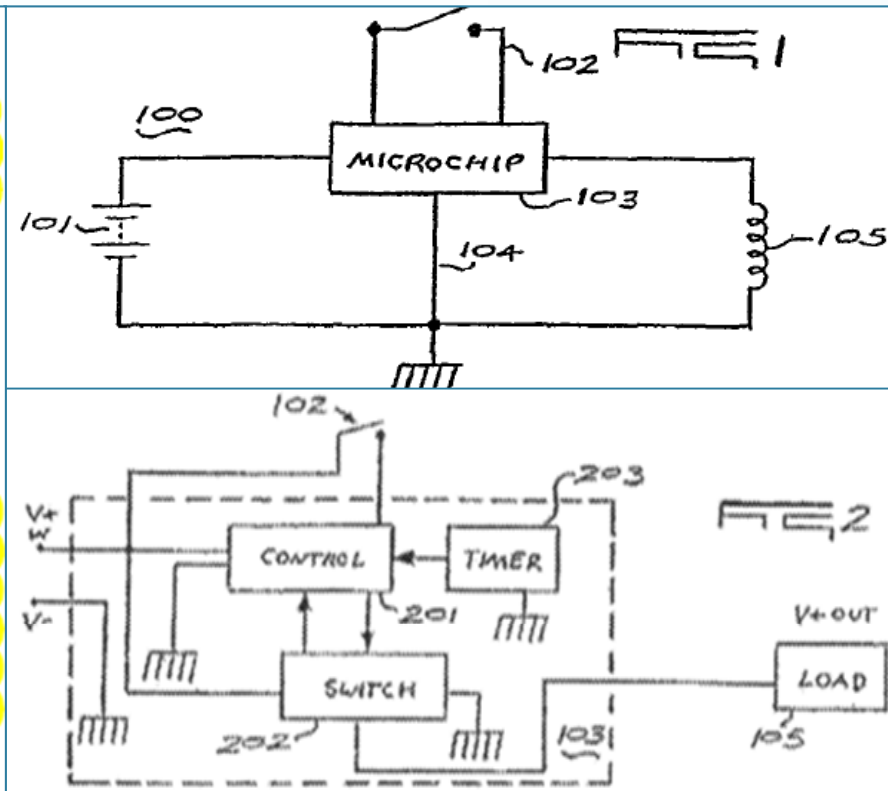
# Instituted Grounds

- **Ground 1:** Claims 1, 3-5, 10-14, 19, 48, 49, 51, and 52 are rendered obvious under 35 U.S.C. § 103(a) over U.S. Patent No. 6,125,286 ("Jahagirdar") (Exhibit 1004) in view of U.S. Patent No. 4,053,789 ("Schultz") (Exhibit 1005).

Institution Decision (Paper 12) at page 11

# '970 Patent: Overview

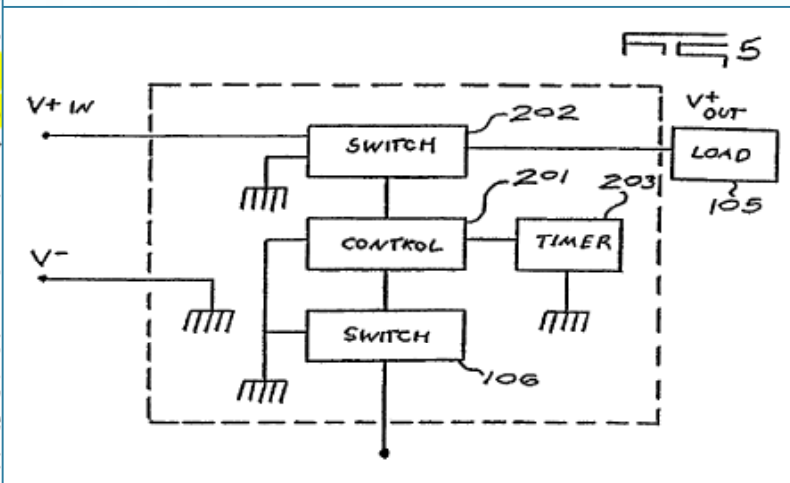
The structure and operational parameters of such a microchip 103 are explained in greater detail below with respect to FIG. 2. As shown in FIG. 1, power is supplied to microchip 103 by power source 101. When an operator activates input switch 102 to the "on" position it represents a command which is communicated to microchip 103. Input means 102 requires very low current in preferred embodiments. In one embodiment of the invention, microchip control/reset means 201 simply allows the current switch 202 to pass current provided from power source 101 to load 105 in an unimpeded manner when the MMI switch 102 is activated, and, in the case of a flashlight, illumination is obtained. It is important to recognize, however, that it is control circuit 201 which activates current switch 202 upon acting on an input from MMI switch 102. Unlike heretofore known prior art devices, activating switch 102 does not conduct current to load 105, but is only a command input mechanism which can, according to the invention, operate on very low current. For example, according to the invention, touch sensor input or carbon coated membrane type switch devices are preferred.



'970 (Exhibit 1001) at col. 6, line 60 to col. 7, line 13


# '970 Patent: Overview

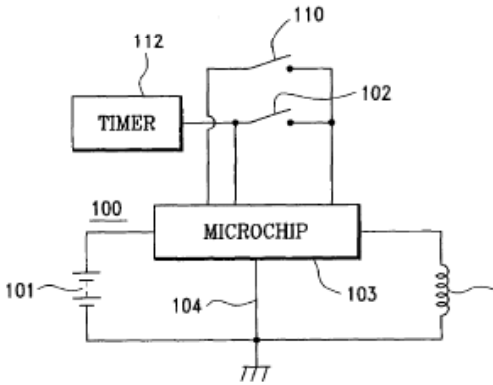
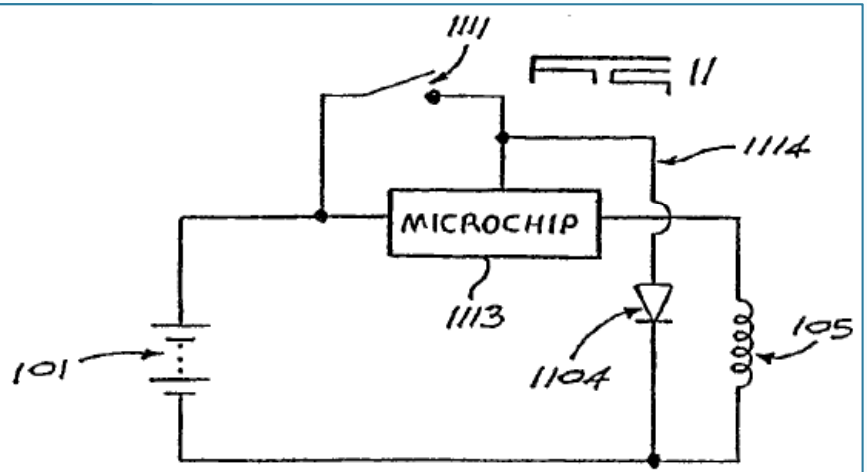
A block diagram showing microchip 103 for use, in accordance with one embodiment of the present invention, in association with a carbon coated membrane, a touch pad switch, or a low current type switch 106 is now explained in greater detail in respect to FIG. 5. According to this one embodiment of the present invention, current switch 202 is powered directly by grounded power source 101. However, output of current from current switch 202 to load 105 is dependent on control/reset means 201. When an operator depresses touch pad 106, carbon coated membrane switch 106 or low current type switch 106, control/reset means 201 allows current switch 202 to flow current through to load 105. However, in more intelligent applications according to certain embodiments of the present invention, control/reset means 201 will coordinate, based on clock and/or timing means 203, to execute timing routines similar to those described above such as, but not limited to, intermittent flashing, the flashing of a conspicuous pattern such as Morse code, dimming functions, battery maintenance, battery strength/level, etc.



'749 (Exhibit 1001) at col. 8, lines 17-36, Dec. of Robert Morley (Exhibit 2006) at para. 15

# '970 Patent: Overview

 US007329970B2	
(12) <b>United States Patent</b> <b>Brewer</b>	(10) Patent No.: <b>US 7,329,</b> (45) Date of Patent: <b>Feb.</b>
(54) <b>TOUCH SENSOR AND LOCATION INDICATOR CIRCUITS</b>	(58) Field of Classification Search ..... See application file for complete search
(75) Inventor: <b>Frederick Johannes Brewer, Ph.D. (ZA)</b>	(56) <b>References Cited</b> U.S. PATENT DOCUMENTS 6,249,089 B1 * 6/2001 Brewer ..... * cited by examiner
(73) Assignee: <b>Azoteq (Pte) Ltd, Ph.D. (ZA)</b>	(74) Attorney, Agent, or Firm—Jones, Tuller & Pivarsky
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.	(57) <b>ABSTRACT</b> An electronic circuit for use with an exhaust source and load such as a light bulb, a radio includes a microchip with an input that transmits the microchip when the load is activated or deactivated does not form a serial link between the power source and the load. The power switch, by on/off switch, controls energy flow from the power source to the electronic circuit. The electronic circuit has an automatic delayed shut-off for the load and, a find-in-the-dark indicator or a source level indicator which are active when the energized and the power source is not being charged. The microchip acts as an activation/deactivation interface. The microchip allows the user to set functions based on the time duration of activated the time duration between activation signals and of activation signals at the input.
(21) Appl. No.: <b>11/489,868</b> (22) Filed: <b>Jul. 6, 2006</b>	
(65) <b>Priority Publication Data</b> US 2006/0250028 A1 Nov. 9, 2006	
(63) <b>Related U.S. Application Data</b> Continuation of application No. 10/873,190, filed on Jun. 23, 2004, now Pat. No. 7,084,531, which is a continuation of application No. 09/906,800, filed as application No. PCT/ZA99/00307 on Oct. 8, 1999, now Pat. No. 6,984,500, which is a continuation-in-part of application No. 09/160,395, filed on Oct. 9, 1998, now Pat. No. 6,248,089.	
(51) Int. Cl. <b>H01H 5/26</b> (2006.01)	(52) U.S. CL <b>307/140</b>
55 Claims, 6 Drawing Sheets	

According to another embodiment of the present invention, an output may be provided to indicate a condition, e.g. a battery is in good or bad condition. It may also be suitable to assist in locating a device, e.g. but not limited to a flashlight, in the dark. This may be a separate output pin or may be, according to another embodiment, shared with the MMI switch input. (See FIG. 11) This output or indicator may be a LED. Referring to FIG. 11, indicator/output device 1104 may, for example, be an LED. When microchip 1113 pulls the line 1114 to high, the LED 1104 shines. LED 1104 may also shine when switch 1111 is closed by the user. However, since that is only a momentary closure, this should not create a problem.

'970 (Exhibit 1001) col. 9, lines 47-59; Dec. of Robert Morley (Exhibit 2006) at para. 17

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