



(51) International Patent Classification:

A47B 88/60 (2017.01) A47B 95/02 (2006.01)
B25H 3/02 (2006.01) B65D 25/28 (2006.01)
A47F 5/00 (2006.01)

(21) International Application Number:

PCT/IL2017/050449

(22) International Filing Date:

13 April 2017 (13.04.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

245210 20 April 2016 (20.04.2016) IL

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN, KP, KR,
KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

(54) Title: TILT BIN STORAGE SYSTEMS

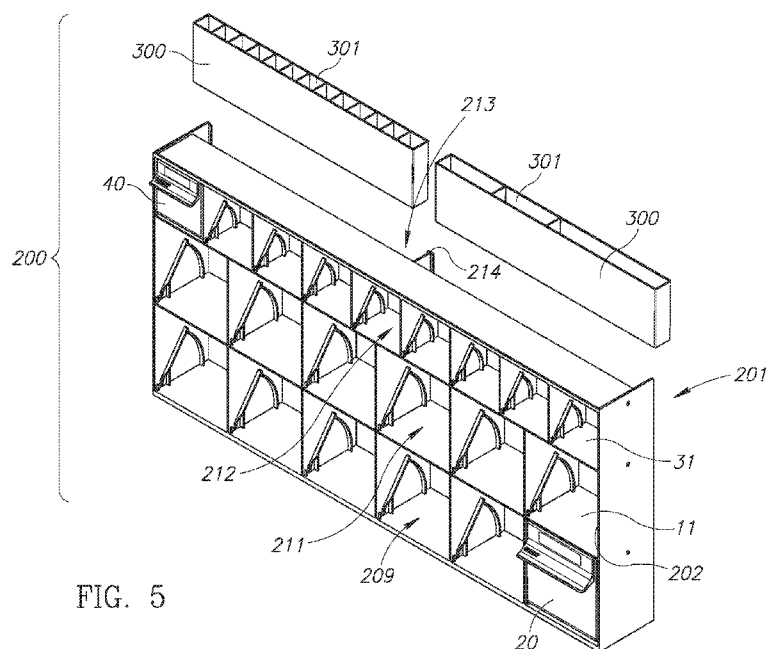


FIG. 5

(57) Abstract: Tilt bin storage systems including a discrete multi-storey open front tilt bin frame having a single rectangular front frame surface and at least a lowermost storey of tilt bins and an uppermost storey of tilt bins. The tilt bins include a tilt bin shell, a discrete tilt bin handles and a securing arrangement for securing a discrete tilt bin handle on the tilt bin shell on downward sliding of the discrete tilt bin handle on a tilt bin shell front surface.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

30 November 2017 (30.11.2017)

INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2017/050449

A. CLASSIFICATION OF SUBJECT MATTER INV. A47B88/60 B25H3/02 A47F5/00 A47B95/02 B65D25/28 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) A47B B25H A47F B65D E05B		
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.
Y	US 2007/235397 A1 (WANNOP GEORGE M [CA]) 11 October 2007 (2007-10-11) paragraph [0005] - paragraph [0007] paragraph [0013] paragraph [0027] - paragraph [0028] paragraph [0032]; figures 1,2,6,7 paragraph [0034] - paragraph [0035] -----	1,7
Y	GB 1 117 781 A (JOSS ATKINSON) 26 June 1968 (1968-06-26) page 1, line 46 - line 84; figure 1 -----	1,7
A	US 2013/168341 A1 (YOGEV ILAN [IL]) 4 July 2013 (2013-07-04) the whole document ----- -/-	1
☒ 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 26 October 2017		Date of mailing of the international search report 06/11/2017
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 Jacquemin, Martin

INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2017/050449

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 392 101 C (GUSTAV ADOLF ERB) 15 March 1924 (1924-03-15) the whole document -----	1
X	EP 0 162 232 A2 (VARTA PLASTIC GMBH [DE]) 27 November 1985 (1985-11-27) page 1, line 1 - line 5 page 4, line 19 - page 6, line 35 page 8, line 28 - page 9, line 28; figures 1-14 -----	8-11
X	US 5 074 009 A (SIMONTON RONALD [US] ET AL) 24 December 1991 (1991-12-24) column 1, line 6 column 3, line 25 - line 43; figures 1,2 -----	8,10
X	US 2014/033498 A1 (COFFIN DAVID A [US] ET AL) 6 February 2014 (2014-02-06) paragraph [0062] paragraph [0065]; figures 1a,1b,2b paragraph [0067] - paragraph [0068] -----	8,11
X	US 4 108 519 A (CHERVENAK ROBERT A) 22 August 1978 (1978-08-22) column 3, line 57 - column 4, line 37; figures 1-4 -----	8

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL2017/050449

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: 1-7

Tilt bin storage system with tilt bin compartments

2. claims: 8-11

Tilt bin with a securing arrangement for a handle

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2017/050449

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007235397	A1	11-10-2007	NONE
GB 1117781	A	26-06-1968	NONE
US 2013168341	A1	04-07-2013	NONE
DE 392101	C	15-03-1924	NONE
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US 2014033498	A1	06-02-2014	AR 089844 A1 24-09-2014 US 2014033498 A1 06-02-2014 WO 2014021929 A1 06-02-2014
US 4108519	A	22-08-1978	NONE