(56) **References Cited**

U.S. PATENT DOCUMENTS

6,307,742 B1 * 10/2001 Diaz G06F 1/181 292/148
6,711,002 B1 * 3/2004 Fan G06F 1/181 312/223.3
6,954,353 B2 * 10/2005 Olson G06F 1/1601 312/223.1
7,578,733 B2 * 8/2009 Belady H05K 5/0208 361/695
7,697,284 B2 * 4/2010 Lin G06F 1/181 361/679.6
7,782,597 B2 * 8/2010 Chiu H05K 7/18 361/679.01
7,853,034 B1 * 12/2010 Gresko H04R 5/033 381/372
8,027,155 B2 * 9/2011 Bae A47B 88/483 361/679.02
8,315,052 B2 * 11/2012 Chan H05K 7/20736 361/695
8,405,969 B2 * 3/2013 Sullivan G06F 1/20 361/679.33
8,564,961 B2 * 10/2013 Weber F21V 15/01 361/728
8,564,964 B2 10/2013 Nakashima et al.
8,934,254 B2 * 1/2015 Petrick G06F 1/1628 361/727
9,023,691 B2 * 5/2015 Mohammed H01L 21/56 438/126
9,283,642 B2 * 3/2016 Andre B23K 26/382
10,117,343 B2 * 10/2018 Andre B23P 13/00
10,299,393 B2 * 5/2019 Andre B23K 26/361
10,492,313 B2 * 11/2019 Andre B23K 26/362
2005/0265003 A1 * 12/2005 Coglitore H05K 9/0018 361/724
2007/0047212 A1 * 3/2007 Fendley H05K 7/20218 361/724
2007/0211439 A1 * 9/2007 Shimizu H05K 7/20736 361/724
2009/0040703 A1 * 2/2009 Gotham H05K 5/02 361/679.02
2009/0091879 A1 * 4/2009 Lim B23K 26/389 361/679.01
2009/0274549 A1 11/2009 Mitchell et al.
2011/0069436 A1 * 3/2011 Jian G06F 1/189 361/679.02
2011/0267782 A1 * 11/2011 Petrick G06F 1/26 361/724
2012/0039035 A1 * 2/2012 Wei G06F 1/206 361/679.47
2013/0189458 A1 * 7/2013 Andre B05D 3/12 428/34.1
2013/0280550 A1 10/2013 Huang et al.
2014/0093095 A1 4/2014 Slotte et al.
2014/0307373 A1 * 10/2014 Sullivan G06F 1/16 361/679.02
2014/0307377 A1 * 10/2014 Gotham G06F 1/181 361/679.4
2016/0157367 A1 * 6/2016 Andre B23K 26/382 428/137
2019/0040703 A1 2/2019 Costa De Oliveira et al.
2019/0053389 A1 * 2/2019 Andre H05K 5/02
2019/0274226 A1 * 9/2019 Andre B29C 67/00
2020/0060029 A1 * 2/2020 Andre H05K 5/03
2020/0100387 A1 3/2020 Howarth et al.

FOREIGN PATENT DOCUMENTS

CN 206371044 U 8/2017
CN 207733106 U 8/2018
WO 2017117088 A1 7/2017

* cited by examiner