



US00D899384S

(12) **United States Design Patent**  
**Elwell et al.**

(10) **Patent No.:** **US D899,384 S**

(45) **Date of Patent:** **\*\* Oct. 20, 2020**

- (54) **SURFACE-MOUNT DEVICE**
- (71) Applicant: **Putco, Inc.**, Des Moines, IA (US)
- (72) Inventors: **James P. Elwell**, Grimes, IA (US);  
**James P. Elwell, II**, Grimes, IA (US);  
**Joshua J. Burhite**, Des Moines, IA (US);  
**Tian Xiaojun**, Guangzhou (CN)
- (73) Assignee: **Putco, Inc.**, Des Moines, IA (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/723,356**
- (22) Filed: **Feb. 6, 2020**

D494,286 S *	8/2004	Matsui	.....	D13/180
D506,187 S	6/2005	Wang et al.		
D507,544 S	7/2005	Wang et al.		
D509,809 S	9/2005	Wang et al.		
D514,530 S *	2/2006	Matsui	.....	D13/180
D515,517 S *	2/2006	Matsui	.....	D13/180
D522,974 S *	6/2006	Egawa	.....	D13/180
D522,975 S *	6/2006	Egawa	.....	D13/180
D529,203 S *	9/2006	Nagai	.....	D26/1
D565,757 S *	4/2008	Matsui	.....	D26/1
D566,056 S	4/2008	Edmond et al.		
D566,057 S	4/2008	Edmond et al.		
D573,551 S	7/2008	Lee		
D574,337 S	8/2008	Panaccione et al.		
D582,865 S	12/2008	Edmond et al.		
D582,866 S	12/2008	Edmond et al.		
D593,968 S	6/2009	Edmond et al.		
D607,423 S *	1/2010	Lu	.....	D13/180
D619,110 S	7/2010	Lin et al.		
D635,525 S	4/2011	Edmond et al.		
8,227,815 B2 *	7/2012	Park	.....	G02F 1/133603 257/88

**Related U.S. Application Data**

- (63) Continuation-in-part of application No. 16/673,434, filed on Nov. 4, 2019.
- (51) **LOC (12) Cl.** ..... **13-03**
- (52) **U.S. Cl.** ..... **D13/180**  
USPC ..... **D13/180**
- (58) **Field of Classification Search**  
USPC ..... D13/180; D24/1  
CPC ... H01L 25/167; H01L 25/0753; H01L 27/15;  
H01L 27/156; H01L 31/02; H01L 33/00;  
H01L 33/04; H01L 33/08; H01L 33/10;  
H01L 33/20; H01L 33/38; H01L 33/42;  
H01L 33/48; H01L 33/483; H01L 33/486;  
F21K 9/00  
See application file for complete search history.

**References Cited**

**U.S. PATENT DOCUMENTS**

5,162,696 A *	11/1992	Goodrich	.....	G09F 9/33 257/E25.02
6,299,337 B1 *	10/2001	Bachl	.....	F21V 29/89 362/545

(Continued)

*Primary Examiner* — Selina Sikder

(74) *Attorney, Agent, or Firm* — McKee, Voorhees & Sease, PLC

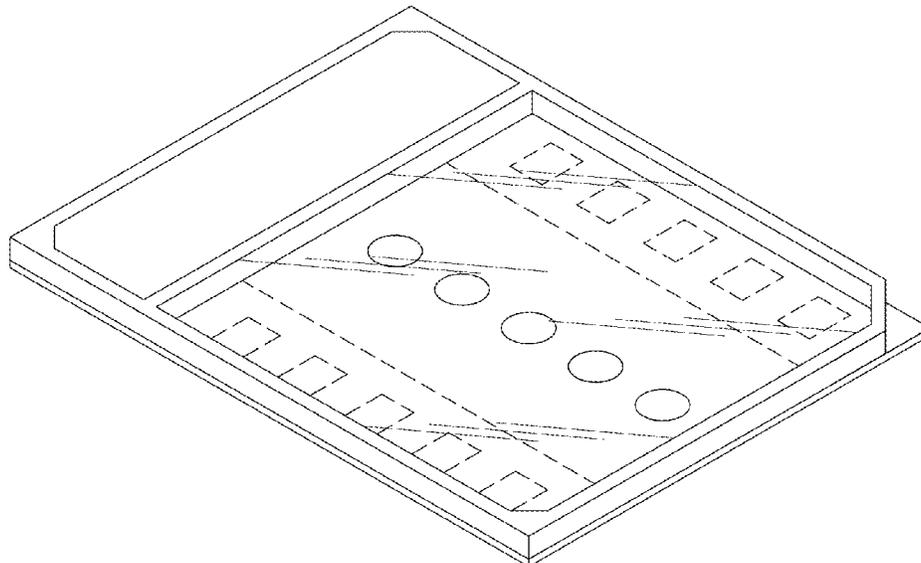
(57) **CLAIM**

The ornamental design for a surface-mount device, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a surface-mount device; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a left-side view thereof; FIG. 5 is a right-side view thereof; FIG. 6 is a top view thereof; and, FIG. 7 is a bottom view thereof. Structure and environment shown in broken lines form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D668,234 S	10/2012	Lee et al.	D730,303 S	5/2015	Chou et al.
D669,869 S	10/2012	Lee et al.	D745,474 S *	12/2015	Feng ..... D13/180
D673,126 S	12/2012	Donofrio et al.	D768,094 S *	10/2016	Chen ..... D13/180
D674,357 S	1/2013	Lin et al.	D769,199 S *	10/2016	Chen ..... D13/180
D674,358 S	1/2013	Lin et al.	D786,460 S	5/2017	Wu et al.
D674,359 S	1/2013	Lin et al.	D787,712 S	5/2017	Wu et al.
D674,360 S	1/2013	Lin et al.	D794,582 S	8/2017	Zhang et al.
D674,361 S	1/2013	Lin et al.	D795,822 S	8/2017	Zhang et al.
D674,362 S	1/2013	Lin et al.	D824,343 S	7/2018	Zhu et al.
D674,363 S	1/2013	Lin et al.	D824,864 S *	8/2018	Chen ..... D13/180
D675,169 S	1/2013	Chou	D872,038 S	1/2020	Pan et al.
D680,976 S	4/2013	Lee et al.	D873,164 S	1/2020	Goltche
D684,548 S	6/2013	Chu	10,615,308 B2 *	4/2020	Noichi ..... H01L 33/38
D684,549 S	6/2013	Chu et al.	2004/0129946 A1 *	7/2004	Nagai ..... F21K 9/00
D684,940 S	6/2013	Chu et al.			257/98
D684,941 S	6/2013	Chu et al.	2006/0141851 A1 *	6/2006	Matsui ..... F21V 29/73
D685,334 S	7/2013	Chu et al.			439/490
D686,173 S	7/2013	Chou et al.	2007/0023769 A1 *	2/2007	Nishimoto ..... F21K 9/20
D687,395 S	8/2013	Chu			257/88
D689,834 S	9/2013	Chu et al.	2007/0285922 A1 *	12/2007	Chen ..... F21V 19/001
D690,670 S	10/2013	Chu et al.			362/240
D691,100 S	10/2013	Chan et al.	2010/0163917 A1 *	7/2010	Chiang ..... F21V 31/04
D691,569 S	10/2013	Edmond et al.			257/99
D693,779 S	11/2013	Chu et al.	2011/0169408 A1 *	7/2011	Chen ..... F21K 9/00
D693,780 S	11/2013	Chen et al.			315/51
D694,202 S *	11/2013	Lin ..... D13/180	2014/0191268 A1 *	7/2014	Ebisawa ..... H01L 33/42
D709,039 S	7/2014	Ko et al.			257/98
D709,042 S	7/2014	Cai	2017/0084586 A1 *	3/2017	Chen ..... H01L 25/0753
D712,851 S	9/2014	Cai et al.	2017/0261161 A1 *	9/2017	Moon ..... F21V 3/02
D729,752 S	5/2015	Chou et al.	2018/0145224 A1 *	5/2018	Kim ..... H01L 33/46
			2019/0189680 A1 *	6/2019	Oh ..... H01L 27/15

\* cited by examiner

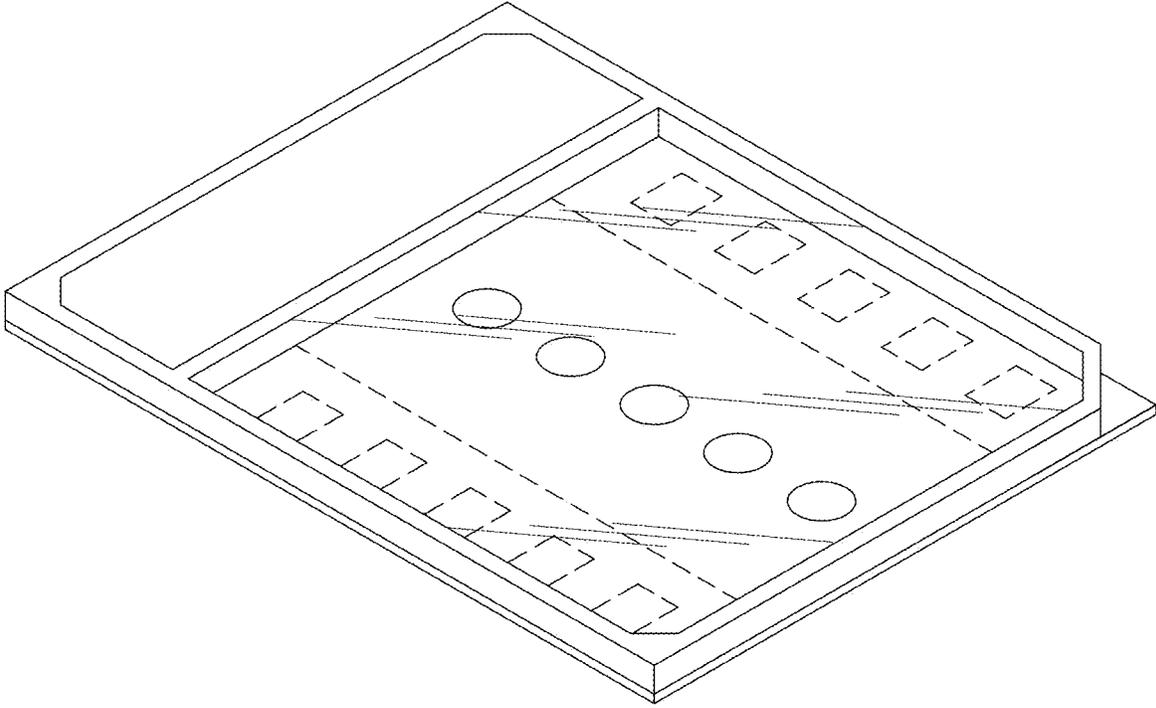


FIG. 1

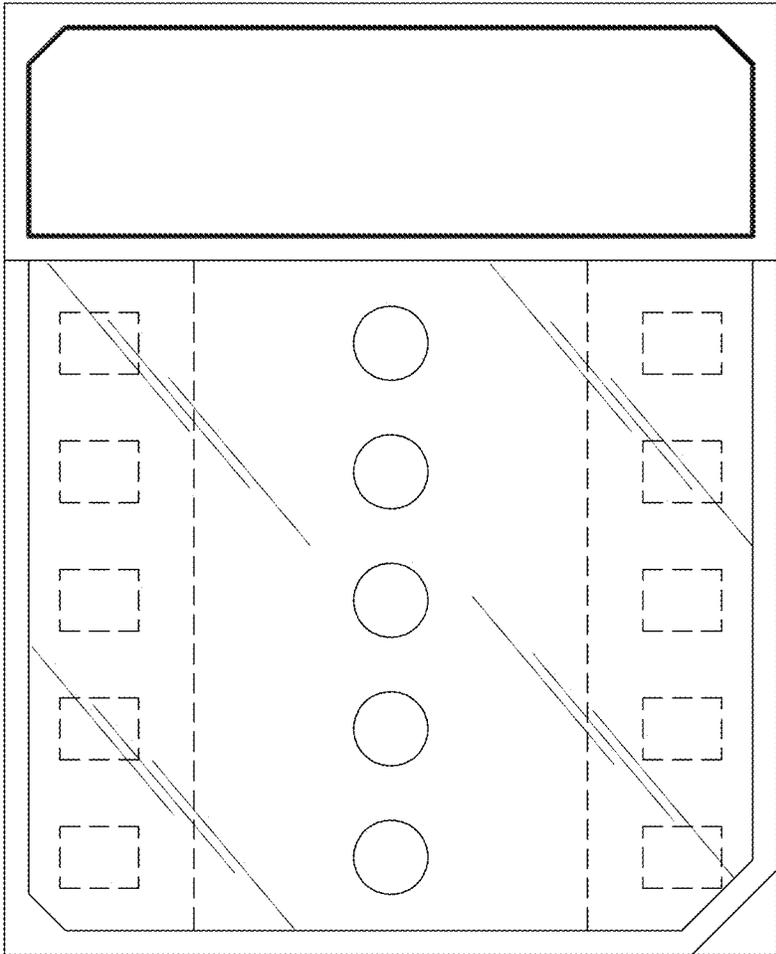
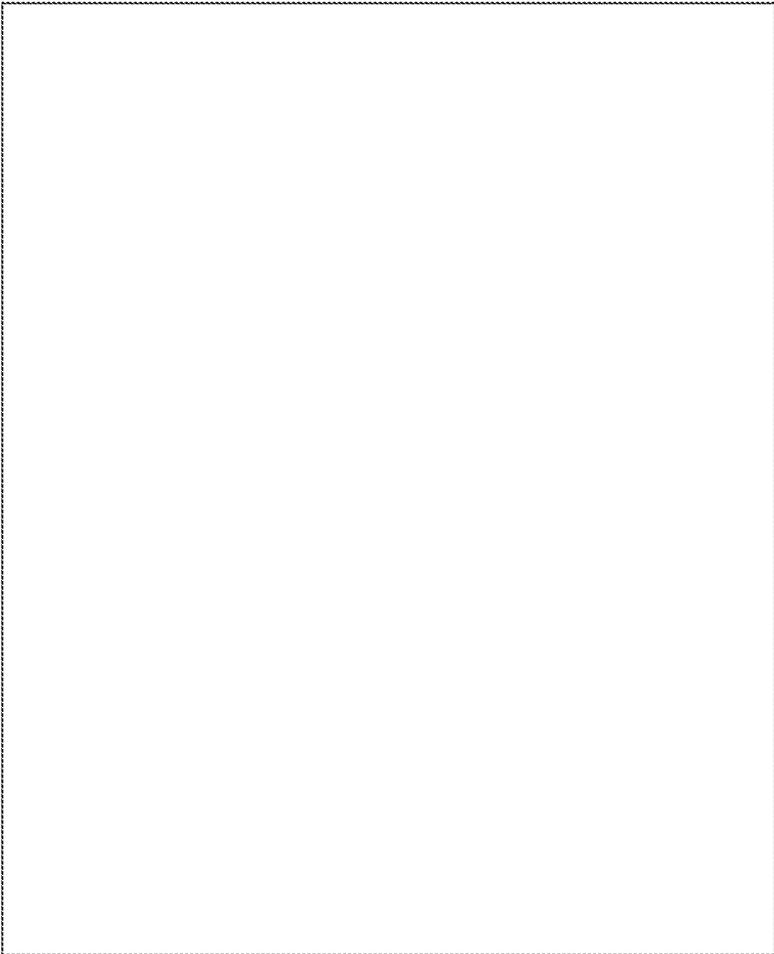
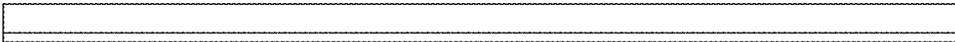


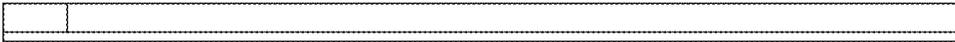
FIG. 2



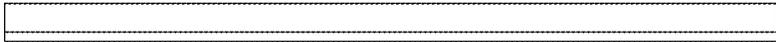
***FIG. 3***



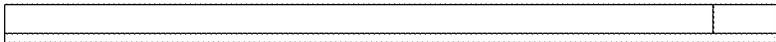
*FIG. 4*



*FIG. 5*



*FIG. 6*



*FIG. 7*