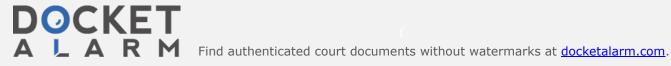
# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD

PRIME WIRE & CABLE, INC.	)
Petitioner,	)
	)
<b>v.</b>	) Case: IPR2018-01592
	) Patent No.: 9,320,122
CANTIGNY LIGHTING	)
CONTROL, LLC.	<b>EXHIBIT 1045</b>
	)
Patent owner	)
	)
JASCO PRODUCTS, INC.	)
,	)
Licongoo	Ì





US007058479B2

# (12) United States Patent Miller

# (10) Patent No.: US 7,058,479 B2 (45) Date of Patent: Jun. 6, 2006

#### (54) IRRIGATION CONTROLLER

(76) Inventor: Robert Miller, 4955 Coolbrook Ave,

Montreal, Quebec (CA) H3X 2K8

(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 11/044,230

(22) Filed: Jan. 28, 2005

(65) Prior Publication Data

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#### Related U.S. Application Data

- (60) Provisional application No. 60/539,975, filed on Jan. 30, 2004.
- (51) **Int. Cl.**

**G05D** 7/**00** (2006.01)

- (52) **U.S. Cl.** ...... 700/284; 239/69

See application file for complete search history.

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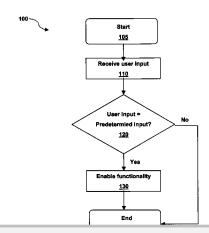
\* cited by examiner

Primary Examiner—Leo Picard
Assistant Examiner—Charles Kasenge

(57) ABSTRACT

An irrigation controller for selectively turning on and off a set of sprinkler valve stations. The irrigation controller is programmable by a user. The irrigation controller includes an irrigation control processor. The irrigation control processor includes an input port, an output port, a memory element for storing an irrigation control program and irrigation control parameters, the irrigation control program implementing a plurality of functionalities that are selectively enabled, a processing unit for executing the irrigation control program, and a bus connecting said processing unit to said memory element and to said input and output ports. An input device is interfaced with the input port. The output port is provided with interface with the sprinkler valve stations for controlling the turning on and off of the sprinkler valve stations. The input device cooperates with the control program to enable at least one specific functionality from the functionalities in response to a predetermined input being received from the user through the input device.

#### 22 Claims, 8 Drawing Sheets





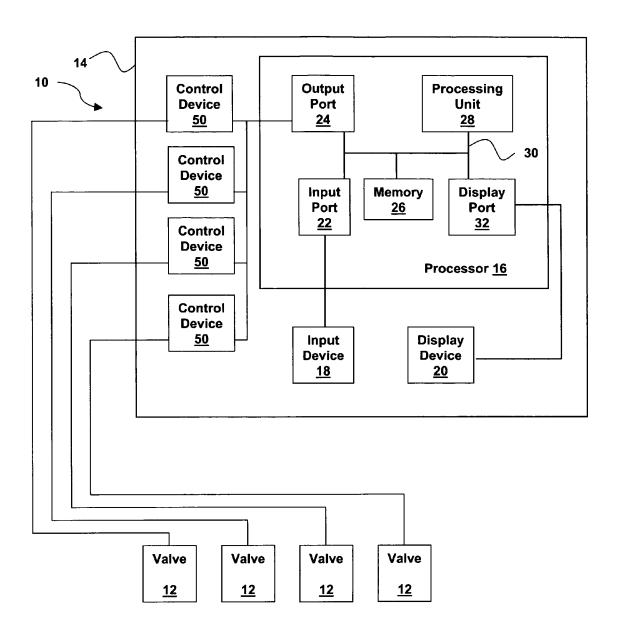
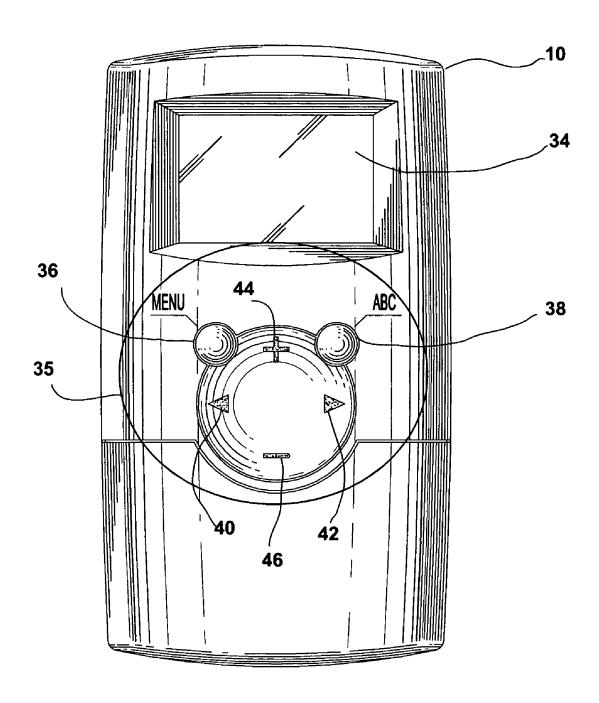
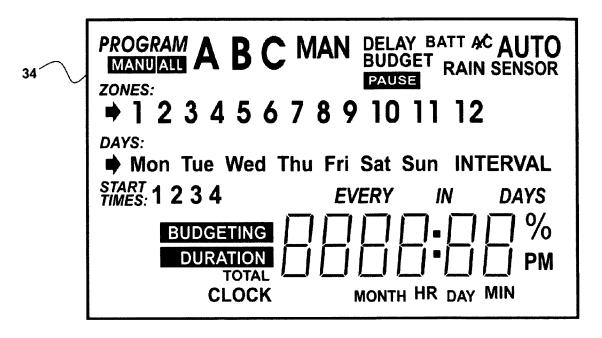


FIGURE 1

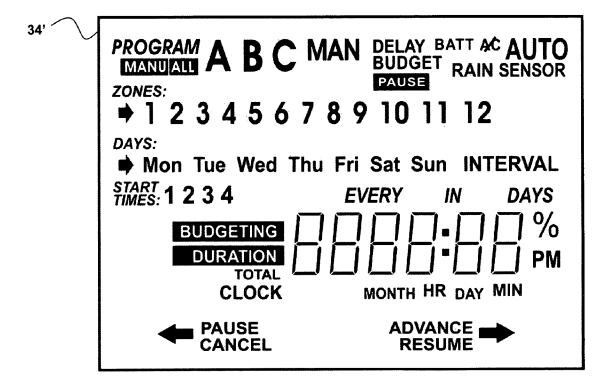








## FIGURE 3a



# FIGURE 3b



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