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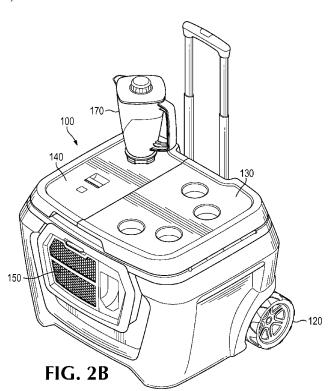
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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.
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Published:

with international search report (Art. 21(3))

[Continued on next page]

(54) Title: COOLER HAVING INTEGRATED BLENDER AND ACCESSORIES



(57) Abstract: A portable cooler (100) includes an insulated body (110) that defines a main interior storage space, and a lid (130, 140) structured to at least partially cover the main interior storage space. The lid (130, 140) includes an integrated blender (170) or an integrated blender drive. Components of the blender (170) may include a source of electrical power, an electric motor, and a blender spindle mounted through a surface of the lid (130, 140) and coupled to the electric motor. Other embodiments include integrated accessories, such as an integrated storage compartment, a set of wide wheels to minimize drag, an overall cooler shape that promotes ease of use over soft ground, quiet wheels, an improved drain, integrated plate and utensil storage, a telescoping handle with leverage plate, an integrated tie-down system, a unique lid system, and a system for utilizing the integrated battery for various purposes.



 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: 3 September 2015

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. F25D3/08 A47J43/046

A45C5/14

A47J43/08

A23G9/04 A47J43/07 A45C11/20

F25D23/12

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) F25D A47J A23G A45C B67D F25C B65D

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. DOCUMI	ENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 791 547 A (BRANSCUM T) 12 February 1974 (1974-02-12)	1-3, 5-18, 20-26, 28-33
	column 3, line 14 - line 24 figures 1-3,7	10 00
Y	US 5 855 431 A (COSTANZO FRANK T [US]) 5 January 1999 (1999-01-05)	1-3, 5-18, 20-26, 28-33, 35,44-46
	the whole document	,
Х	US 2013/043337 A1 (RUKAVINA STEVE [US] ET AL) 21 February 2013 (2013-02-21)	34,39
Y	abstract figures 1-14	35-38
	-/	

X Further documents are listed in the continuation of Box C.	X	See	patent family annex.
* Special categories of cited documents :			

 \Box

- "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
- document published prior to the international filing date but later than the priority date claimed
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- "&" document member of the same patent family

Date of the actual completion of the international search Date of mailing of the international search report 8 July 2015 20/07/2015 Name and mailing address of the ISA/ Authorized officer European Patent Office, P.B. 5818 Patentlaan 2

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2014/063589

0(0	Sign) DOCUMENTS CONSIDERED TO BE BELEVANT	PC1/U52U14/U63589
,	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	T
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	EP 1 969 980 A1 (WHIRLPOOL CO [US]) 17 September 2008 (2008-09-17)	3,5,8, 10-13, 15,18, 20, 24-26, 28-33, 36-38
	the whole document	
X	US 2009/277187 A1 (MCGANN RYAN [US]) 12 November 2009 (2009-11-12)	40-43, 143,145, 146, 151-156
Y	paragraph [0002] paragraph [0010] paragraphs [0013] - [0015] paragraph [0061] paragraph [0064] paragraph [0068] paragraph [0070] - paragraph [0072] figures 1-22	44-46
X	WO 2007/106471 A2 (LINDLEY MICHAEL B [US]) 20 September 2007 (2007-09-20) paragraph [0020] paragraph [0045] paragraph [0062] - paragraph [0063] paragraph [0107] - paragraph [0109] paragraph [0156] figures 4-12,15-16	143-156
A	US 2002/176320 A1 (WULF JOHN DOUGLAS [US] ET AL) 28 November 2002 (2002-11-28) abstract figure 2	40,44-46
A	US 2010/037786 A1 (KOUNLAVONG PHETSOUVANH [US] ET AL) 18 February 2010 (2010-02-18) the whole document	1-39
Α	DE 31 22 813 A1 (REFAIE ABDELRAHMAN) 5 January 1983 (1983-01-05) the whole document	1-39
A	US 2011/073212 A1 (ERBS DARYL G [US] ET AL) 31 March 2011 (2011-03-31) the whole document	1-39
A	US 2013/082051 A1 (KAUFMANN SCOTT W [US]) 4 April 2013 (2013-04-04) paragraphs [0019], [0051], [0066] figures 1,2,6A-D	40-46, 143-156
A	US 5 379 596 A (GRAYSON TOM [US]) 10 January 1995 (1995-01-10) the whole document	40-46, 153-156

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International application No. PCT/US2014/063589

INTERNATIONAL SEARCH REPORT

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:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
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
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. X 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.: 1-46, 143-156
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.:
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: 1-39

Portable cooler or lid or blender (suitable for portable cooler) comprising an integrated blender or blender spindle or blender driver

2. claims: 40-46, 143-156

Portable cooler or electrical network (suitable for portable cooler) comprising an energy source (ex: rechargeable battery)

3. claims: 47-68

Portable cooler comprising a sliding surface and/or wheel(s)

4. claims: 69-76

Portable cooler comprising a hinged lid

5. claims: 77-85

Portable cooler comprising an internal reinforcement within

the cooler body

6. claims: 86-93, 129-142

Portable cooler comprising a storage structure

7. claims: 94-103

Portable cooler comprising a tie-down cord and a tie-down

cord retainer

8. claims: 104-128

Portable cooler comprising a liquid collection cup

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2014/063589

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3791547 A	12-02-1974	NONE	
US 5855431 A	05-01-1999	NONE	
US 2013043337 A1	21-02-2013	US 2013043337 A1 WO 2013025794 A1	21-02-2013 21-02-2013
EP 1969980 A1	17-09-2008	CA 2625561 A1 EP 1969980 A1 US 2008223963 A1	12-09-2008 17-09-2008 18-09-2008
US 2009277187 A1	12-11-2009	NONE	
WO 2007106471 A2	20-09-2007	US 2007221515 A1 WO 2007106471 A2	27-09-2007 20-09-2007
US 2002176320 A1	28-11-2002	CA 2381491 A1 JP 2002360452 A US 2002176320 A1 US 2003147300 A1 US 2003193833 A1 US 2007201306 A1 US 2009168593 A1 US 2010135106 A1 US 2011046786 A1 US 2012018561 A1	13-10-2002 17-12-2002 28-11-2002 07-08-2003 16-10-2003 30-08-2007 02-07-2009 03-06-2010 24-02-2011 26-01-2012
US 2010037786 A1	18-02-2010	CA 2666216 A1 US 2010037786 A1	14-02-2010 18-02-2010
DE 3122813 A1	05-01-1983	NONE	
US 2011073212 A1	31-03-2011	CA 2716028 A1 CA 2716067 A1 US 2011073212 A1 US 2011079249 A1	30-03-2011 30-03-2011 31-03-2011 07-04-2011
US 2013082051 A1	04-04-2013	NONE	
US 5379596 A	10-01-1995	NONE	