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(54) Title: ABSORBENT ARTICLE WITH MULTI-LAYER FOLDED ABSORBENT CORE

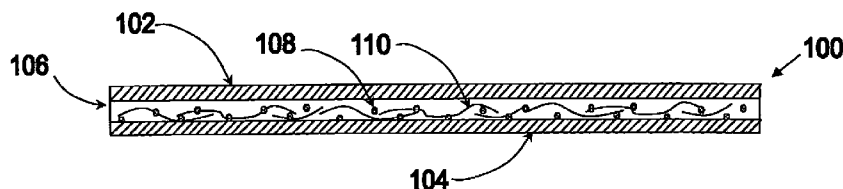


FIG. 1

(57) Abstract: Absorbent laminates and multi-layer, folded absorbent cores comprising the absorbent laminates for use in absorbent articles are presented. Specifically, multi-layer, folded absorbent cores are presented that are formed from an absorbent laminate comprising an absorbent layer between two tissue layers, in which the absorbent core includes a central channel running longitudinally along the core and crenellations profiled along the thickness of the core and providing enhanced liquid distribution across the core surface area or profile and improved liquid absorption into the laminate.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2015/018198

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 13/15 (2015.01)

CPC - A61F 13/15 (2015.04)

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)

IPC(8) - A61F 13/00, 13/15, 13/49, 13/53, 13/537, 13/539, 13/56; A61L 15/60 (2015.01)

CPC - A61F 13/00, 13/15, 2013/530481, 13/5323, 13/534, 13/53418, 13/53747; A61L 15/16, 15/60 (2015.04)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC - 442/414; 604/317, 358, 365, 366, 367, 378, 385.01, 385.201

(keyword delimited)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Orbit, Google Patents, Google, Google Scholar

Search terms used: absorbent core, folding laminate, folding absorbent, upper laminate, lower laminate, absorbent polymer, SAP, channel, adhesive, CRC, surface, stability rating

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,632,209 B1 (CHMIELEWSKI) 14 October 2003 (14.10.2003) entire document	1-12, 14-17, 19-36
Y		13, 18
Y	US 8,021,998 B2 (QIN et al) 20 September 2011 (20.09.2011) entire document	13
Y	WO 2013/126934 A1 (LENZING AG) 06 September 2013 (06.09.2013) entire document	18
A	US 2005/0215962 A1 (LITVAY et al) 29 September 2005 (29.09.2005) entire document	1-36
A	US 2012/0316526 A1 (ROSATI et al) 13 December 2012 (13.12.2012) entire document	1-36

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

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"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

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