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(54) **ABSORBENT ARTICLE FOR ABSORBING MOISTURE ON A STRUCTURE**

(75) Inventors: **James E. Toonen**, Mendota Heights, MN (US); **Sharf U. Ahmed**, Woodbury, MN (US); **Stephen G. Rippe**, White Bear Lake, MN (US); **Charles W. Graves**, Lake Elmo, MN (US)

(73) Assignee: **H.B. Fuller Company**, St. Paul, MN (US)

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(52) **U.S. Cl.** **428/354**; 428/40.1; 428/41.8; 428/99; 206/223

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,076,663 A 2/1978 Masuda et al.
4,093,776 A 6/1978 Aoki et al.
4,573,986 A * 3/1986 Minetola et al. 604/366

4,666,983 A 5/1987 Tsubakimoto et al.
4,734,478 A 3/1988 Tsubakimoto et al.
4,769,024 A * 9/1988 Pike et al. 604/390
4,850,991 A 7/1989 Nakanishi et al.
4,977,211 A 12/1990 Doi et al.
5,075,373 A 12/1991 Takemori et al.
5,143,961 A 9/1992 Scholl et al.
5,149,332 A * 9/1992 Walton et al. 604/358
5,281,207 A 1/1994 Chmielewski et al.
5,567,744 A 10/1996 Nagata et al.
5,591,149 A * 1/1997 Cree et al. 604/378
5,731,365 A 3/1998 Engelhardt et al.

(Continued)

FOREIGN PATENT DOCUMENTS

DE 3842327 6/1990

(Continued)

OTHER PUBLICATIONS

Dictionary.com "Contact", Nov. 2011.*

(Continued)

Primary Examiner — Callie Shosho

Assistant Examiner — Cheng Huang

(74) *Attorney, Agent, or Firm* — Kirsten Stone; Kristi Halloran

(57) **ABSTRACT**

A method of using an absorbent article where the method includes adhering at least a portion of an absorbent article to a surface of a window through a pressure sensitive adhesive composition. The absorbent article includes an exterior surface, an acquisition layer, superabsorbent polymer, a first layer that has an exterior surface and an interior surface, and a pressure sensitive attachment adhesive composition, the superabsorbent polymer being disposed between the acquisition layer and the interior surface of the first layer, and the pressure sensitive attachment adhesive composition being disposed on the exterior surface of the absorbent article.

19 Claims, 8 Drawing Sheets

