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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Hi))

[Continued on next page]

(54) **Title:** EXTERNAL MICROCONTROLLER FOR LED LIGHTING FIXTURE, LED LIGHTING FIXTURE WITH INTER-
NAL CONTROLLER, AND LED LIGHTING SYSTEM

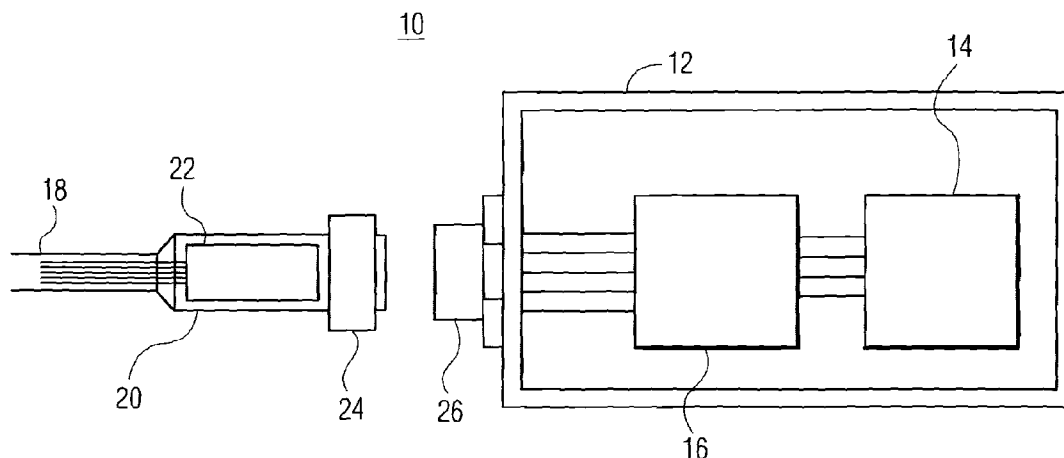


FIG 1A

FIG 1B

(57) **Abstract:** An LED lighting system (10) includes an LED lighting fixture (12) having at least one LED (14) and an external microcontroller (22, 28) for converting incoming lighting control data formatted according to the DMX512 standard to pulse-width modulated lighting control signals for input to the LED (14). The external microcontroller (22, 28) is preferably located inside a cable connector (20) adapted for releasably connecting a power cable (18) to the LED lighting fixture (12).

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/055273 A (COLOR KINETICS INC [US]) 3 July 2003 (2003-07-03) pages 14,23,53; figures 1,52,56 -----	1-18
A	US 6 175 771 B1 (HUNT MARK A [GB] ET AL) 16 January 2001 (2001-01-16) columns 2-5; figure 2 -----	1-18
A	US 2006/244622 A1 (WRAY DONALD L [US]) 2 November 2006 (2006-11-02) page 2; figures 1A-1C -----	1-18

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Further documents are listed in the continuation of Box C.



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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			EP 1459600 A2	22-09-2004
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US 6175771	B1	16-01-2001	NONE	
US 2006244622	A1	02-11-2006	NONE	