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(12) **United States Patent**
Miller et al.(10) **Patent No.:** US 8,791,198 B2
(45) **Date of Patent:** Jul. 29, 2014(54) **CURABLE AQUEOUS COMPOSITION**(75) Inventors: **Wayne P. Miller**, Mounds View, MN (US); **Patrick D. Gleason**, Shoreview, MN (US); **Michael Wright**, St. Michael, MN (US)(73) Assignee: **H.B. Fuller Company**, St. Paul, MN (US)

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C08L 33/02 (2006.01)
C08L 31/04 (2006.01)
C08L 23/08 (2006.01)(52) **U.S. Cl.**CPC **C08L 33/02** (2013.01); **C08L 31/04** (2013.01); **C08L 23/0869** (2013.01)
USPC **524/556**; 524/44; 524/503; 524/524(58) **Field of Classification Search**CPC C08L 33/02; C08L 31/04; C08L 23/0869
USPC 524/44, 503, 524, 556
See application file for complete search history.(56) **References Cited**

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Robert D. Athey Jr., *Emulsion Polymer Technology*. 1991; p. 195, Marcel Dekker Inc. New York.*Primary Examiner* — Mark Eashoo*Assistant Examiner* — Nicholas Hill(74) *Attorney, Agent, or Firm* — Kirsten Stone; Allison Johnson(57) **ABSTRACT**

A curable aqueous composition that includes a first polymer that includes carboxyl groups, and a second component that includes a second water insoluble polymer and a stabilizer. The second component includes functional groups that react with the carboxyl groups of the first polymer during cure, is free from carboxylic acid groups, or a combination thereof. The composition, when dry, exhibits a first Tg of at least 10° C. and a second Tg of at least 50° C.

32 Claims, No Drawings