

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 July 2008 (10.07.2008)

PCT

(10) International Publication Number
WO 2008/083231 A3

(51) International Patent Classification:

D05B 11/00 (2006.01) *A47C 23/04* (2006.01)
D05B 35/00 (2006.01) *A47C 17/00* (2006.01)

(21) International Application Number:

PCT/US2007/088967

(22) International Filing Date:

27 December 2007 (27.12.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/618,476 29 December 2006 (29.12.2006) US

(71) Applicant (for all designated States except US): **PACIFIC COAST FEATHER COMPANY** [US/US]; 1964 4th Avenue South, Seattle, WA 98134 (US).

(72) Inventor: **DELFS, Juliette, M.**; 163 Garfield Street, Seattle, WA 98109 (US).

(74) Agent: **PUNTIGAM, Clark, A.**; Jensen & Puntigam, P.S., 2033 6th Avenue #1020, Seattle, WA 98121 (US).

(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, BR, BW, BY, BZ, CA, CH, 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, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

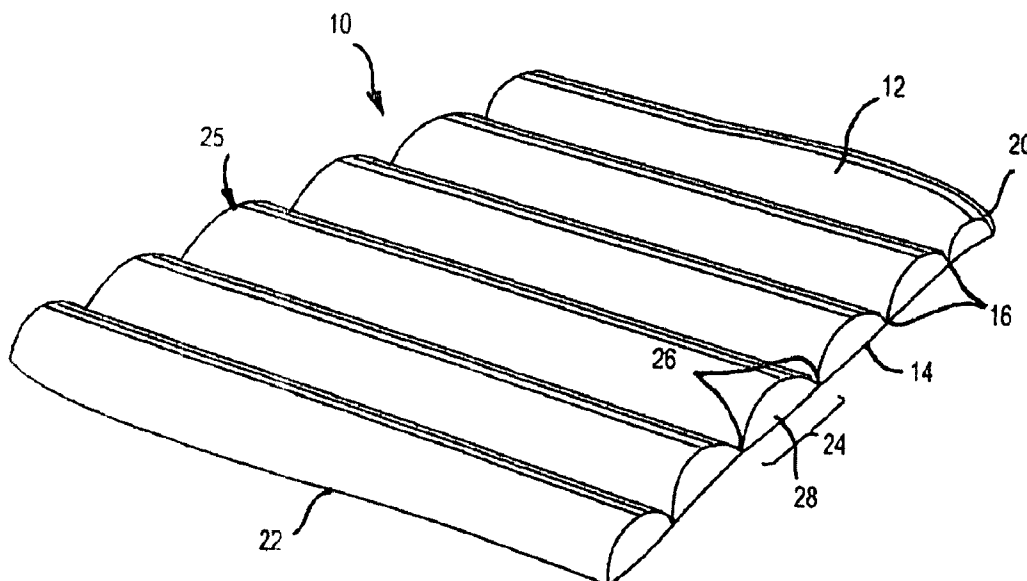
Published:

- with international search report

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

21 August 2008

(54) Title: TUBULE FEATHERBED



(57) Abstract: The featherbed includes upper and lower fabric layers, with the upper layer being longer than the lower layer. Lines of stitching connect the upper layer to the lower layer at spaced lateral lines along the length of the featherbed, thereby defining successive abutting lateral half-tubules, which are filled such that the upper layer extends away from the lower layer in a curved configuration, defining a plurality of half-tubules, generally in the shape of half-ellipses, with the fill density being greater, approximately 21 % than that of a similar-sized conventional featherbed.



WO 2008/083231 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/88967

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - D05B 11/00; D05B 35/00; A47C 23/04; A47C 17/00 (2008.01)

USPC - 112/118; 112/420; 5/720; 5/690

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)
USPC- 112/118 ; 112/420; 5/720; 5/690Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC- 5/709, 711Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST, Google Scholar, Google News, Factiva: quilt or blanket or featherbed or feather near5 bed, and (circ\$6 or ellip\$6), and (tubule or tub\$4 or tubul\$4 or arc\$4), and (height or wide or width) near10 (inch or inches), "cross section", and scallop\$4 and pleat\$4

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 3,198,149 A (SCHLEGEL) 03 Aug 1965 (03.08.1965); col 1, ln 10-47; col 7, ln 3-5; Fig 9	1-3, 7-9, 12, 13, 17-20, 24 and 26 ----- 4-6, 10, 11, 14-16, 21-23 and 25
Y	US 6,745,419 B1 (DELFS et al.) 08 Jun 2004 (08.06.2004); col 1, ln 13-15 and 62-65; col 2, ln 4-19	4-6, 16, 21-23 and 25
Y	US 4,799,520 A (BLACKBURN et al.) 24 Jan 1989 (24.01.1989); col 3, ln 14-20	10, 14 and 15
Y	US 7,080,421 B1 (DELFS) 25 Jul 2006 (25.07.2006); col 3, ln 13-18	11
Y	US 5,099,529 A (ANDERSON) 31 Mar 1992 (31.03.1992); col 3, ln 52-53	6 and 23

☐ Further documents are listed in the continuation of Box C.

* 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

04 March 2008 (04.03.2008)

Date of mailing of the international search report

10 APR 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774