



US00D781469S

(12) **United States Design Patent**
Amrine, Jr. et al.

(10) **Patent No.:** **US D781,469 S**

(45) **Date of Patent:** **** Mar. 14, 2017**

(54) **LED LIGHT TUBE**

(71) Applicant: **iLumisys, Inc.**, Troy, MI (US)

(72) Inventors: **James M. Amrine, Jr.**, Ann Arbor, MI (US); **John Ivey**, Farmington Hills, MI (US)

(73) Assignee: **iLumisys, Inc.**, Troy, MI (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/532,391**

(22) Filed: **Jul. 7, 2015**

(51) **LOC (10) Cl.** **26-04**

(52) **U.S. Cl.**
USPC **D26/3**

(58) **Field of Classification Search**
USPC D26/1-4; 313/313, 315, 316, 317, 318, 313/493; 315/52, 53, 56, 57, 58
CPC H01J 5/48; H01J 5/50; H01J 19/54; F21V 5/00; F21K 9/13; F21K 9/135; F21K 9/1375

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,473,522	A	12/1995	Kriz et al.	
5,850,126	A	12/1998	Kanbar	
D437,947	S	2/2001	Huang	
6,227,679	B1	5/2001	Zhang et al.	
D477,093	S *	7/2003	Moriyama D26/3
6,598,996	B1	7/2003	Lodhie	
6,652,117	B2	11/2003	Tsai	
6,659,622	B2	12/2003	Katogi et al.	
6,851,832	B2	2/2005	Tieszen	
D506,274	S	6/2005	Moriyama et al.	
7,049,761	B2	5/2006	Timmermans et al.	

D553,267	S	10/2007	Yuen	
7,329,024	B2	2/2008	Lynch et al.	
D574,093	S	7/2008	Kitagawa et al.	
7,396,146	B2	7/2008	Wang	
D576,749	S	9/2008	Kitagawa et al.	
D581,556	S	11/2008	To et al.	
D584,429	S *	1/2009	Pei D26/3
7,510,299	B2	3/2009	Timmermans et al.	
7,514,876	B2	4/2009	Roach, Jr.	
7,521,872	B2	4/2009	Bruning	
D594,999	S	6/2009	Uchida et al.	

(Continued)

Primary Examiner — Marcus Jackson

(74) *Attorney, Agent, or Firm* — Fish & Richardson P.C.

(57) **CLAIM**

The ornamental design for an LED light tube, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a LED light tube showing our new design, with the broken line showing of the tube portion is included for the purpose of illustrating only and forms no part of the claimed design;

FIG. 2 is an enlarged perspective view thereof, with the center portion of the tube broken away to indicate indeterminate length;

FIG. 3 is a side elevational view thereof;

FIG. 4 is an opposite side elevational view thereof;

FIG. 5 is an end elevational view thereof;

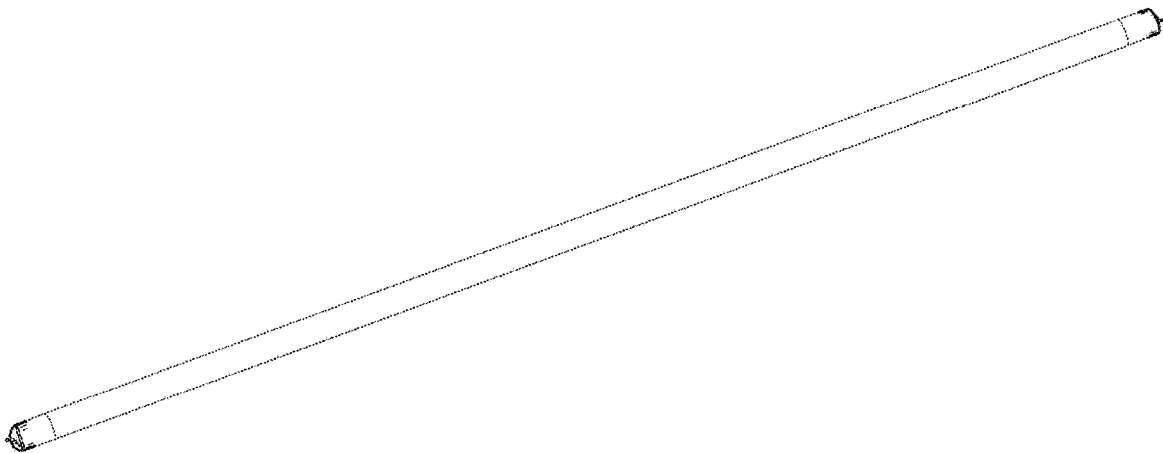
FIG. 6 is an opposite end elevational view thereof;

FIG. 7 is a top plan view thereof; and,

FIG. 8 is a bottom plan view thereof.

The shade lines show contour and not surface ornamentation. The broken lines are environmental and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D597,686 S	8/2009	Noh	7,946,729 B2	5/2011	Ivey et al.
7,594,738 B1	9/2009	Lin et al.	7,976,196 B2	7/2011	Ivey et al.
D601,726 S	10/2009	Mollaert et al.	7,990,070 B2	8/2011	Nerone
D610,724 S *	2/2010	Chiang D26/3	7,997,770 B1	8/2011	Meurer
D611,172 S	3/2010	Lin et al.	D650,097 S	12/2011	Trumble et al.
7,712,918 B2	5/2010	Siemiet et al.	D650,494 S	12/2011	Tsao et al.
7,758,207 B1	7/2010	Zhou et al.	D652,968 S	1/2012	Aguiar et al.
D621,975 S	8/2010	Wang	8,093,823 B1	1/2012	Ivey et al.
7,784,966 B2	8/2010	Verfuert et al.	D654,192 S	2/2012	Maxik et al.
7,815,338 B2	10/2010	Siemiet et al.	8,118,447 B2	2/2012	Simon et al.
7,850,341 B2	12/2010	Mrakovich et al.	D660,472 S	5/2012	Aguiar et al.
RE42,161 E	2/2011	Hochstein	D662,236 S *	6/2012	Matsushita D26/3
7,878,683 B2	2/2011	Logan et al.	2003/0218879 A1	11/2003	Tieszen
7,887,216 B2	2/2011	Patrick	2007/0195527 A1	8/2007	Russell
7,887,226 B2	2/2011	Huang et al.	2007/0285926 A1	12/2007	Maxik
D634,452 S	3/2011	de Visser	2009/0046473 A1	2/2009	Tsai et al.
D636,504 S	4/2011	Duster	2010/0270925 A1	10/2010	Withers
7,926,975 B2	4/2011	Siemiet et al.	2011/0090682 A1	4/2011	Zheng et al.
7,938,562 B2	5/2011	Ivey et al.	2011/0156584 A1	6/2011	Kim
			2011/0176298 A1	7/2011	Meurer et al.
			2011/0199769 A1	8/2011	Bretschneider et al.

* cited by examiner

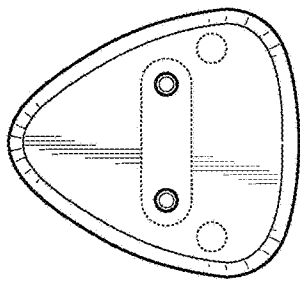


FIG. 5

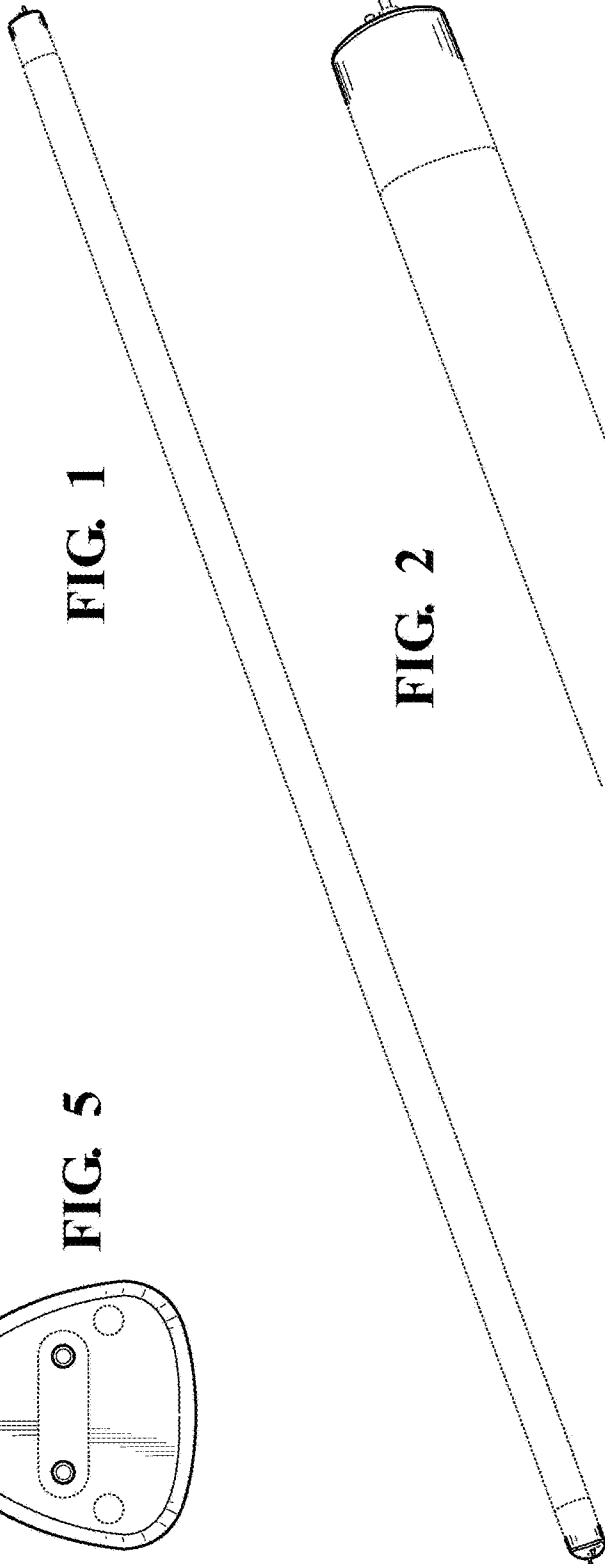


FIG. 1

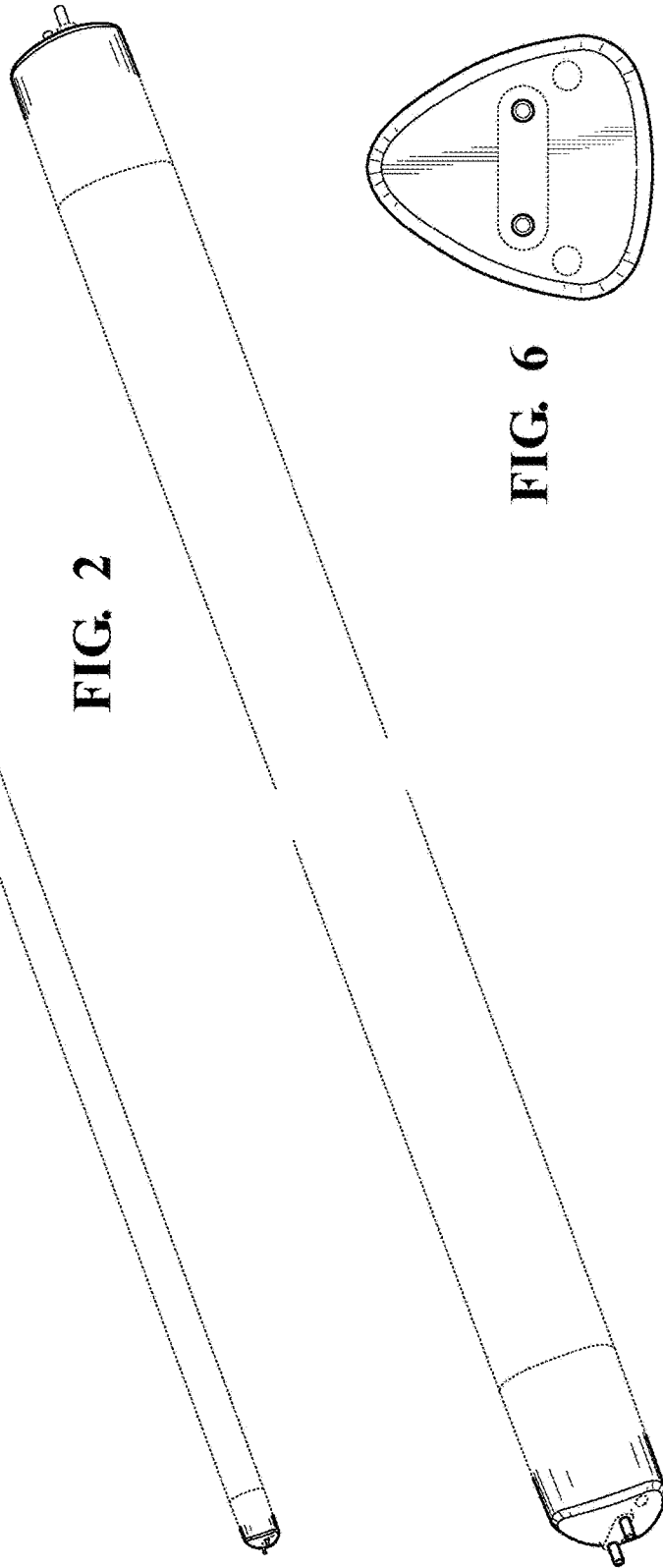


FIG. 2

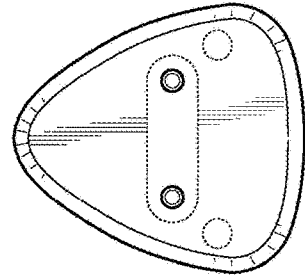


FIG. 6

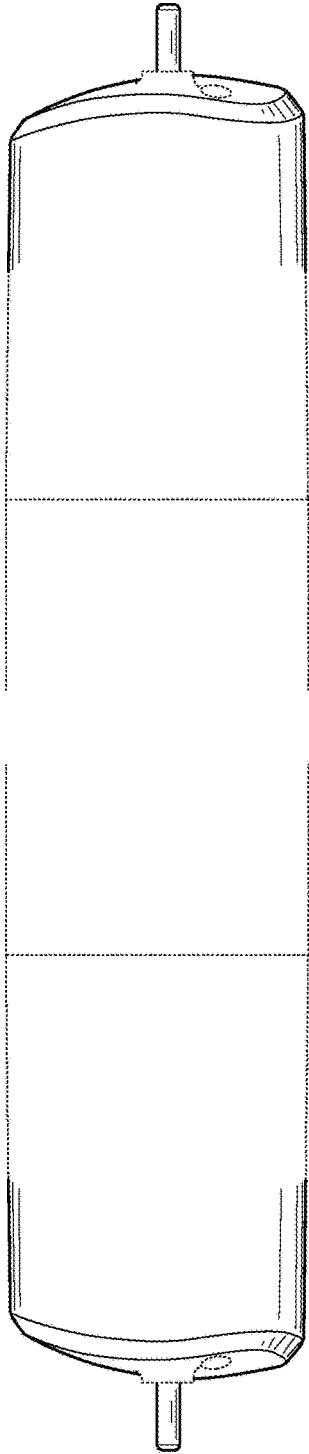


FIG. 3

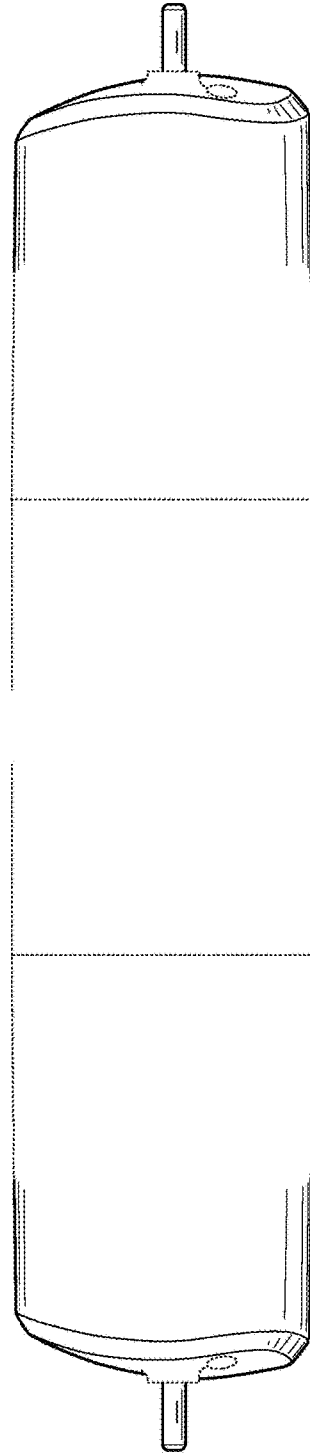


FIG. 4

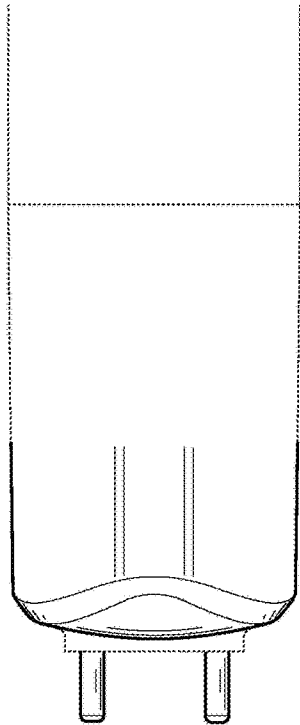
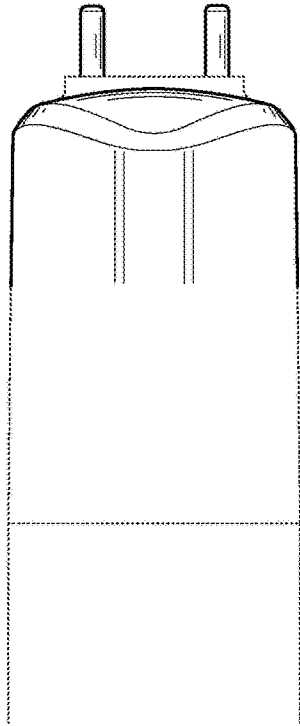


FIG. 7

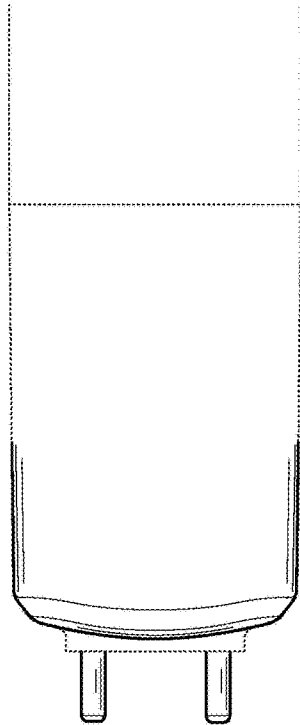
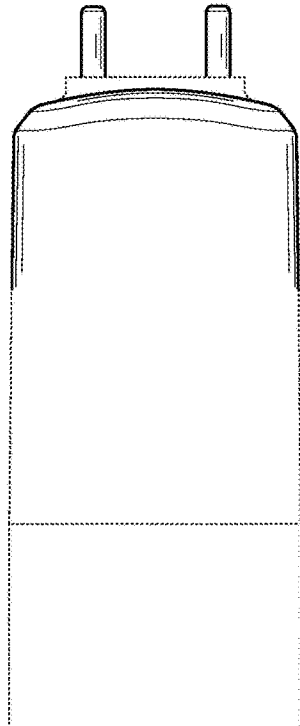


FIG. 8