



US00D819234S

(12) **United States Design Patent**
Stephens et al.

(10) **Patent No.:** **US D819,234 S**

(45) **Date of Patent:** **** May 29, 2018**

(54) **WOOD-GRAINED POLYMER BOARD**

(71) Applicant: **TANGENT TECHNOLOGIES LLC**,
Aurora, IL (US)

(72) Inventors: **Andrew Stephens**, Aurora, IL (US);
Francisco Morales, Plano, IL (US);
Tadeusz Rybka, Streamwood, IL (US)

(73) Assignee: **TANGENT TECHNOLOGIES LLC**,
Aurora, IL (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/575,378**

(22) Filed: **Aug. 24, 2016**

(51) **LOC (11) Cl.** **25-01**

(52) **U.S. Cl.**

USPC **D25/150**

(58) **Field of Classification Search**

USPC D25/138-163, 58, 104; D5/5, 8, 43, 47,
D5/58, 20, 44, 64, 49, 60; D6/597;
D19/4, 28; 428/171, 364, 540
CPC E04B 2001/2481; E04B 2001/2484; E04B
5/00; E04B 9/00; E04B 1/86; E04B
2001/1984; E04F 15/02; B44F 9/04;
B44F 9/02; D21H 27/04; Y10T
428/31982; Y10T 428/31986; Y10T
428/31989; Y10T 428/24066; Y10T
428/24438; E04D 1/085; E04D 1/205;
D06N 2211/066

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D92,186 S * 5/1934 Little D5/62
2,332,081 A * 10/1943 Hunt E04C 2/24
403/294
2,632,204 A 5/1953 Murray
3,247,047 A 4/1966 Buckley
3,422,175 A 1/1969 Rowland

3,443,278 A 5/1969 Nauta
3,531,828 A 10/1970 Nauta
3,608,261 A * 9/1971 French et al. B28B 1/526
264/241
3,792,945 A 2/1974 Randall
3,920,366 A 11/1975 Randall
4,280,950 A 7/1981 Nagata et al.
(Continued)

FOREIGN PATENT DOCUMENTS

DE 1963161 6/1971
EP 0532340 3/1993
(Continued)

OTHER PUBLICATIONS

DeGroot, "Synthetic Decking Roundup," *Professional Deck Builder*
1-8 (2012).

(Continued)

Primary Examiner — Vy Koenig
Assistant Examiner — Kimberly Barnes
(74) *Attorney, Agent, or Firm* — Barnes & Thornburg
LLP; Kyle A. Forgue

(57) **CLAIM**

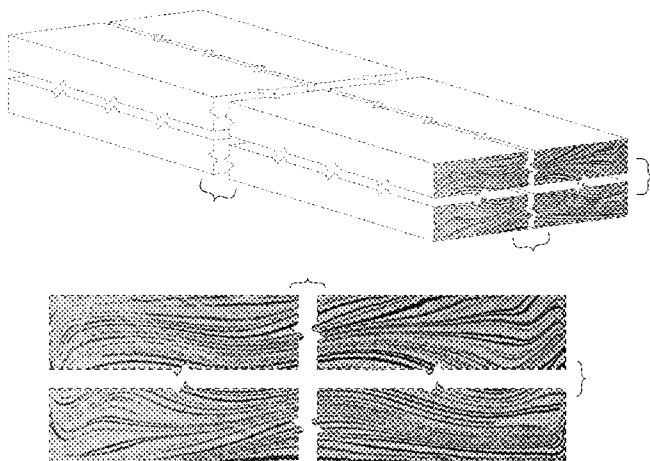
We claim the ornamental design for a wood-grained polymer
board, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a wood-grained polymer
board in accordance with our new design; and,
FIG. 2 is an end elevation view of the wood-grained polymer
board of FIG. 1.

The wood-grained polymer board is shown with a symbolic
break in its length, width, and height. The appearance of any
portion of the article between the break lines forms no part
of the claimed design. The broken lines depict portions of
the wood-grained polymer board that form no part of the
claimed design.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,661,392 A 4/1987 Kapstad
 D299,793 S 2/1989 Yacovella
 4,836,814 A 6/1989 Bambara et al.
 5,110,530 A 5/1992 Havens
 5,126,088 A 6/1992 Andres
 5,232,751 A 8/1993 Cameron et al.
 5,866,639 A 2/1999 Dorchester et al.
 5,869,138 A 2/1999 Nishibori
 D428,500 S * 7/2000 Wederski D25/150
 6,083,601 A 7/2000 Prince et al.
 6,153,293 A 11/2000 Dahl et al.
 6,596,784 B1 7/2003 King
 D505,467 S 5/2005 Marr
 D531,326 S * 10/2006 Folliard D25/163
 7,137,229 B2 * 11/2006 Pervan B27F 1/06
 428/50
 7,204,944 B2 4/2007 Piedboeuf
 7,410,687 B2 8/2008 Dolinar
 7,507,464 B2 3/2009 Walrath
 7,588,821 B2 * 9/2009 Horwitz B29C 59/002
 428/323
 7,866,758 B2 1/2011 Jang
 D642,287 S * 7/2011 Poland D25/119
 D644,340 S 8/2011 Canales et al.
 D653,779 S * 2/2012 Damen D25/138
 D653,780 S 2/2012 Metcalf
 8,168,104 B2 5/2012 Han et al.
 8,197,733 B2 6/2012 Sudano
 D668,794 S * 10/2012 Trudel D25/119
 D671,230 S * 11/2012 Lee D25/150
 D678,556 S 3/2013 Metcalf
 8,388,331 B2 3/2013 Osada et al.
 D710,117 S * 8/2014 Euna D5/60
 D732,191 S * 6/2015 Price D25/113
 D732,192 S * 6/2015 Price D25/113
 D732,193 S * 6/2015 Price D25/113
 D732,194 S * 6/2015 Price D25/113

D732,195 S * 6/2015 Price D25/113
 D732,197 S * 6/2015 Price D25/113
 D780,333 S * 2/2017 Davis D25/149
 D780,335 S * 2/2017 Davis D25/149
 D782,070 S 3/2017 Metcalf et al.
 D784,566 S 4/2017 Davis
 D786,457 S 5/2017 Metcalf
 2003/0021915 A1 1/2003 Rohatgi et al.
 2004/0038002 A1 2/2004 Franco et al.
 2007/0104930 A1 5/2007 Grohman
 2008/0299351 A1 12/2008 Buchholtz et al.
 2011/0151193 A1 6/2011 Cantley et al.
 2011/0177291 A1 7/2011 Sudano et al.
 2013/0224437 A1 8/2013 Park et al.
 2016/0273228 A1 9/2016 Metcalf et al.

FOREIGN PATENT DOCUMENTS

FR 2738768 12/1999
 GB 1489591 10/1977
 JP H07-214631 8/1995

OTHER PUBLICATIONS

Koepplmayr et al., "Numerical and Experimental Modeling of a Multiflux Static Mixer for Continuous Extrusion of Layered Polymer Blends," *14th European Conference on Mixing*, at Warsaw, Poland, (Sep. 2012).
 Van der Hoeven et al., "Homogeneity of multilayers produced with a Static Mixer," *Polymer Engineering and Science*, 41(1): 1-18 (2001).
 Thermally Fused Laminate (TFL) Panels (on-line), no date available. Retrieved from Internet Aug. 11, 2017, URL: <http://funderamerica.com/products/tfl-panels/> (3 pages).
 StaMixCo, "Principles of Operation of Static Mixers," Static Mixer Products & Technology, accessed on the Internet at: <https://web.archive.org/web/20081209081624/http://www.stamixco-usa.com:80/principles-of-operation/default.html> (Dec. 9, 2008).

* cited by examiner

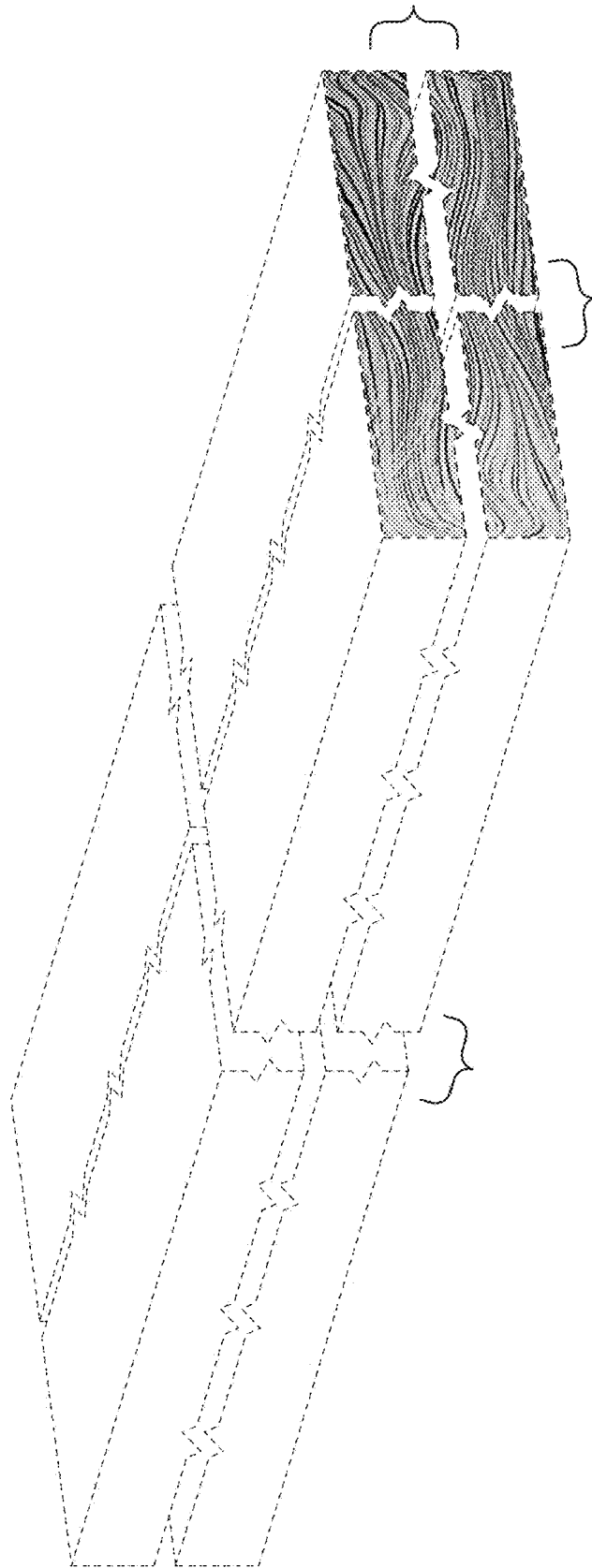


FIG. 1

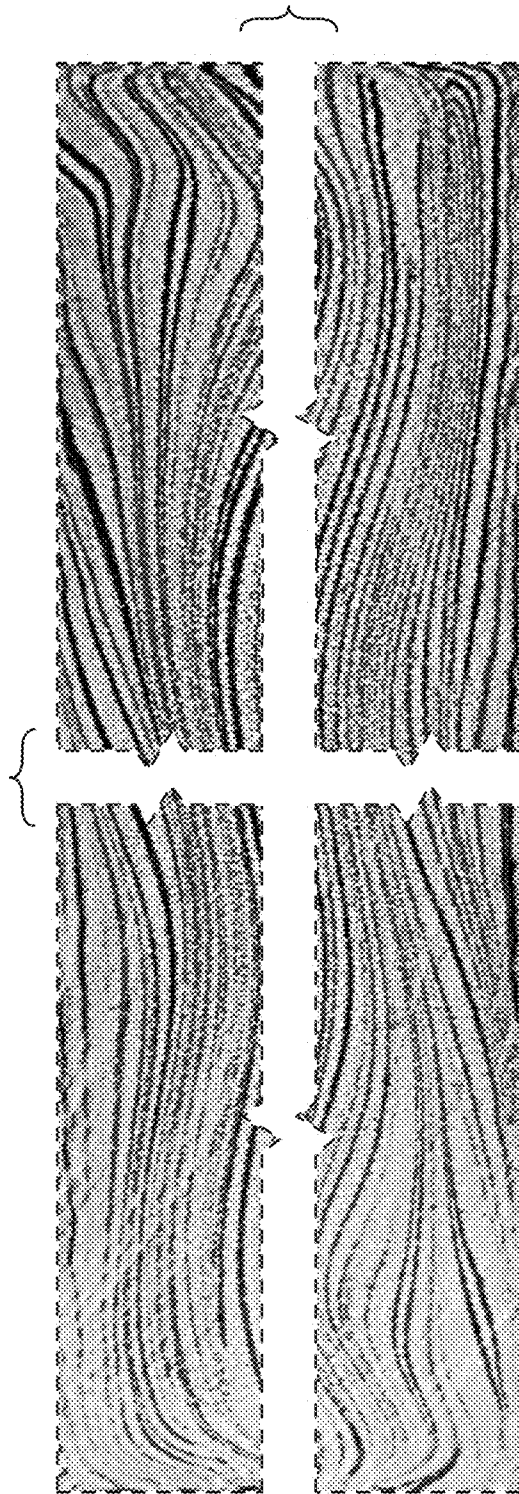


FIG. 2