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(12) **United States Design Patent** (10) **Patent No.:** **US D805,078 S**
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(54) **BARCODE READING MODULE**

(71) Applicant: **Datalogic IP Tech S.r.l.**, Lippo di Calderara di Reno (IT)
(72) Inventors: **Davide Bottazzi**, Bologna (IT); **Federico Canini**, Zola Predosa (IT); **Anna Guagliumi**, Calderara di Reno (IT); **Kurt Vonmetz**, Bologna (IT)
(73) Assignee: **DATALOGIC IP TECH S.R.L.**, Lippo di Calderara di Reno (Bologna) (IT)

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(52) **U.S. Cl.**

USPC **D14/420**; D14/453

(58) **Field of Classification Search**

USPC D14/421-425, 420; D18/55, 49, 46, 40, D18/36-39, 41, 44, 45, 47, 48, 50-54, D18/56; 235/462, 455, 470, 462.43, 482, 235/483, 462.21, 472.01, 435, 439, 440, 235/446, 454, 461, 462.32, 462.35, 235/462.41, 462.42, 463, 462.22, 462.23, 235/462.15, 462.2, 462.25; 358/474, 486, 358/488, 496, 497, 498, 452, 449, 451, 358/453, 1.13; 318/685, 696; 355/81, 355/75; 399/405, 367, 379, 380; 382/217; 715/209, 222, 226, 274; 400/613, 613.1-613.4, 690.1-690.4, 400/691-694; 359/566, 599, 641, 811, 359/213.1, 819; 348/345, 208.7, 219.1, 348/373, 374, 375

CPC .. D07G 1/0036; D07G 1/0045; D07G 1/0063; D07G 1/0072; D07G 1/009; G08B 13/1427; G08B 13/1472; G08B 13/1481;

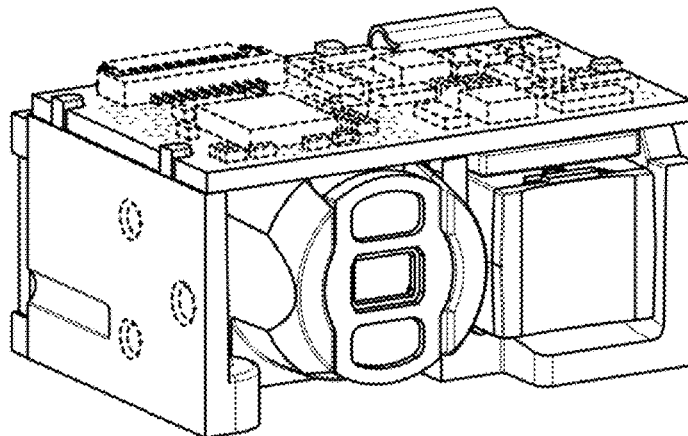
G08B 13/194; G08B 13/246; G08B 13/2462; G08B 13/2465; A47F 9/04; A47F 9/046; A47F 9/047; A47F 9/048; A47F 10/02; A47F 2010/005; A47F 2010/025; G06K 7/10693; G06K 7/10712; G06K 7/10722; G06K 7/10792; G06K 7/10801; G06K 7/10811; G06K 7/10831; G06K 7/10851; G06K 7/10861; G06K 7/1096; G06K 7/1097; G06K 7/1098; G06K 7/12; G06K 7/14; G06K 7/1408; G06K 7/1413; G06K 7/1417; G06K 7/1421; G06K 7/1426; G06K 7/143; G06K 7/1434; G06K 7/1439; G06K 7/1443; G06K 7/1447; G06K 7/1452; G06K 7/1456; G06K 7/146; G06K 7/1465; G06K 7/1469; G06K 7/1473; G06K 7/1478; G06K 7/1482; G06K 7/1486; G06K 2007/10485; G06K 7/10544-7/10762; G06K 7/10821-7/10871; G06K 7/1404-7/1495; G06K 2207/00; G06K 2207/1011-2207/1018; G06K 7/10881; G06K 7/10633; G06K 7/10702; G01G 19/4144; G01G 21/22; G01G 21/28; G01G 23/32; G01G 23/34; G01G 23/35; G01G 23/375; G01G 23/38; G01G 23/44; G07G 1/0063; G07G 1/0072; G07G 3/006; G02B 5/09; G02B 7/021; G02B 7/003; G02B 7/00; G02B 7/026; G02B 7/02; G02B 7/30; G02B 7/1821; G02B 13/005; G02B 13/006; G02B 13/0075; G02B 13/008; G02B 26/105; G02B 6/4204; G02B 6/4226; H04N 5/2251; H04N 5/2252-5/2258; H04N 2005/2255; H04N 2005/2256; G06T 2211/00; G03B 13/20

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,233,382 A * 8/1993 Taniguchi G01C 3/085 356/3.15
5,539,192 A 7/1996 Scofield et al.



5,629,510	A	5/1997	Quinn et al.	2007/0228306	A1	10/2007	Gannon et al.	
5,714,750	A	2/1998	Eastman et al.	2007/0253048	A1*	11/2007	Sakai	G02B 26/124 359/204.5
5,717,969	A *	2/1998	Miyamoto					
								G02B 7/08 396/535
6,025,963	A *	2/2000	Hippenmeyer					
								G02B 6/4204 359/811
6,123,263	A *	9/2000	Feng					
								G06K 7/10732 235/462.42
6,318,635	B1 *	11/2001	Stoner					
								G06K 7/10722 235/462.32
6,427,916	B1	8/2002	Ishii et al.					
6,498,624	B1 *	12/2002	Ogura					
								G02B 13/0055 348/220.1
6,637,657	B2	10/2003	Barkan et al.					
6,969,005	B2	11/2005	Otsubo					
6,976,629	B2 *	12/2005	Carlson					
								G06K 7/10722 235/462.11
7,131,590	B2	11/2006	Oliva et al.					
7,182,262	B2	2/2007	Wood et al.					
7,197,240	B2 *	3/2007	Uemura					
								G02B 7/102 348/374
7,273,178	B2	9/2007	Shimura					
7,296,751	B2	11/2007	Barber et al.					
7,556,203	B2	7/2009	Robinson et al.					
7,679,673	B2 *	3/2010	Takekuma					
								H04N 5/2256 348/375
7,686,216	B2	3/2010	Walczyk et al.					
7,699,227	B2	4/2010	Wang et al.					
7,845,801	B2	12/2010	Slutsky					
7,916,205	B2 *	3/2011	Takahashi					
								H04N 5/2253 348/208.7
7,934,660	B2	5/2011	Yeakley et al.					
8,038,054	B2	10/2011	Douma					
D682,226	S	5/2013	Omori et al.					
8,441,513	B2 *	5/2013	Sakai					
								G02B 27/20 347/241
D687,398	S	8/2013	Omori et al.					
8,783,573	B2 *	7/2014	Havens					
								G06K 7/10722 235/462.01
8,910,872	B2	12/2014	Barkan et al.					
D721,132	S *	1/2015	Kobayashi					
D737,822	S	9/2015	Mistkawi et al.					
9,513,458	B1 *	12/2016	Flugge					
D779,491	S *	2/2017	Mistkawi					
9,665,757	B2 *	5/2017	Feng					
9,672,398	B2 *	6/2017	Gillet					
9,697,401	B2 *	7/2017	Feng					
2002/0001118	A1 *	1/2002	Nakajima					
								B41J 2/473 359/204.1
2002/0066851	A1 *	6/2002	Hennick					
								H04N 1/03 250/216
2002/0125322	A1	9/2002	McCall et al.					
2003/0019934	A1	1/2003	Hunter et al.					
2003/0029917	A1	2/2003	Hennick et al.					
2003/0062413	A1	4/2003	Gardiner et al.					
2003/0080187	A1	5/2003	Piva et al.					
2003/0080189	A1	5/2003	Patel et al.					
2003/0089776	A1	5/2003	Hennick et al.					
2003/0107667	A1 *	6/2003	Abe					
								H04N 5/23293 348/341
2003/0151886	A1 *	8/2003	Buhl					
								G01R 22/065 361/600
2003/0222147	A1	12/2003	Havens et al.					
2004/0031851	A1 *	2/2004	Bianculli					
								G06K 7/10722 235/462.41
2004/0046030	A1	3/2004	Okada et al.					
2004/0069855	A1	4/2004	Patel et al.					
2004/0195328	A1 *	10/2004	Barber					
								G06K 7/10722 235/454
2005/0040238	A1	2/2005	Byun et al.					
2005/0185239	A1	8/2005	Orcutt					
2006/0158695	A1 *	7/2006	Lee					
								G03B 27/52 358/474
2006/0216014	A1 *	9/2006	Morinaga					
								G02B 7/026 396/144
2007/0045424	A1	3/2007	Wang					
2007/0108284	A1	5/2007	Pankow et al.					
2007/0278311	A1	12/2007	Partyka					
2008/0041954	A1	2/2008	Gannon et al.					
2008/0179552	A1	7/2008	Barkan et al.					
2009/0026267	A1	1/2009	Wang et al.					
2009/0067068	A1 *	3/2009	Yu					
								H04N 5/2257 359/823
2009/0127343	A1	5/2009	Chiang					
2009/0207300	A1 *	8/2009	Fujita					
								G02B 7/102 348/362
2009/0277963	A1	11/2009	Van Kerkhoven et al.					
2010/0065641	A1	3/2010	Liu et al.					
2010/0111361	A1	5/2010	Tan et al.					
2010/0176319	A1 *	7/2010	Nunnink					
								G02B 3/14 250/566
2010/0188565	A1 *	7/2010	Tanaami					
								H04N 5/2253 348/374
2010/0214466	A1 *	8/2010	Oliva					
								G02B 5/045 348/335
2010/0217723	A1	8/2010	Sauerwein et al.					
2011/0068174	A1	3/2011	Miyoshi et al.					
2011/0121077	A1	5/2011	Joseph et al.					
2011/0134304	A1 *	6/2011	Vigier-Blanc					
								G02B 3/0087 348/340
2011/0139876	A1 *	6/2011	Chen					
								G06K 7/10722 235/470
2012/0049049	A1	3/2012	Vinogradov et al.					
2013/0200158	A1	8/2013	Feng et al.					
2013/0271746	A1 *	10/2013	Kimura					
								G02B 7/003 356/4.01
2013/0306731	A1	11/2013	Pedrao					
2013/0327834	A1	12/2013	Hennick et al.					
2014/0110485	A1	4/2014	Toa et al.					
2015/0028105	A1 *	1/2015	Chen					
								G02B 7/021 235/462.42
2016/0253536	A1 *	9/2016	Kubo					
2016/0352945	A1 *	12/2016	Lee					
								G02B 26/105 H04N 1/00541

OTHER PUBLICATIONS

“Symbol SE4500 Integration Guide” © 2008 by Motorola, Inc. (72E-112996-01, Revision A, Dec. 2008).

* cited by examiner

Primary Examiner — Susan Moon Lee
(74) Attorney, Agent, or Firm — Duane Morris LLP

(57) CLAIM

We claim the ornamental design for a barcode reading module, as shown and described.

DESCRIPTION

FIG. 1 is a front left isometric view of a barcode reading module according to the present invention.
FIG. 2 is a front view of the barcode reading module of FIG. 1.
FIG. 3 is a rear view of the barcode reading module of FIG. 1.
FIG. 4 is a top view of the barcode reading module of FIG. 1.
FIG. 5 is a bottom view of the barcode reading module of FIG. 1.
FIG. 6 is a left side view of the barcode reading module of FIG. 1; and,
FIG. 7 is a right side view of the barcode reading module of FIG. 1.

Broken lines and unshaded portions contained within broken lines depict portions of the barcode reading module that form no part of the claimed design but are shown for purposes of illustration.

1 Claim, 7 Drawing Sheets

FIG. 1

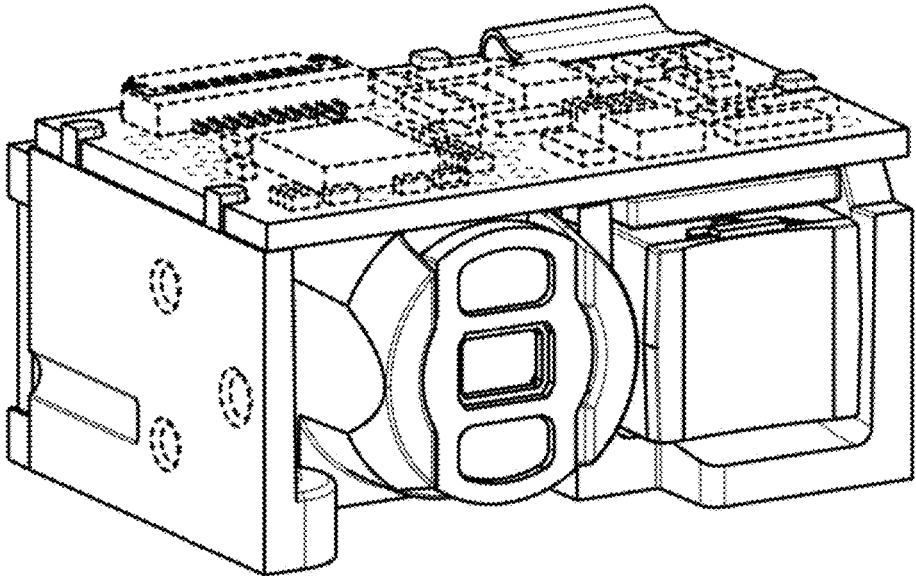


FIG. 2

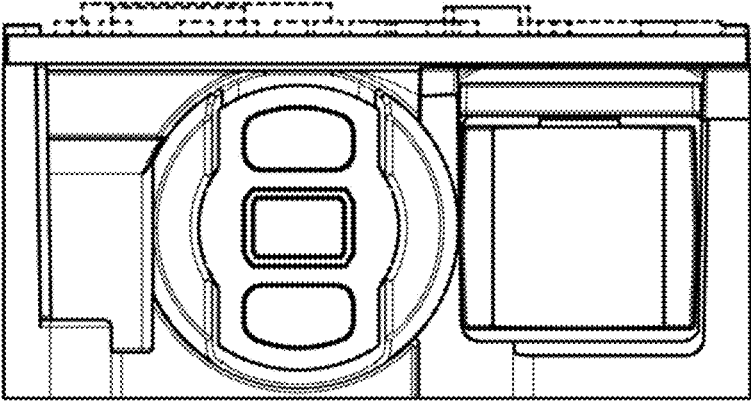


FIG. 3

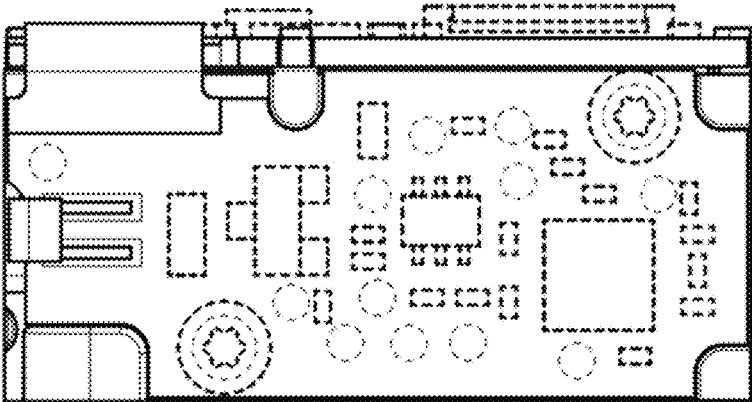


FIG. 4

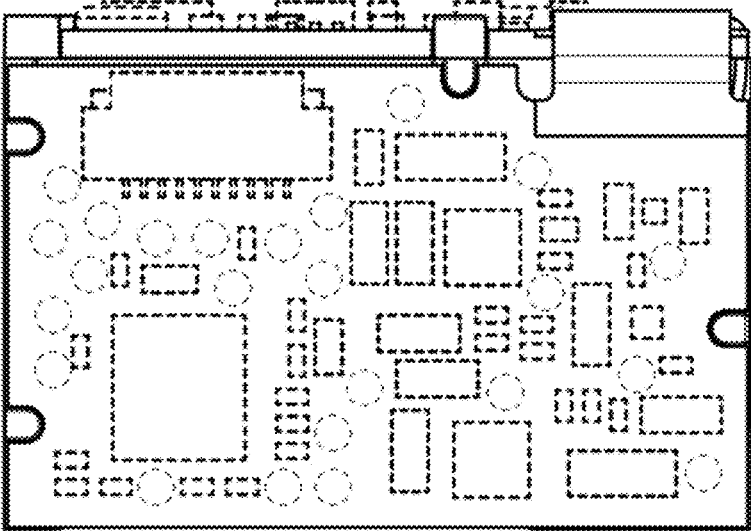


FIG. 5

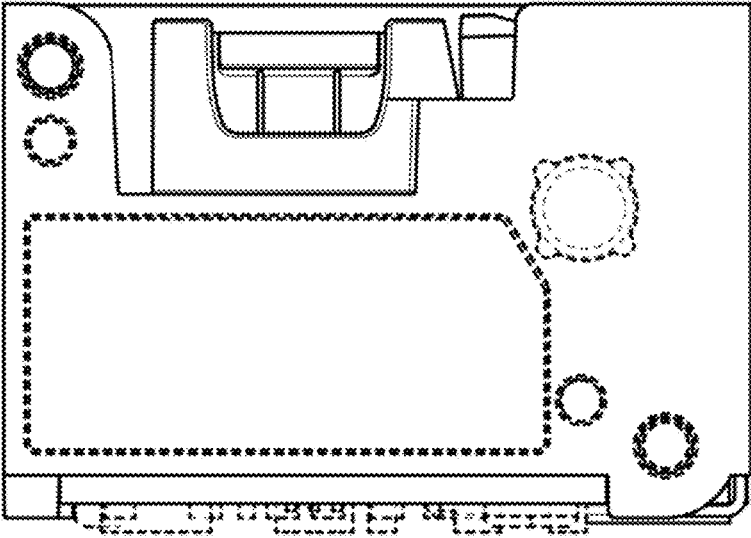


FIG. 6

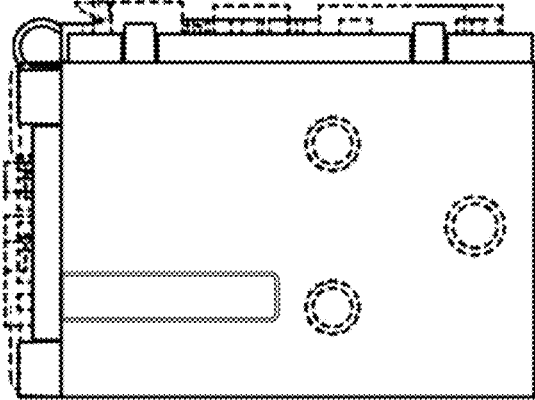


FIG. 7

