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Sakurai et al.

# (10) Patent No.: US D1,089,089 S

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# (54) LIGHT-EMITTING ELEMENT MODULE

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(\*\*) Term: 15 Years

(21) Appl. No.: 29/798,715

(22) Filed: Jul. 9, 2021

## (30) Foreign Application Priority Data

Jar	n. 20, 2021	(JP)	) 2021-001	099 D
(51)	LOC (15)	Cl.		13-03

(52) U.S. Cl.

USPC ...... **D13/180** 

# (58) Field of Classification Search

USPC ....... D13/133, 180, 181, 199; D26/1, 2, 35, D26/120

CPC ........ H01L 33/04; H01L 33/08; H01L 33/10; H01L 33/20; H01L 33/38; H01L 33/42; H01L 25/167; H01L 25/0753; H01L 27/15; H01L 27/156; H01L 27/0248;

F21S 43/00; G02B 6/0028

See application file for complete search history.

# (56) References Cited

# U.S. PATENT DOCUMENTS

6,777,719 B1 8/2004 Fujii 9/2008 Itai 7,491,977 B2 2/2009 Fukasawa D590,355 S 4/2009 Tsuchiya et al. 4/2009 Miyashita (Continued)

#### FOREIGN PATENT DOCUMENTS

JP 1389544 S 6/2010

#### OTHER PUBLICATIONS

Notice of Allowance issued Jan. 21, 2025 for non-counterpart Design U.S. Appl. No. 29/798,678.

(Continued)

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### (57) CLAIM

The ornamental design for a light-emitting element module as shown and described.

#### DESCRIPTION

FIG. 1 is a front view of a light-emitting element module of the present invention;

FIG. 2 is a rear view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a front, top and right side perspective view thereof; FIG. 8 is a rear, bottom and left side perspective view thereof:

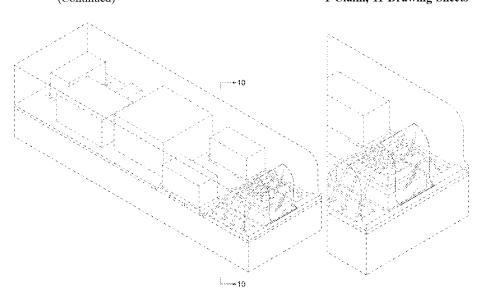
FIG. 9 is a sectional view thereof with inner mechanism is omitted taken along the line 9-9 in FIG. 3;

FIG. 10 is an enlarged view thereof defined by the line 10-10 in FIG. 7; and,

FIG. 11 is an enlarged sectional view thereof with inner mechanism is omitted defined by the line 11-11 in FIG. 9. The broken lines show portions of a light-emitting element module that form no part of the claimed design.

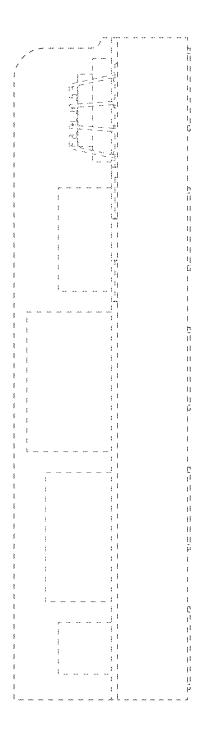
The alternate long and short dash lines define the bounds of the claimed design and form no part thereof.

# 1 Claim, 11 Drawing Sheets

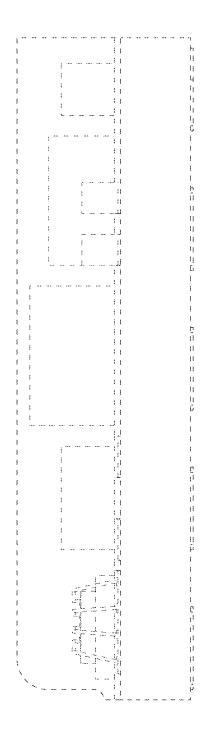


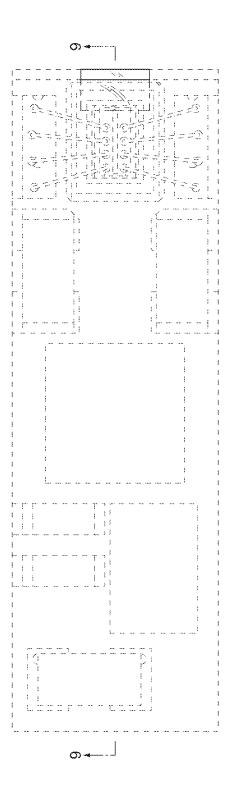
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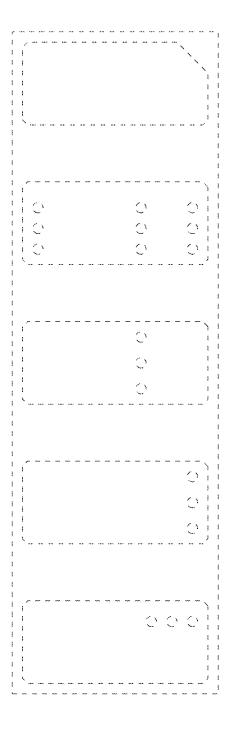
(56)		Referen	nces Cited	D847,102 S		Chen et al.
	U.S. 1	PATENT	DOCUMENTS	D856,946 S D906,270 S 11,935,910 B2	8/2019 12/2020 3/2024	
	D597,502 S	8/2000	Ogata et al.	D1,022,307 S		Tomney
	D599,303 S		Seo et al.	11,949,050 B2		Chen et al.
	7,589,354 B2*		Lin H01L 33/60	12,113,159 B2		Park et al.
	7,505,551 152	J, 200J	257/98	12,132,154 B2	10/2024	Lee et al.
	D602,884 S	10/2009	Wada et al.	D1,057,674 S	1/2025	
	7,675,087 B1*		Cheng H01L 25/167	D1,060,278 S		Trinkle et al.
	, ,		257/E33.057	D1,060,754 S	2/2025	
	D624,883 S	10/2010	Lin	D1,062,026 S		Kao et al.
	D624,886 S	10/2010	Ni et al.	D1,067,205 S		Hashimoto
	D626,097 S		Takeuchi et al.	2006/0214273 A1 2007/0034855 A1	2/2007	Wang et al. Hwang et al.
	D627,310 S		Lin et al.	2007/0063213 A1		Hsieh et al.
	D633,449 S	3/2011		2007/0096114 A1		Aoki et al.
	D640,644 S	6/2011		2008/0303018 A1		Kim et al.
	D640,994 S		Lin et al.	2009/0045428 A1*		Lin H01L 25/0753
	D644,190 S		Shimizu et al.			257/E33.057
	D649,942 S D653,222 S		Shimizu et al. Fukui et al.	2010/0006888 A1	1/2010	Watanabe et al.
	D653,628 S		Miyashita	2010/0123145 A1	5/2010	
	D653,629 S		Miyashita	2011/0180782 A1	7/2011	Fattal et al.
	D656,110 S		Shimizu et al.	2013/0068936 A1	3/2013	
	D663,703 S *		Kobayakawa D13/180	2015/0211935 A1		Ojima et al.
	D664,104 S	7/2012		2020/0013759 A1		Yoo et al.
	D668,623 S	10/2012	Hsu	2021/0005590 A1		Ishii et al.
	D674,965 S	1/2013	Lueken et al.	2021/0183825 A1		Wuu et al.
	D708,154 S		Hayashi	2021/0348739 A1 2021/0358998 A1		Lee et al. Kishimoto
	D724,549 S *		Song D13/180	2021/0398479 A1	12/2021	
	D731,989 S		Huang et al.	2022/0052229 A1		Min et al.
	D737,784 S	9/2015		2022/0181532 A1		Hasunuma
	D741,821 S D744,965 S	10/2015	Chen et al.	2022/0279638 A1		Iwazaki et al.
	D763,805 S		Huang et al.	2023/0126339 A1	4/2023	Do
	D774,475 S	12/2016		2023/0411563 A1	12/2023	
	D774,476 S	12/2016		2024/0204150 A1		Kawano
	D778,846 S	2/2017		2024/0222565 A1	7/2024	Do
	D778,847 S	2/2017	Song			
	D783,547 S		Bergmann et al.	OTI	HER PU	BLICATIONS
	D792,639 S		Deyaf et al.			
	D793,002 S		Kim et al.	Office Action dated F	eb. 4, 20	25 that issued in U.S. Appl. No.
	D797,359 S		Deyaf et al.	29/798,752.		
	D797,360 S		Deyaf et al.	"Lumistrips the new C	hip Scale	Packaged Flip Chip LED technol-
	D797,361 S D797,362 S		Deyaf et al. Deyaf et al.	ogy", Lumistrips LEI	) Profess	ional https://www.lumistrips.com/
	D797,362 S D797,363 S		Deyaf et al.	lumistrips-blog/chip_se	cale_leds_	explained, Mar. 12, 2020.
	D797,364 S		Deyaf et al.			y improves performance", phys.org
	D797,365 S		Deyaf et al.	https://phys.org/news/2	012-09-pa	ackaging-technology. html, Sep. 25,
	D797,366 S		Deyaf et al.	2012.	_	
	D799,103 S		Gloor et al.	Notice of Allowance of	dated Apr	23, 2025 in related Design U.S.
	D831,593 S		Nishio et al.	Appl. No. 29/798,677.	•	-
	D832,802 S		Nishio et al.			
	D846,511 S	4/2019	Nishio et al.	* cited by examiner		
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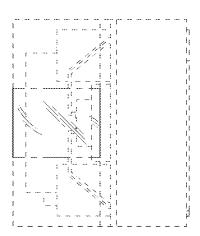


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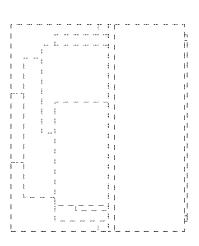








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