US010000639B2

(12) **United States Patent**
Jackson et al.

(10) **Patent No.: US 10,000,639 B2**
(45) **Date of Patent: Jun. 19, 2018**

(54) **COMPOSITE WOOD BOARD**

(71) Applicants: **Knauf Insulation SPRL**, Vise (BE); **Knauf Insulation, Inc.**, Shelbyville, IN (US)

(72) Inventors: **Roger Jackson**, St. Helens (GB); **Tony Aindow**, St. Helens (GB); **George Baybutt**, St. Helens (GB)

(73) Assignees: **Knauf Insulation SPRL**, Vise (BE); **Knauf Insulation, Inc.**, Shelbyville, IN (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. days.

(21) Appl. No.: **15/682,616**

(22) Filed: **Aug. 22, 2017**

(65) **Prior Publication Data**

US 2017/0349751 A1 Dec. 7, 2017

Related U.S. Application Data

(63) Continuation of application No. 15/238,032, filed on Aug. 16, 2016, now abandoned, which is a continuation of application No. 14/734,765, filed on Jun. 9, 2015, now Pat. No. 9,447,281, which is a continuation of application No. 14/556,409, filed on Dec. 1, 2014, now abandoned, which is a continuation of application No. 13/915,968, filed on Jun. 12, 2013, now Pat. No. 8,901,208, which is a continuation of application No. 12/524,522, filed as application No. PCT/EP2007/050746 on Jan. 25, 2007, now Pat. No. 8,501,838.

(51) **Int. Cl.**

C08L 5/00	(2006.01)
C08L 97/02	(2006.01)
B27N 3/00	(2006.01)

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

CPC ***C08L 97/02*** (2013.01); ***B27N 3/002*** (2013.01); ***C08L 5/00*** (2013.01); *C08L 2205/16* (2013.01)

(58) **Field of Classification Search**

CPC C08L 97/02; C08L 5/00; B27N 3/002
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,801,052	A		4/1931	Meigs
1,801,053	A		4/1931	Meigs
1,886,353	A		11/1932	Novotny
1,902,948	A		3/1933	Castle
1,964,263	A		6/1934	Krenke
2,198,874	A		4/1940	Leighton
2,215,825	A		9/1940	Wallace
2,261,295	A		11/1941	Schlack
2,362,086	A		11/1944	Eastes
2,371,990	A		3/1945	Hanford
2,392,105	A		1/1946	Sussman
2,442,989	A		6/1948	Sussman
2,500,665	A		3/1950	Courtright
2,518,956	A		8/1950	Sussman
2,875,073	A		2/1959	Gogek
2,894,920	A		7/1959	Ramos
2,965,504	A		12/1960	Gogek
3,038,462	A		6/1962	Bohdan
3,138,473	A		6/1964	Floyd
3,222,243	A		12/1965	Gaston
3,231,349	A		1/1966	Stalego
3,232,821	A		2/1966	Banks
3,297,419	A	*	1/1967	Eyre, Jr. 44/534
3,513,001	A		5/1970	Woodhead
3,551,365	A		12/1970	Matalon
3,784,408	A		1/1974	Jaffee
3,791,807	A		2/1974	Etzel
3,802,897	A		4/1974	Bovier
3,809,664	A		5/1974	Burr
3,826,767	A		7/1974	Hoover
3,856,606	A		12/1974	Fan
3,867,119	A		2/1975	Takeo
3,907,724	A		9/1975	Higginbottom
3,911,048	A		10/1975	Nistri
3,919,134	A		11/1975	Higginbottom
3,922,466	A		11/1975	Bell
3,955,031	A		5/1976	Jones
3,956,204	A		5/1976	Higginbottom
3,961,081	A		6/1976	McKenzie
3,971,807	A		7/1976	Brack
4,014,726	A		3/1977	Fargo
4,028,290	A		6/1977	Reid
4,048,127	A		9/1977	Gibbons
4,054,713	A		10/1977	Sakaguchi
4,085,076	A		4/1978	Gibbons
4,097,427	A		6/1978	Aitken
4,107,379	A		8/1978	Stofko
4,109,057	A		8/1978	Nakamura
4,144,027	A		3/1979	Habib
4,148,765	A		4/1979	Nelson
4,183,997	A		1/1980	Stofko
4,184,986	A		1/1980	Krasnobajew
4,186,053	A		1/1980	Krasnobajew
4,201,247	A		5/1980	Shannon
4,201,857	A		5/1980	Krasnobajew
4,217,414	A		8/1980	Walon
4,233,432	A		11/1980	Curtis, Jr.
4,246,367	A		1/1981	Curtis, Jr.
4,259,190	A		3/1981	Fahey
4,265,963	A		5/1981	Matalon

(Continued)

FOREIGN PATENT DOCUMENTS

AU	8538765	8/1985
AU	9640921	7/1997

(Continued)

OTHER PUBLICATIONS

International Search Report and Written Opinion for PCT/US2008/059730, completed Sep. 22, 2008.

(Continued)

Primary Examiner — Robert Harlan
(74) *Attorney, Agent, or Firm* — Knauf Insulation, Inc.; James K. Blodgett

(57) **ABSTRACT**

In a stack of composite wood boards, the wood boards comprise wood particles and an organic binder.

20 Claims, 5 Drawing Sheets