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B65G 1/137 (2006.01) *H05K 13/00* (2006.01)
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(54) Title: SMART CONTAINERS AND/OR BOXES HANDLED BY, AND STORED IN, AUTOMATED SMD WAREHOUSE

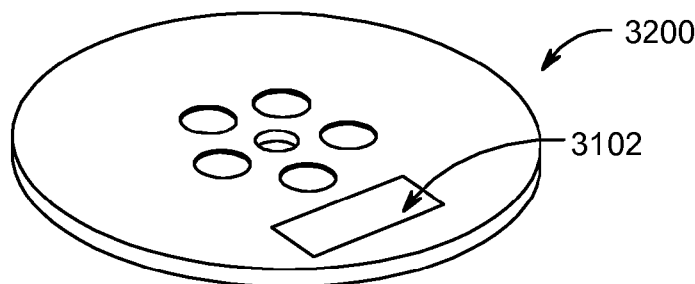


FIG. 12

(57) Abstract: A container, or box, for use in a Surface Mount Technology (SMT) system includes an outer shell and at least one compartment. The outer shell has side walls and a base. The container is configured to store a plurality of SMT-job related objects in said at least one compartment where one of said SMT-job related objects is not a component tape reel, wherein said container has a logically and electronically unique identity in the SMT system represented by a barcode or RFID tag arranged on the container, said unique ID of the container being configured to be associated with each of the unique IDs of said plurality of SMT-job related objects stored in said at least one compartment.



INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER INV. H05K13/08 B65G1/137 G06Q10/08 H05K13/02 H05K13/00 ADD.		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H05K B65G G06Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2015/040085 A1 (MYCRONIC AB [SE]) 26 March 2015 (2015-03-26)	1-21, 24-28, 30,31
A	page 2 - page 46; figures 1-19 -----	22,23,29
X	WO 2013/135730 A1 (MICRONIC LASER SYSTEMS AB) 19 September 2013 (2013-09-19)	18
A	the whole document	1-17, 19-21, 24-28, 30,31
A	----- EP 0 453 370 A1 (EUROSOFT ROBOTIQUE [FR]) 23 October 1991 (1991-10-23)	1-21, 24-28, 30,31
	the whole document ----- -/--	
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report	
5 December 2016	12/12/2016	
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Kaluza, Andreas	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2016/061848

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-21, 24-28, 30, 31

container with a compartment for a plurality of objects

2. claims: 22, 23, 29

input device

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2016/061848

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	EP 1 715 733 A2 (SIEMENS AG [DE]) 25 October 2006 (2006-10-25) paragraphs [0021] - [0037]; figures 1-4 -----	22,23,29
X	US 4 783 740 A (ISHIZAWA TOSHIMICHI [JP] ET AL) 8 November 1988 (1988-11-08) column 3, line 41 - column 8, line 46; figures 1-6 column 1, lines 5-17 -----	22,23,29
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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