



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

(10) **Patent No.:** **US D993,673 S**
(45) **Date of Patent:** **** Aug. 1, 2023**

(54) **MATTRESS**

(71) Applicant: **Casper Sleep Inc.**, New York, NY (US)

(72) Inventors: **Martin Kay**, San Francisco, CA (US);
Ara Acle, Oakland, CA (US); **Rebecca (Caroline) Cockerham**, Brooklyn, NY (US); **John-Rhys Newman**, Los Angeles, CA (US)

(73) Assignee: **CASPER SLEEP INC.**, New York, NY (US)

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

(21) Appl. No.: **29/756,424**

(22) Filed: **Oct. 28, 2020**

Related U.S. Application Data

(62) Division of application No. 29/703,367, filed on Aug. 27, 2019, now Pat. No. Des. 908,398.

(51) **LOC (14) Cl.** **06-09**

(52) **U.S. Cl.**
USPC **D6/605**

(58) **Field of Classification Search**
USPC D6/582-583, 587-592, 595-609,
D6/617-622; D21/803-809; D24/183
CPC A47C 17/38; A47C 17/52; A47C 17/84;
A47C 17/86; A47C 23/002; A47C 23/02;
A47C 23/43; A47C 23/47; A47C 23/34;
A47C 27/00; A47G 9/00; A47G 9/02;
A47G 9/0207; A47G 9/0215; A47G
9/0223; A47G 9/023; A47G 9/0238;
A47G 9/0246; A47G 9/0253; A47G
9/0261; A47G 9/06; A47G 9/062; A47G
9/066; A47G 9/068; A47G 9/08; A47G
9/0284; A47G 9/0292; A47G
2009/001-006; A47G 2009/0276

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,893,548 A 1/1933 Hardy
2,032,248 A 2/1936 Bins
D107,880 S 1/1938 Marsack
(Continued)

FOREIGN PATENT DOCUMENTS

CA 2044355 C 1/1995
CA 2054349 C 3/1995
(Continued)

OTHER PUBLICATIONS

GB1010773, Application date: Sep. 3, 1982, Intellectual Property Office of Great Britain, Publication date: Jul. 11, 1983, Owner: Support Systems International. (Year: 1983).*

(Continued)

Primary Examiner — Mary Ann Calabrese
Assistant Examiner — Harper E Comstock
(74) *Attorney, Agent, or Firm* — Koffsky Schwalb LLC;
Mark I. Koffsky

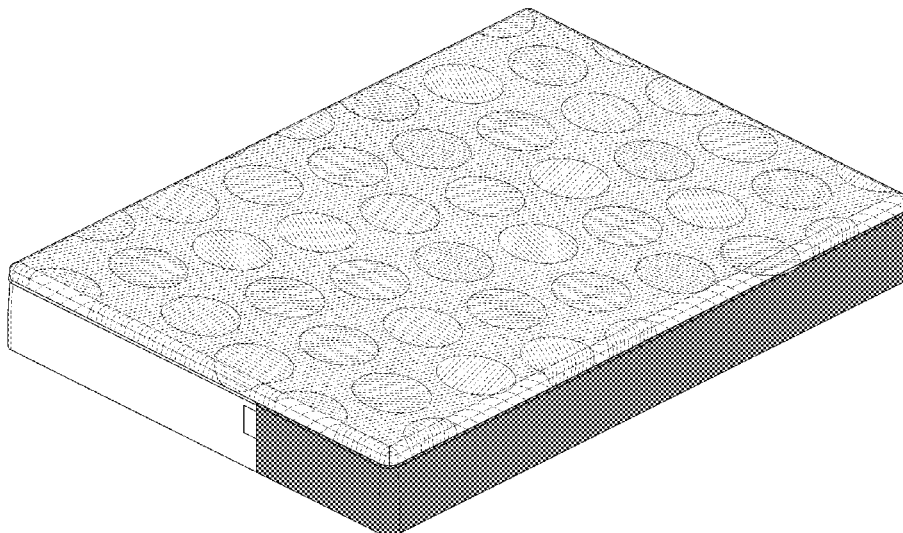
CLAIM

(57) We claim the ornamental design for a mattress, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a mattress in accordance with the present design;
FIG. 2 is a top view thereof;
FIG. 3 is a bottom view thereof;
FIG. 4 is a left view thereof;
FIG. 5 is a right view thereof;
FIG. 6 is a front view thereof; and,
FIG. 7 is a rear view thereof.
The dashed lines in the figures form a part of the claimed design.

1 Claim, 7 Drawing Sheets



US D993,673 S

(56)

References Cited

U.S. PATENT DOCUMENTS

2,399,235	A	4/1946	Leslie		7,103,933	B2	9/2006	Gladney
2,399,625	A	4/1946	Leslie		7,147,538	B2	12/2006	Cano
2,604,642	A *	7/1952	Marco A47C 27/20 5/655.9	7,155,766	B1	1/2007	Gilchrest, Jr.
3,400,413	A	9/1968	La Grossa		7,165,281	B2	1/2007	Larsson
D256,734	S	9/1980	Riley		D551,704	S	9/2007	Nakamura
4,407,031	A	10/1983	Michiels		D564,239	S	3/2008	Mecchi
4,536,906	A	8/1985	Varndell		D581,713	S	12/2008	Berke
4,542,547	A	9/1985	Sato		7,530,127	B2	5/2009	Leifermann
4,628,557	A	12/1986	Murphy		D593,349	S	6/2009	Pittman
4,768,251	A	9/1988	Baskent		7,614,362	B2	11/2009	Dunn
4,788,730	A	12/1988	Bexton		D605,337	S	12/2009	Zhang
D301,412	S	6/1989	Duvivier		D608,560	S	1/2010	Chen
4,964,184	A	10/1990	Lewis		D608,561	S	1/2010	Chen
5,010,843	A	4/1991	Henry		D608,562	S	1/2010	Chen
5,023,967	A	6/1991	Ferrand		7,788,750	B2	9/2010	Norstrom
5,023,970	A	6/1991	Tesch		D629,150	S	12/2010	Douloubakas
5,107,558	A	4/1992	Lueck		D634,148	S	3/2011	Morrison
5,170,522	A	12/1992	Walker		7,908,687	B2	3/2011	Ward
5,189,747	A	3/1993	Mundy		7,914,611	B2	3/2011	Vrzalik
5,219,307	A	6/1993	Morrison		7,921,807	B2	4/2011	Arvanites
5,291,625	A	3/1994	Leslie		7,937,789	B2	5/2011	Feher
5,294,181	A	3/1994	Rose		7,950,084	B1	5/2011	McKay
5,448,788	A	9/1995	Wu		D639,492	S	6/2011	Lee
5,509,154	A	4/1996	Shafer		8,051,514	B2	11/2011	Yarmer
5,561,876	A	10/1996	Petruszella		8,065,763	B2	11/2011	Brykalski
5,564,140	A	10/1996	Shoenhair		8,118,920	B2	2/2012	Vrzalik
5,642,546	A	7/1997	Shoenhair		D657,150	S	4/2012	Hughes
5,652,484	A	7/1997	Shafer		D658,412	S	5/2012	Hoyord
D383,028	S	9/1997	Pierce		8,181,290	B2	5/2012	Brykalski
5,730,120	A	3/1998	Yonkers, Jr.		D663,077	S	7/2012	Pohl
5,765,246	A	6/1998	Shoenhair		D664,303	S	7/2012	Chauncey
5,903,941	A	5/1999	Shafer		8,245,339	B2	8/2012	Murray
5,904,172	A	5/1999	Giff		8,256,236	B2	9/2012	Lofy
D411,057	S	6/1999	Johnson, Jr.		8,307,482	B2	11/2012	Gladney
6,037,723	A	3/2000	Shafer		8,336,369	B2	12/2012	Mahoney
6,061,856	A	5/2000	Hoffmann		D674,644	S	1/2013	Stewart
6,108,843	A	8/2000	Suzuki		D675,855	S	2/2013	Reeves
6,115,861	A	9/2000	Reeder		8,372,182	B2	2/2013	Vrzalik
6,175,890	B1	1/2001	Yamaura		8,402,578	B2	3/2013	Ko
6,175,980	B1	1/2001	Gaither		D679,870	S	4/2013	Williams
6,192,538	B1	2/2001	Fogel		8,448,315	B2	5/2013	Rensink
6,196,157	B1	3/2001	Northrop		8,490,233	B2	7/2013	Essers
6,202,239	B1	3/2001	Ward		8,512,854	B2	8/2013	Fox
6,212,718	B1	4/2001	Stolpmann		D694,746	S	12/2013	Akana
6,286,167	B1	9/2001	Stolpmann		D696,044	S	12/2013	Robilotto
6,301,730	B1	10/2001	Delfs		8,621,687	B2	1/2014	Brykalski
6,305,317	B1	10/2001	Spiegel		D699,983	S	2/2014	Polesuk
6,336,237	B1	1/2002	Schmid		8,672,842	B2	3/2014	Kenalty
6,397,419	B1	6/2002	Mechache		D702,971	S	4/2014	Mitchell
6,421,859	B1	7/2002	Hicks		D702,972	S	4/2014	Busch
6,483,264	B1	11/2002	Shafer		8,739,339	B1	6/2014	McKay
6,546,576	B1	4/2003	Lin		8,745,784	B2	6/2014	Cole
6,557,198	B1	5/2003	Gladney		8,745,795	B2	6/2014	Klancnik
6,658,683	B2	12/2003	Parvin		8,769,747	B2	7/2014	Mahoney
D486,665	S	2/2004	Weaver		8,789,224	B2	7/2014	Wyatt
D486,877	S	2/2004	Peterson		8,800,979	B2	8/2014	Defranks
D486,969	S	2/2004	Weaver		D713,165	S	9/2014	Robinson
6,686,711	B2	2/2004	Rose		8,832,888	B2	9/2014	Chunglo
D487,207	S	3/2004	Manuel		8,863,336	B2	10/2014	Theosabrata
6,708,357	B2	3/2004	Gaboury		8,881,328	B2	11/2014	Mikkelsen
6,763,541	B2	7/2004	Mahoney		D720,157	S	12/2014	Villena
6,804,848	B1	10/2004	Rose		8,918,930	B2	12/2014	Stroh
6,807,698	B2	10/2004	Torbet		8,931,329	B2	1/2015	Mahoney
6,832,397	B2	12/2004	Gaboury		8,933,140	B2	1/2015	Peterson
6,854,143	B2	2/2005	Sharples		D722,239	S	2/2015	Russell
6,883,191	B2	4/2005	Gaboury		8,959,683	B2	2/2015	Rochlin
6,895,620	B1	5/2005	Rensink		D723,304	S	3/2015	Chang
6,931,685	B2	8/2005	Kuchel		D724,254	S	3/2015	Sun
6,952,850	B2	10/2005	Visser		D725,832	S	3/2015	Coulter
6,971,128	B1	12/2005	McGrath		8,966,689	B2	3/2015	McGuire
6,983,500	B2	1/2006	Wootten		8,973,183	B1	3/2015	Palashewski
7,036,172	B2	5/2006	Torbet		8,984,687	B2	3/2015	Stusynski
7,036,173	B2	5/2006	Gladney		8,984,690	B2	3/2015	Chunglo
D525,740	S	7/2006	Parker		8,997,279	B1	4/2015	McKay
					9,009,898	B2	4/2015	Morimura
					D728,254	S	5/2015	Karnes-Toth
					D728,271	S	5/2015	Cohen
					D731,209	S	6/2015	Fux
					9,085,125	B2	7/2015	Gesquière

US D993,673 S

(56)

References Cited

U.S. PATENT DOCUMENTS

D736,537 S	8/2015	Grossman	10,051,973 B2	8/2018	Morgan	
9,095,224 B2	8/2015	Tanaka	10,058,467 B2	8/2018	Stusynski	
9,119,478 B2	9/2015	Defranks	10,092,242 B2	10/2018	Nunn	
9,125,497 B2	9/2015	Brykalski	10,105,092 B2	10/2018	Franceschetti	
9,138,064 B2	9/2015	Tursi, Jr.	10,136,735 B2	11/2018	Ocegueda	
9,186,479 B1	11/2015	Franceschetti	D836,849 S	12/2018	Romaya	
9,192,245 B2	11/2015	Chunglo	10,143,312 B2	12/2018	Brosnan	
9,204,731 B2	12/2015	Corodemus	10,149,549 B2	12/2018	Erko	
9,204,732 B2	12/2015	Wyatt	10,154,932 B2	12/2018	Franceschetti	
9,211,017 B2	12/2015	Tyree	10,179,526 B2	1/2019	Marquette	
D747,899 S	1/2016	Klein	10,182,661 B2	1/2019	Nunn	
9,259,099 B1	2/2016	Larsen	D840,732 S	2/2019	Karschnik	
9,265,352 B2	2/2016	Oakhill	10,194,752 B2	2/2019	Zaiss	
9,271,579 B2	3/2016	Riley	10,194,753 B2	2/2019	Fleury	
9,326,903 B2	5/2016	Locke	10,201,234 B2	2/2019	Nunn	
9,326,904 B2	5/2016	Nomura	10,202,499 B2	2/2019	Crawford	
9,370,457 B2	6/2016	Nunn	D843,418 S	3/2019	Demin	
9,386,862 B1	7/2016	Limer	10,251,490 B2	4/2019	Nunn	
9,392,875 B2	7/2016	Weyl	D848,051 S	5/2019	Huang	
9,392,879 B2	7/2016	Nunn	10,285,508 B2	5/2019	Rose	
D766,017 S	9/2016	Jensen	D850,161 S	6/2019	Ping	
9,445,751 B2	9/2016	Young	D850,682 S	6/2019	DeBrunner	
9,474,384 B2	10/2016	Rawls-Meehan	10,314,407 B1	6/2019	Main	
D770,672 S	11/2016	Ju	10,342,358 B1	7/2019	Palashewski	
9,504,332 B2	11/2016	Gladney	10,357,113 B2	7/2019	Gladney	
D773,209 S	12/2016	Jaigobin	10,357,115 B2	7/2019	Oh	
9,510,688 B2	12/2016	Nunn	D860,257 S	9/2019	Akana	
9,510,698 B1	12/2016	Krotova	D861,227 S	9/2019	Sonneman	
D776,960 S	1/2017	Suzuki	D861,964 S	10/2019	Lin	
9,538,853 B2	1/2017	Vrzalik	D863,356 S	10/2019	Akana	
9,538,855 B2	1/2017	Gross	D864,615 S	10/2019	Morrison	
D778,637 S	2/2017	Barry	10,441,086 B2	10/2019	Nunn	
D779,856 S	2/2017	Rich	10,441,087 B2	10/2019	Karschnik	
9,578,941 B2	2/2017	MacLachlan	10,448,749 B2	10/2019	Palashewski	
D781,078 S	3/2017	Goenka	D865,402 S	11/2019	Morrison	
9,597,244 B2	3/2017	Ishibashi	10,463,165 B2	11/2019	Ishibashi	
9,609,951 B2	4/2017	Chan	10,470,583 B2	11/2019	Gross	
9,622,589 B2	4/2017	Nomura	10,477,975 B2	11/2019	Tursi, Jr.	
D785,370 S	5/2017	Randall	10,492,969 B2	12/2019	Stusynski	
D785,968 S	5/2017	Burden	10,531,745 B2	1/2020	Chen	
9,635,953 B2	5/2017	Nunn	10,539,170 B2	1/2020	Griffith	
9,642,472 B2	5/2017	Gladney	D898,414 S *	10/2020	Roma	D6/596
9,657,800 B2	5/2017	Defranks	D908,398 S *	1/2021	Kay	D6/605
D790,257 S	6/2017	Holbrook	D909,794 S *	2/2021	Marino	D6/606
D791,494 S	7/2017	Bosch	D919,333 S *	5/2021	Kay	D6/605
9,694,156 B2	7/2017	Franceschetti	D970,262 S *	11/2022	Sylvain	D6/605
9,730,524 B2	8/2017	Chen	2001/0027334 A1	10/2001	White	
9,737,150 B2	8/2017	Rawls-Meehan	2001/0029628 A1	10/2001	Ferrand	
9,737,154 B2	8/2017	Mahoney	2002/0069462 A1	6/2002	Gaboury	
D796,725 S	9/2017	Recker	2003/0181538 A1	9/2003	Martel	
D798,077 S	9/2017	Schmitt	2003/0233706 A1	12/2003	Birch	
9,770,114 B2	9/2017	Brosnan	2004/0134433 A1	7/2004	Holder	
9,770,117 B1	9/2017	Torbet	2004/0154101 A1	8/2004	Digirolamo	
D799,858 S	10/2017	Pearce	2005/0087142 A1	4/2005	Dalal	
9,782,311 B2	10/2017	Lafleche	2005/0210595 A1	9/2005	Di Stasio	
9,788,661 B1	10/2017	Alletto	2005/0224000 A1	10/2005	Holte	
D802,324 S	11/2017	Bucove	2006/0042008 A1	3/2006	Baker	
D804,856 S	12/2017	Desodt	2006/0046024 A1	3/2006	Huntley	
9,844,275 B2	12/2017	Nunn	2006/0053560 A1	3/2006	Metzger	
9,861,208 B2	1/2018	Carlitz	2006/0053561 A1	3/2006	Metzger	
D809,321 S	2/2018	Bell	2006/0085919 A1	4/2006	Kramer	
D810,458 S	2/2018	Cartier	2006/0254526 A1	11/2006	Andriola	
9,888,782 B1	2/2018	Jannke	2006/0272582 A1	12/2006	Dunn	
D812,393 S	3/2018	Karschnik	2007/0040424 A1	2/2007	Neustat	
D812,643 S	3/2018	Akana	2007/0088392 A1*	4/2007	Skiba	A47G 9/0253 5/737
9,907,408 B2	3/2018	Vrzalik	2007/0101496 A1	5/2007	Ho	
9,918,558 B2	3/2018	Limer	2007/0107133 A1	5/2007	Schwaiger	
D815,335 S	4/2018	Lin	2007/0226911 A1	10/2007	Gladney	
9,930,971 B2	4/2018	Dóczy	2007/0256241 A1	11/2007	Harmon	
9,931,085 B2	4/2018	Young	2007/0273539 A1	11/2007	Gananathan	
9,949,573 B1	4/2018	Huang	2008/0010746 A1	1/2008	Ho	
9,962,902 B2	5/2018	Losio	2008/0010751 A1	1/2008	Kemper	
D822,911 S	7/2018	Menayan	2008/0028536 A1	2/2008	Hadden-Cook	
10,016,064 B2	7/2018	Corodemus	2008/0052830 A1	3/2008	Koughan	
D824,698 S	8/2018	Pennington	2008/0116403 A1	5/2008	Shelbourn	
			2008/0127897 A1	6/2008	Flannery	
			2008/0127898 A1	6/2008	Morse	
			2008/0127899 A1	6/2008	Angus	

(56)

References Cited

U.S. PATENT DOCUMENTS

2008/0155755	A1	7/2008	Crousore	2014/0283308	A1	9/2014	Chen
2008/0173627	A1	7/2008	Martin	2015/0000042	A1	1/2015	Randall
2008/0201856	A1	8/2008	Howard	2015/0007393	A1	1/2015	Palashewski
2008/0313815	A1	12/2008	Guesquiere	2015/0026896	A1	1/2015	Fleury
2009/0000031	A1	1/2009	Fehér	2015/0067967	A1	3/2015	Tyree
2009/0089933	A1	4/2009	Letton	2015/0074911	A1	3/2015	Dungan
2009/0106894	A1	4/2009	Yeo	2015/0082545	A1	3/2015	Holbrook
2009/0127912	A1	5/2009	Galbreath	2015/0135435	A1	5/2015	Ueda
2009/0151072	A1	6/2009	Jones, III	2015/0182032	A1	7/2015	Jensen
2009/0172881	A1	7/2009	Peterson	2015/0182397	A1	7/2015	Palashewski
2009/0217459	A1	9/2009	Rudolph	2015/0182399	A1	7/2015	Rose
2010/0038882	A1	2/2010	Chimento	2015/0208819	A1	7/2015	McKay
2010/0050341	A1	3/2010	Tepper	2015/0237824	A1	8/2015	Cantwell
2010/0058541	A1	3/2010	Kemper	2015/0290059	A1	10/2015	Brosnan
2010/0087561	A1	4/2010	Abraham	2015/0296995	A1	10/2015	Krim
2010/0160473	A1	6/2010	Neff	2015/0351556	A1	12/2015	Franceschetti
2010/0205738	A1	8/2010	Pollack	2015/0351982	A1	12/2015	Krenik
2010/0237082	A1	9/2010	Fernandez	2015/0366366	A1	12/2015	Zaiss
2010/0269262	A1	10/2010	Warren	2016/0015184	A1	1/2016	Nunn
2010/0313356	A1	12/2010	Morter	2016/0037938	A1	2/2016	Tyree
2011/0035879	A1	2/2011	Grinstead	2016/0073788	A1	3/2016	Franceschetti
2011/0061168	A1	3/2011	Farley	2016/0073950	A1	3/2016	Franceschetti
2011/0067183	A1	3/2011	Hawkins	2016/0081487	A1	3/2016	Corodemus
2011/0099722	A1	5/2011	Moret	2016/0100696	A1	4/2016	Palashewski
2011/0107514	A1	5/2011	Brykalski	2016/0106061	A1	4/2016	Nelson
2011/0115635	A1	5/2011	Petrovski	2016/0128487	A1	5/2016	Eskridge, III
2011/0154576	A1	6/2011	Warren	2016/0128488	A1	5/2016	Franceschetti
2011/0173757	A1	7/2011	Rensink	2016/0135623	A1	5/2016	Montzka
2011/0252572	A1	10/2011	Morrison	2016/0157625	A1	6/2016	Schneider
2011/0290834	A1	12/2011	Pelz	2016/0169490	A1	6/2016	Kijima
2011/0314605	A1	12/2011	Deguchi	2016/0183691	A1	6/2016	Mason
2012/0001548	A1	1/2012	Recker	2016/0192617	A1	7/2016	Murphy
2012/0053423	A1	3/2012	Kenalty	2016/0192786	A1	7/2016	Holbrook
2012/0060284	A1	3/2012	Caines	2016/0224750	A1	8/2016	Kethman
2012/0110734	A1	5/2012	An	2016/0242562	A1	8/2016	Karschnik
2012/0159715	A1	6/2012	Jung	2016/0262557	A1	9/2016	Williams
2012/0180225	A1	7/2012	Gladney	2016/0296031	A1	10/2016	Sramek
2012/0324646	A1	12/2012	Briganti	2016/0309678	A1	10/2016	Garnet
2013/0025050	A1	1/2013	Syrowitz	2016/0338871	A1	11/2016	Nunn
2013/0025070	A1	1/2013	Ruehlmann	2016/0360905	A1	12/2016	Feldman
2013/0042411	A1	2/2013	Vitale	2017/0003666	A1	1/2017	Nunn
2013/0146211	A1	6/2013	Mason	2017/0028165	A1	2/2017	Franceschetti
2013/0152305	A1	6/2013	Lall	2017/0035212	A1	2/2017	Erko
2013/0174344	A1	7/2013	Klancnik	2017/0112292	A1	4/2017	Sopher
2013/0175057	A1	7/2013	Klancnik	2017/0135632	A1	5/2017	Franceschetti
2013/0180050	A1	7/2013	Koci	2017/0135883	A1	5/2017	Franceschetti
2013/0247828	A1	9/2013	Tedaldi	2017/0172240	A1	6/2017	Massey
2013/0263377	A1	10/2013	Wootten, Jr.	2017/0196369	A1	7/2017	Nunn
2013/0263386	A1	10/2013	Romero	2017/0208955	A1	7/2017	Lee
2013/0284099	A1	10/2013	Oakes, Jr.	2017/0231401	A1	8/2017	McGuire
2014/0013507	A1*	1/2014	Perez	2017/0238715	A1	8/2017	Choi
				2017/0251839	A1	9/2017	McLeod
				2017/0259028	A1	9/2017	Franceschetti
				2017/0273470	A1	9/2017	Brykalski
				2017/0295945	A1	10/2017	Stickler
				2017/0296412	A1	10/2017	Hung
				2017/0296773	A1	10/2017	Franceschetti
2014/0033440	A1	2/2014	Tyree	2017/0318980	A1	11/2017	Mahoney
2014/0033441	A1	2/2014	Morgan	2017/0318981	A1	11/2017	Duwell
2014/0039082	A1	2/2014	Peterson	2017/0348182	A1	12/2017	Yoo
2014/0059765	A1	3/2014	Harris	2017/0354268	A1	12/2017	Brosnan
2014/0068868	A1	3/2014	Morzano	2018/0027981	A1	2/2018	Sherman
2014/0082843	A1	3/2014	Papadakos	2018/0042393	A1	2/2018	Alletto
2014/0082846	A1	3/2014	Blazar	2018/0100254	A1	4/2018	Brunton
2014/0099468	A1	4/2014	Cai	2018/0116415	A1	5/2018	Karschnik
2014/0109314	A1	4/2014	Boersma	2018/0116417	A1*	5/2018	Alletto, Jr. A47C 31/105
2014/0109320	A1	4/2014	Chunglo	2018/0125259	A1	5/2018	Peterson
2014/0130255	A1	5/2014	Montano, Jr.	2018/0125260	A1	5/2018	Peterson
2014/0141233	A1	5/2014	Crawford	2018/0153766	A1	6/2018	Chen
2014/0182061	A1	7/2014	Zaiss	2018/0271300	A1	9/2018	Wang
2014/0189955	A1	7/2014	Alletto, Jr.	2018/0289171	A1	10/2018	Alletto, Jr.
2014/0190417	A1	7/2014	Lipscomb	2019/0021513	A1	1/2019	Nunn
2014/0201925	A1	7/2014	Tursi, Jr.	2019/0029597	A1	1/2019	Nunn
2014/0208517	A1	7/2014	Gross	2019/0082855	A1	3/2019	Brosnan
2014/0227552	A1	8/2014	Lau	2019/0090653	A1*	3/2019	Moore, III D04H 1/492
2014/0230735	A1	8/2014	Coulter	2019/0099017	A1	4/2019	Goldberg
2014/0250596	A1	9/2014	De La Place	2019/0104858	A1	4/2019	Erko
2014/0259433	A1	9/2014	Nunn	2019/0125097	A1	5/2019	Nunn
2014/0277822	A1	9/2014	Nunn	2019/0133332	A1	5/2019	Zaiss
2014/0283303	A1	9/2014	Rochlin				

(56)

References Cited

U.S. PATENT DOCUMENTS

2019/0174930	A1	6/2019	Defranks
2019/0186704	A1	6/2019	Qiu
2019/0223630	A1	7/2019	Phan
2019/0230434	A1	7/2019	Stanley
2019/0231084	A1	8/2019	Nunn
2019/0254438	A1	8/2019	Rose
2019/0254593	A1	8/2019	Franceschetti
2019/0269878	A1	9/2019	Franceschetti
2019/0320809	A1	10/2019	Ishibashi
2019/0321581	A1	10/2019	Franceschetti
2019/0328147	A1	10/2019	Palashewski
2019/0328150	A1*	10/2019	Nolte A47C 27/15
2019/0343306	A1	11/2019	Muthanandam
2019/0357696	A1	11/2019	Palashewski
2019/0376945	A1	12/2019	Yao
2020/0029704	A1	1/2020	Karschnik
2020/0113343	A1	4/2020	Staels

FOREIGN PATENT DOCUMENTS

CA	2112895	C	8/1998
CA	2305522	A1	4/1999
CA	2416861	A1	8/2003
CA	2502697	A1	4/2004
CA	2525570	C	11/2006
CA	2650218	A1	11/2007
CA	2922187	A1	11/2007
CA	2989606	A1	3/2010
CA	2754914	A1	9/2010
CA	2618630	C	10/2011
CA	2799927	A1	12/2011
CA	2801789	A1	12/2011
CA	2823387	A1	7/2012
CA	2783753	A1	1/2013
CA	2783982	A1	1/2013
CA	2843370	A1	1/2013
CA	2848770	A1	3/2013
CA	2855227	A1	4/2013
CA	2651960	C	7/2013
CA	2800552	A1	7/2013
CA	2878994	A1	3/2014
CA	2888119	A1	5/2014
CA	2894194	A1	6/2014
CA	2839603	A1	7/2014
CA	2648272	C	1/2015
CA	2863889	A1	3/2015
CA	2922738	A1	3/2015
CA	2937238	A1	7/2015
CA	2963626	A1	4/2016
CA	2744772	C	5/2016
CA	2876788	A1	7/2016
CA	2978341	A1	10/2016
CA	2956830	A1	8/2017
CA	2958348	A1	8/2017
CA	2940763	C	10/2017
CA	2740802	C	1/2018
CA	2770105	C	1/2018
CA	2737749	C	2/2018
CN	2071915	U	2/1991
CN	2633118	Y	8/2004
CN	2636734	Y	9/2004
CN	2840811	Y	11/2006
CN	101138457	A	3/2008
CN	201341650	Y	11/2009
CN	201379320		1/2010
CN	201452382	U	5/2010
CN	201727183	U	2/2011
CN	201996026	U	10/2011
CN	202014890	U	10/2011
CN	202136017	U	2/2012
CN	102822224		12/2012
CN	202604242	U	12/2012
CN	203016383	U	6/2013
CN	203328338		12/2013
CN	105640152		6/2016

CN	205548120	U	9/2016
CN	106617913	A	5/2017
CN	107307672	A	11/2017
CN	107432611	A	12/2017
CN	107455989	A	12/2017
DE	7037476	U	5/1971
DE	2708068	A1	9/1978
DE	10238457	A1	3/2004
DE	10300169	A1	7/2004
DE	10311434		9/2004
DE	202005016938	U1	3/2007
DE	102007021312	A1	11/2008
DE	102009044308	A1	4/2011
DE	202010017223	U1	8/2011
DE	102008055549	B4	7/2014
DE	102010048357	B4	2/2017
DE	112015005896	T5	9/2017
EP	1011391	B1	10/2002
EP	1457139	A1	9/2004
EP	1670338	A1	6/2006
EP	1951089	A2	8/2008
EP	1793707	B1	10/2008
EP	1339369	B1	1/2010
EP	2140847	A2	1/2010
EP	1648269	B1	11/2010
EP	2263498	A2	12/2010
EP	2280627	B1	10/2011
EP	2341800	B1	11/2012
EP	2532278	A1	12/2012
EP	2532281	A1	12/2012
EP	2393399	B1	3/2013
EP	2764799	A2	8/2014
EP	1261265	B1	7/2015
EP	2957191	A1	12/2015
EP	2369959	B1	8/2016
ES	2201183	T3	3/2004
ES	2534286	T3	4/2015
ES	2535762	R1	6/2015
ES	2535762	B1	4/2016
FR	2473291		7/1981
FR	2622683	A1	5/1989
FR	2641455	A1	7/1990
FR	2715550	A1	8/1995
FR	2759304	A1	8/1998
FR	2835164	A3	8/2003
GB	1572763		8/1980
GB	2369569		6/2002
GB	2458892	B	11/2012
JP	H05123231	A	5/1993
JP	H05146345	A	6/1993
JP	2002253388	A	9/2002
JP	2004329706		11/2004
JP	2005000192		1/2005
JP	2005160794	A	6/2005
JP	2014023967	A	2/2014
JP	6383771		8/2018
KR	20110132025	A	12/2011
KR	101465852	B1	11/2014
KR	101581722	B1	1/2016
KR	20180031449	A	3/2018
RU	2607426	C1	1/2017
WO	2000002516	A1	1/2000
WO	2005032310		4/2005
WO	2007060371	A2	5/2007
WO	2013157534		10/2013
WO	2014105687		7/2014
WO	2016182795	A1	11/2016
WO	2016182858	A1	11/2016
WO	2017213732	A1	12/2017
WO	2018089464	A1	5/2018
WO	2019089830	A1	5/2019

OTHER PUBLICATIONS

CN303638342, Application date: Oct. 16, 2015, China National Intellectual Property Administration, Publication Date: Apr. 13, 2016, Owner: Casper Sleep Inc, Creators: Ling muyuan, Geoffrey chabin, Neil palike. (Year: 2016).*

(56)

References Cited

OTHER PUBLICATIONS

CN307031576, Application date: Sep. 6, 2021, China National Intellectual Property Administration, Publication Date: Dec. 28, 2021, Owner: Yiyang Technology (Shanghai) Co Ltd. (Year: 2021).*

CN307356351, Application date: Jan. 24, 2022, China National Intellectual Property Administration, Publication Date: May 24, 2022, Owner: Zhejiang Yuanyi Household Products Group Co Ltd, Creator: Wu Jian. (Year: 2022).*

CN307263010, Application date: Jan. 14, 2022, China National Intellectual Property Administration, Publication date: Apr. 15, 2022, Owner: Chengdu Iaimiao Network Technology Co Ltd, Creator: Zhang Liangke. (Year: 2022).*

Casper Mattress (2017 version) Review by GoodBed.com, posted Apr. 26, 2017 [online], [retrieved Mar. 29, 2023]. Retrieved from internet, <https://www.youtube.com/watch?v=qiv7K2EosCw> (Year: 2017).*

Casper Original Hybrid (2023), posted Mar. 28, 2023 [online], [retrieved Mar. 28, 2023]. Retrieved from internet, <https://casper.com/mattresses/original-hybrid-v1.html> (Year: 2023).*

International Search Report, Written Opinion of ISA and Search History, PCT/US2015/026564, dated Aug. 31, 2015. (19 pages). Communication from Thomas Petr received in PCT/US2015/026564, dated Feb. 27, 2016. (1 page). Supplementary Partial European Search Report for EP 15 78 3835 (Nov. 14, 2017) (14 pages). Dormia Website Existing at Least as Early as Jun. 14, 2008. (2 pages). Specification and Build Sheet for Dormia Radiance Mattress dated Jun. 14, 2007. (2 pages). Correspondence Regarding Distribution of Dormia Radiance Mattress, Authored by Classic Brands, LLC, dated Nov. 1, 2007. (1 pg). Casper Pillow review. Sleepopolis. Published on Jan. 22, 2016. Website found at: <https://www.youtube.com/watch?v=h4AhiXBEO3U>. (15 pages). Canadian Patent Application No. 2,909,804, Office Action dated Oct. 18, 2019, 4 pages. Third-Party Submission Under 37 CFR 1.290 dated Jun. 14, 2016 in U.S. Appl. No. 14/689,945. (15 pages). Third-Party Submission Under 37 CFR 1.290 dated Jun. 27, 2016 in U.S. Appl. No. 14/689,945. (11 pages). Third-Party Submission under 37 CFR 1.290 mailed on Jun. 10, 2016 in U.S. Appl. No. 14/689,945. (9 pages). Chewy Casper Memory Foam Dog Bed Aug. 28, 2017 [site visited Jan. 23, 2018] Available from Internet URL: <<https://www.chewy.com/casper-memory-foam-dog-bed-medium/dp/155149>>—(7 pages). Groupon Water-Resistant Orthopedic Foam Pet Crate Mats, announced 2018 [online], [site visited Jan. 22, 2018] Available from Internet URL: <<https://www.groupon.com/latest-deals/gg-waterresistant-orthopedic-foam-pet-crate-mats>>. (2 pages). Unboxing and Setting Up a Casper Dog Bed, announced Sep. 14, 2016 [online], [site visited Jan. 23, 2018] Available from Internet URL: <<https://www.youtube.com/watch?v=fAEKTatZCTA>> at approximately 0:48. (1 page). The Casper Dog Mattress In-depth Review Demo, announced Feb. 15, 2017 [online], [site visited Jan. 23, 2018] Available from Internet URL: <https://www.youtube.com/watch?v=jRqVxs_M35g> at approximately 2:39. (1 page). EZ Wash Fleece Lounger Poly-Filled Dog Bed, [site visited Jan. 23, 2018] Available from Internet URL: <<https://www.wayfair.com/pet/pdp/3-dog-pet-supply-ez-wash-fleece-lounger-poly-filled-dog-bed-dpsp1004.html?piid=18825537>>. (3 pages). Luca Crate Cuddler, announced Jul. 15, 2016 [online], [site visited Jan. 23, 2018] Available from Internet URL: <<https://www.youtube.com/watch?v=4HeVQP2Z86E>> at approximately 0:05. (1 page). AmazonBasics Padded Pet Bolster Bed, accessed Sep. 16, 2016. (https://www.amazon.com/AmazonBasics-Padded-Pet-Bolster-Bed/dp/B00QHC06UO-?ie=UTF8&keywords=dog%20bed&qid=1459134598&ref=sr_1_11&refinements=p_n_feature_keywords_two_browse-bin%3A8002501011%7C8002502011%7C8002503011&s=pets-supplies&sr=1-11) (6 pages).

PetCo Sweet Dreams Rectangular Bolster Dog Bed , accessed Sep. 16, 2016 (<http://www.petco.com/shop/en/petcostore/dog/dog-beds-and-bedding/dog-bed- s/sweet-dreams-rectangular-bolster-dog-bed>) (2 pages). Round Orvis Dog's Nest, accessed Sep. 16, 2016, (<http://www.orvis.com/p/round-orvis-dogs-nest/1h0l>) (2 pages). Frontgate Huggy Nest Pet Bed, accessed Sep. 16, 2016 (<http://www.frontgate.com/huggy-nest-pet-bed/pet-products/pet-bedsblankets-throws/bolster-pet-beds/802099>), (2 pages). Petsmart K&H Classy Lounger Pet Bed , accessed Sep. 16, 2016. (http://www.petsmart.com/dog/beds/k-h-classy-lounger-petbed-zid36-26968/-cat-36-catid-100063?var_id=36-26968), (1 page). Bowsers Super Loft Rectangle Avalon, accessed Sep. 16, 2016 (<http://www.bowsers.com/pet-beds/super-loft-rectangle/superloft-rectangle-avalon.html>) (1 page). Petco K&H Deluxe Ortho Bolster Sleeper Dog Bed , accessed Sep. 16, 2016 (<http://www.petco.com/shop/en/petcostore/dog/dog-beds-and-bedding/dog-bed- s/kandh-deluxe-ortho-bolster-sleeper-dog-bed-in-eggplant-withpaw-prints#>) (2 pages). L.L.Bean Premium Denim Dog Bed Set, Rectangular, accessed Sep. 16, 2016 (<http://www.llbean.com/llb/shop/44560?feat=507408-GN2&page=premium-denim-dog-bed-set-rectangular>) (3 pages). Amazon Stainmaster Comfy Couch Pet Bed, accessed Sep. 16, 2016 (https://www.amazon.com/STAINMASTER-Comfy-Couch-Large-Olive/dp/B00LQZ18XQ?ie=UTF8&keywords=dog%20bed&qid=1459135646&ref=sr_1_426&refinements=p_n_feature_keywords_two_browse-bin%3A8002501011%7C8002502011%7C8002503011&s=pets-supplies&sr=1A26) (8 pages). Jax & Bones Donut Bed, accessed Sep. 16, 2016 (<https://www.jaxandbones.com/products/bedding/donut/licorice-donut-bed>) (3 pages). Petsmart Carolina Pet Orthopedic Comfort Couch, accessed Sep. 16, 2016. http://www.petsmart.com/dog/beds/carolina-petorthopedic-comfort-couch-personalized-pet-bed-zid36-5591/cat-36-catid-100063?var_id=36-5591) (2 pages). Lux Premium Dog Bed, accessed Sep. 16, 2016 (<http://godogbeds.com/product/sample-product-2/>) (1 Page). Frontgate Urban Denim Lounger Pet Bed , accessed Sep. 16, 2016 ([http://www.frontgate\(X\)m/urban-denim-lounger-pet-bed/pet-products/pet-beds-blankets-throws/bolster-beds/451775](http://www.frontgate(X)m/urban-denim-lounger-pet-bed/pet-products/pet-beds-blankets-throws/bolster-beds/451775)) (3 pages). Bowsers Donut Bed, accessed Sep. 16, 2016 (<http://www.bowsers.com/pet-beds/donut-beds/donut-bed-nickel-weave.html>) (1 page). L.L.Bean Premium Dog Couch, accessed Sep. 16, 2016 (<http://www.llbean.com/llb/shop/66388?feat=507408-GN2&page=premium-dog-couch>) (3 pages). Jax & Bones Sleeper Bed, accessed Sep. 16, 2016 (<https://www.jaxandbones.com/products/bedding/sleeper/tweed-cremesleeper-bed>), (2 pages). Orvis ToughChew Dog Bed with Polyester Fill, accessed Sep. 16, 2016 (<http://www.orvis.com/p/toughchew-rectangle-dogbed/0h4c>) (2 pages). Orvis Wraparound Fleece Dog Bed with Memory Foam, accessed Sep. 16, 2016 (<http://www.orvis.com/p/wraparound-fleecedog-bed/2es4>) (2 pages). Orvis Deep Dish Dog Bed with Memory Foam, accessed Sep. 16, 2016 (<http://www.orvis.com/p/deep-dish-dog-bed/2c9b>) (2 pages). Bowsers Urban Lounger, accessed Sep. 16, 2016 (<http://www.bowsers.com/pet-beds/urban-lounger/urban-loungereverest.html-1>) (1 page). Doca pet Zz Bed, accessed Sep. 16, 2016 (<https://www.docapet.com/product/zz-bed/>) (2 pages). Jax & Bones Memory Foam Bed, accessed Sep. 16, 2016 (<https://www.jaxandbones.com/products/bedding/memory-foam/juniper-memory-foam-pillow>) (2 pages). Orvis Tempur-Pedic.RTM. Deep Dish Dog Bed, accessed Sep. 16, 2016. (<http://www.orvis.com/p/orvis-tempur-pedic-deepdish-dog-bed/2gr6>) (2 pages). World of Angus Dog Bed, accessed Sep. 16, 2016, (<http://worldofangus.com/collections/the-dog-bed-collection/products/thedog-bed>) (4 pages). Howlspot My Territory, accessed Sep. 16, 2016. (http://www.howlspot.com/product/detail.html?product_no=30&cate_no=1&displ-ay_group=2) (9 pages).

(56)

References Cited

OTHER PUBLICATIONS

Love Thy Beast Flip Stitch Bed, accessed Sep. 16, 2016 (<http://www.lovethebeast.com/collections/sleep/products/flip-stitchbed-grey-blacblack>) (7 pages).

Shinola Dolostone Dog Bed, accessed Sep. 16, 2016 (<http://www.shinola.com/shop/pet-accessories/dolostone-dogbed.html#color=Ashen%220Gray>) (2 pages).

Ruffler Urban Sprawl, accessed Sep. 16, 2016 (<http://www.ruffwear.com/Urban-Sprawl-Plush-Dog-Bed?sc=2&category=17>) (2 pages).

Marlon Pilvi Cushion http://en.marlonshop.com/product/Pilvi-Cushion/50/?cate_no=1&display_group=2, accessed Sep. 16, 2016 (13 pages).

Japanese Office Action (with English language translation) for Application No. 2017-507687, dated Apr. 2, 2019, 9 pages.

Downlite Downlite Dream Naturally 300 Thread Count Wool Down Comforter, accessed Jul. 13, 2017 (www.sears.com/downlite-dream-naturally-300-thread-countwool/)-0000000000000020571000000000000362141P?plpSellerId=Overstock.com&prdNo=12&blockNo=12&blockType=G 12) (4 pages).

Organic Wool Toddler Pillow, All Natural & 100% GOTS Certified Pure Organic, Wool 'Pearls' accessed Jul. 13, 2017 (<https://www.amazon.com/Organic-Certified-Antibacterial-Hypoallergenic-Toddlers/dp/B00P6SKT7K>) (2 pages).

700 Fill Power Temperature Regulating Down Comforter accessed Jul. 13, 2017 (<https://www.cuddledown.com/itemdy00.aspx?ID=70,3276&T1=Z1087+100+10+01>) (12 pages).

Hobbs WL90 Count Batting Heirloom Wool, 90"x108" accessed Jul. 13, 2017 (https://www.amazon.com/Hobbs-WL90-Count-Batting-Heirloom/dp/B0063G013G/ref=sr_1_9?e=UTF8&qid=1497374885&sr=8-9&keywords=wool+batting) (1 page).

10" Sewn-Thru Boxstitch PrimaSera Down Alternative Duvet Insert, Tc 230 accessed Jul. 13, 2017 (<http://hotelsuppliesdepot.com/10-Sewn-Thm-Boxstitch-PrimaSera-Down-Alternative-DUVET-INSERTTc-230-j 409. html>) (1 page).

Badenia 3649730149 Bettcomfort Steppbett, 4-Jahreszeiten, Micro Thermo, 155x220 cm, weiB accessed Jul. 13, 2017 (https://www.amazon.de/Badenia-Bettcomfort-03649730149A-Jahreszeiten-Steppbett-Thermo/dp/B0026IBFN0/?ef=sr_1_5?ie=UTF8&qid=1460493398&sr=1-5) (1 Page).

Ruffler Urban Sprawl <http://www.ruffwear.com/Urban-Sprawl-Plush-Dog-Bed?sc=2&category=17>, accessed Sep. 16, 2016 (2 pages).

Office Action and Search Report for China Patent Application No. 201580019495.5 (dated May 3, 2018) (12 pages).

Design Within Reach, Min Bed, http://www.dwr.com/bedroom-beds/min-bed/6348.html?lang=en_US (accessed May 23, 2018) (19 pages).

Extended European Search Report issued in EP18192998.5, dated Nov. 20, 2018, 8 pages.

How to set up your dog mattress, no date available (1 page).

Amazon Basics Padded Pet Bolster Bed (https://www.amazon.com/AmazonBasicsA20bed&qid=1459134598&ref=sr_1_11&refinements=p n feature keywords two browse-bin%3A8002501011%7C8002502011%7C8002503011 &s=pets-supplies&sr=1 -11), accessed Sep. 16, 2016 (6 pages).

PetCo Sweet Dreams Rectangular Bolster Dog Bed [http://www.petco.com/shop/en/pet\(X\)store/dog/dog-beds-anA log-bed](http://www.petco.com/shop/en/pet(X)store/dog/dog-beds-anA log-bed), accessed Sep. 16, 2016 (2 pages).

Bowsers Urban Lounger (<http://www.bowsers.com/pet-beds/urban-lounger/urban-lounger-everest.html>), accessed Sep. 16, 2016 (1 page).

Howlspot My Territory (http://www.howlspot.com/product/detail.html?product_no=30&cate_no=1&display_group=2), accessed Sep. 16, 2016 (9 pages).

Office Action dated Mar. 20, 2019 for U.S. Appl. No. 15/611,902 (pp. 1-16).

International Search Report and Written Opinion for PCT/US18/46573 dated Oct. 22, 2018, 23 pages.

The Casper Mattress, casper.com/mattresses/casper/, retrieved Aug. 27, 2019, 29 pages.

International Search Report and Written Opinion for Application No. PCT/US19/28543, datd Aug. 22, 2019, 16 pages.

Notice of Allowance dated Jul. 12, 2019 for U.S. Appl. No. 29/641,393 (pp. 1-10).

The Essential Mattress, casper.com/mattresses/casper-essential/, retrieved Aug. 27, 2019, 15 pages.

The Wave Mattress, casper.com/mattresses/casper-wave/, retrieved Aug. 27, 2019, 30 pages.

Office Action dated Nov. 15, 2019 for U.S. Appl. No. 29/610,695 (pp. 1-7).

Office Action dated Nov. 15, 2019 for U.S. Appl. No. 29/610,820 (pp. 1-6).

Office Action dated Nov. 18, 2019 for U.S. Appl. No. 29/610,826 (pp. 1-7).

Office Action dated Dec. 2, 2019 for U.S. Appl. No. 29/610,852 (pp. 1-7).

Office Action dated Mar. 16, 2020, for U.S. Appl. No. 15/677,387 (pp. 1-20).

Office Action dated Apr. 9, 2020, for U.S. Appl. No. 29/610,852 (pp. 1-6).

Office Action dated May 6, 2020 for U.S. Appl. No. 15/872,737 (pp. 1-10).

Notice of Allowance dated Jul. 2, 2020 for U.S. Appl. No. 15/677,387 (pp. 1-9).

Twist Product Guide purchased 2017 (2 pages).

Office Action dated Nov. 29, 2019 for U.S. Appl. No. 29/667,664 (pp. 1-7).

General Electric Company Product Guide for GE Sol Lamp purchased 2018 (9 pages).

International Search Report, Written Opinion of ISA, PCT/US2019/12582 (Apr. 25, 2019) (14 pages).

Philips Lighting Holding B.V. "User manual" Jan. 30, 2017 (2 pages).

Fivefive S.A.S. "Manual Multilanguage v2.1" Copyright 2013 (7 pages).

Lighting Science "Awake & Alert Biological lights" LED-product packaging Purchase date unknown (3 pages).

NOX "User Manual for Smart Sleep Light Sleepace" (12 pages).

Fivefive S.A.S. "Holi The Little Book To Sleep And Wake Up Bright" purchased in 2018 (6 pages).

Dodow "Product Guide" purchased 2018 (13 pages).

Philips "Hue Personal Wireless Lighting Get started with Philips Hue" brochure purchased 2017 (6 pages).

General Electric Company "C-Sleep" product packaging Purchase date unknown (2 pages).

Philips "Hue Personal Wireless Lighting" pamphlet Purchased 2017 (2 pages).

Pablo Design "UMA Setup Guide & Owners Manual" purchased 2017 (8 pages).

Philips "Wake-up Light" product packaging Purchase date unknown (1 page).

Up Light Corp. "Smart Wake Up Light" product packaging Purchase date unknown (2 pages).

Koninklijke Philips N.V. "Philips Lighting University—Connecting LEDs A Quick Reference Guide" 2014 (77 pages).

Wout van Bommel, at al., Koninklijke Philips Electronics N.V. "Lighting Hardware" Copyright 2011 (107 pages).

Koninklijke Philips N.V. "Philips HealWell White paper" 2014 (12 pages).

Philips Lighting Holding B.V. "Hue Personal Wireless Lighting" product packaging 2016 (2 pages).

Office Action dated Feb. 10, 2020, for U.S. Appl. No. 16/241,665 (pp. 1-10).

Notice of Allowance dated Apr. 2, 2020, for U.S. Appl. No. 29/667,664 (pp. 1-5).

Notice of Allowance dated Apr. 30, 2020 for U.S. Appl. No. 29/667,664 (pp. 1-4).

Notice of Allowance dated Jul. 29, 2020 for U.S. Appl. No. 29/610,852 (pp. 1-7).

Corrected Notice of Allowability dated Aug. 26, 2020 for U.S. Appl. No. 29/610,852 (pp. 1-4).

Office Action dated Oct. 5, 2020 for U.S. Appl. No. 16/241,665 (pp. 1-13).

(56)

References Cited

OTHER PUBLICATIONS

Office Action dated Oct. 15, 2020 for U.S. Appl. No. 16/390,194 (pp. 1-24).

International Search Report and Written Opinion for App. No. PCT/US2020/043712, dated Oct. 14, 2020, 17 pages.

Notice of Allowability dated Dec. 9, 2020 for U.S. Appl. No. 29/703,367 (pp. 1-3).

Office Action dated Dec. 15, 2020 for U.S. Appl. No. 16/102,649 (pp. 1-17).

* cited by examiner

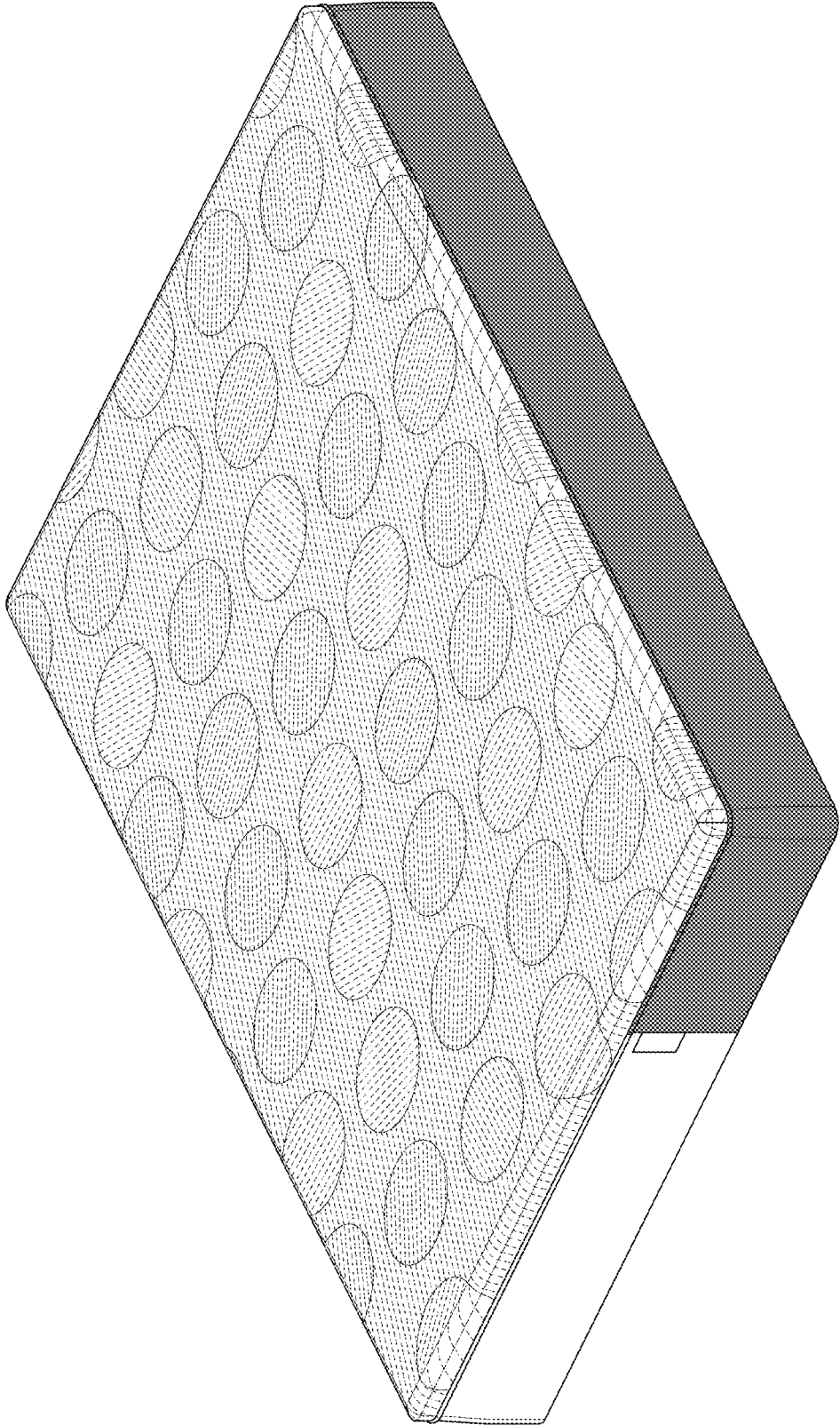


FIG. 1

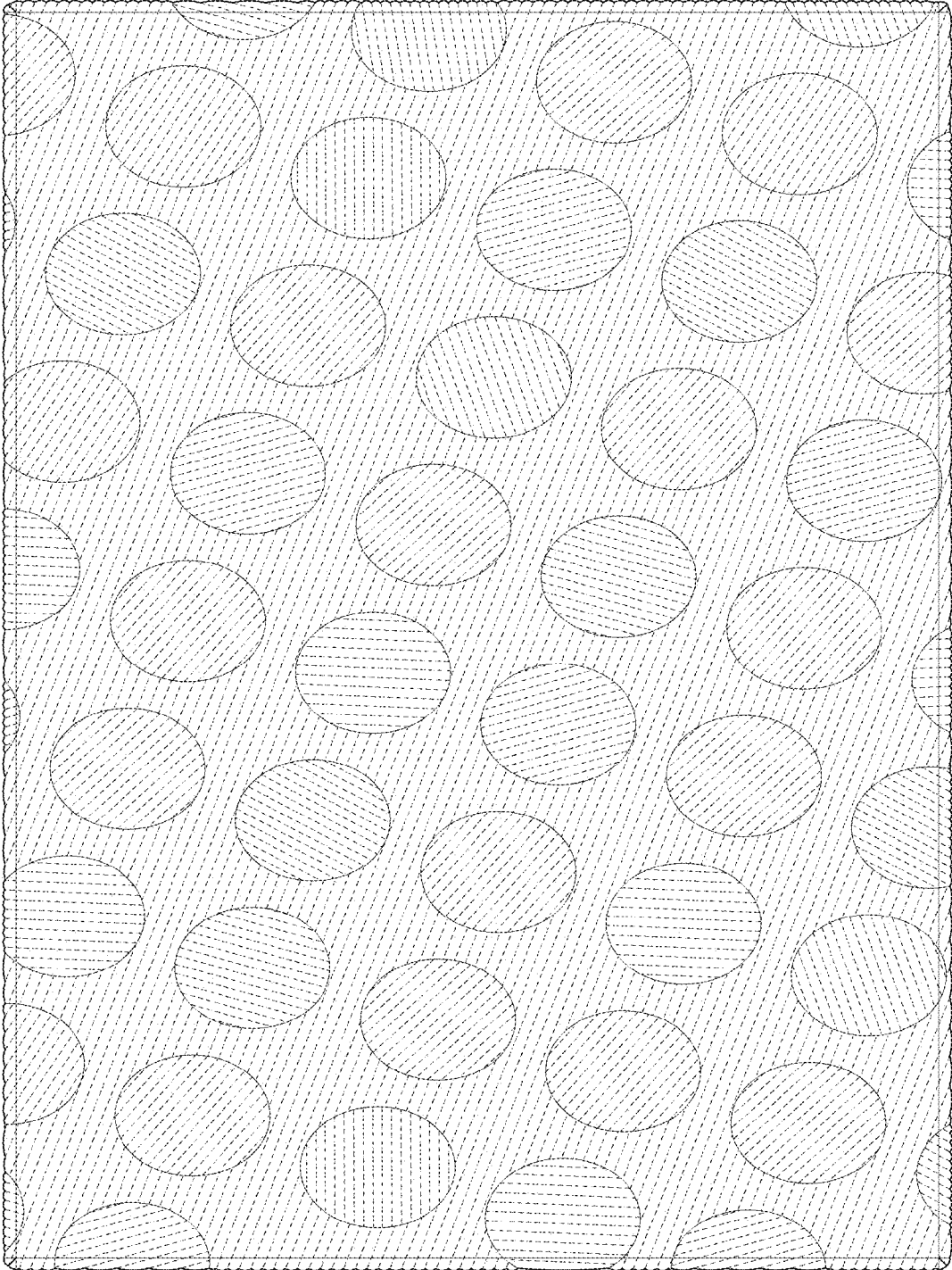


FIG. 2

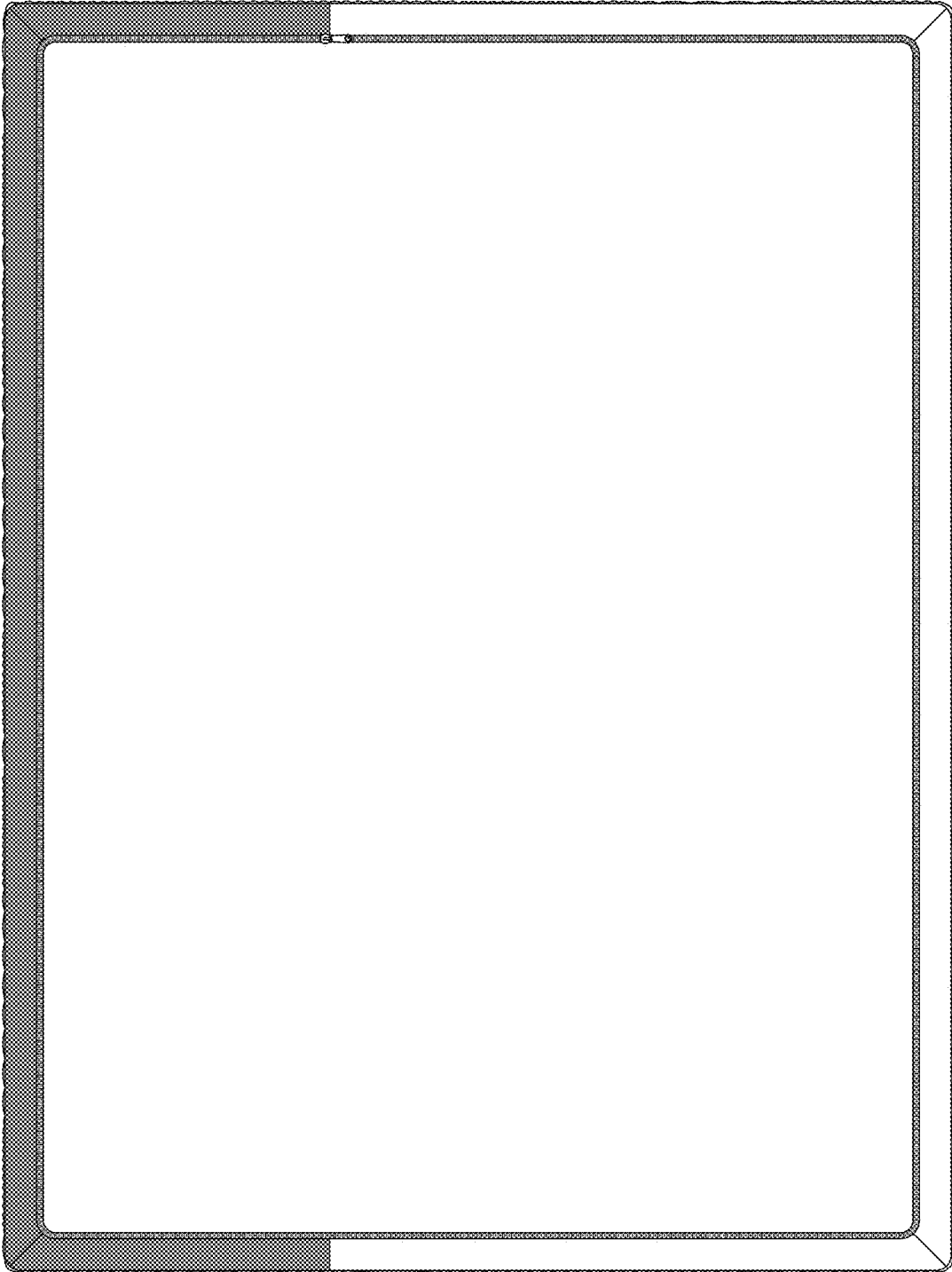


FIG. 3

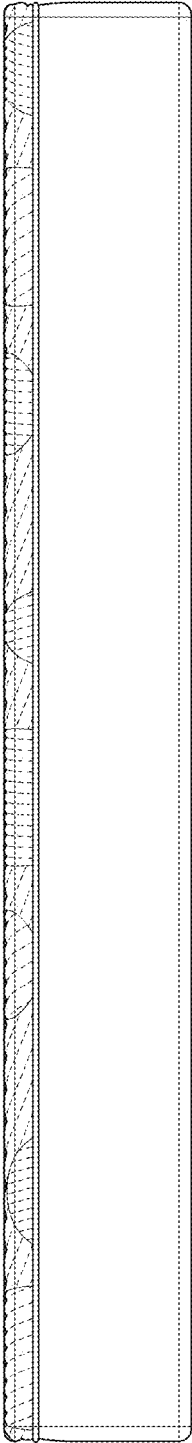


FIG. 4

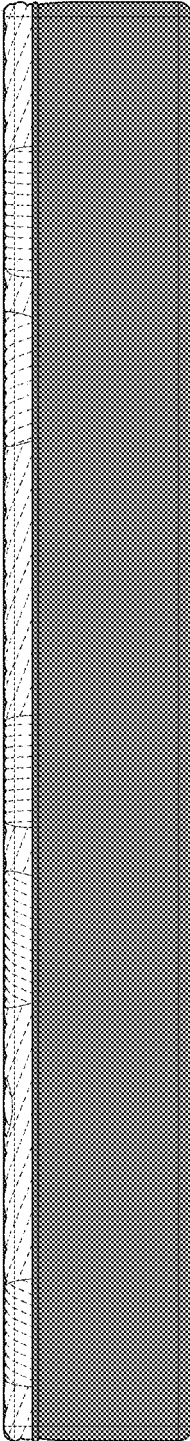


FIG. 5

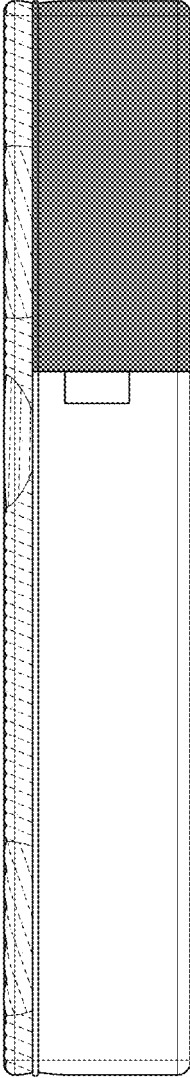


FIG. 6

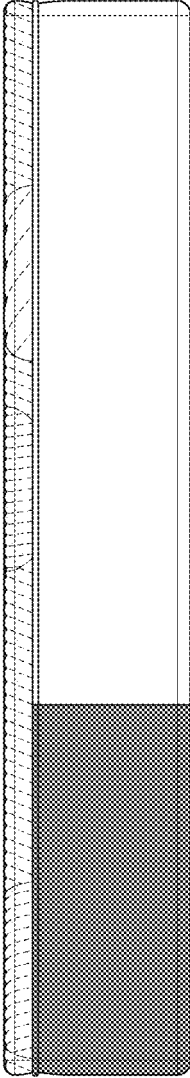


FIG. 7