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

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(54) **RE-WORKABLE MOISTURE CURABLE HOT MELT ADHESIVE COMPOSITION, METHODS OF USING THE SAME, AND ARTICLES INCLUDING THE SAME**

(58) **Field of Classification Search**
CPC C09J 175/04; C09J 175/06; C08G 18/12; C08G 18/4277; C08G 18/4238;
(Continued)

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

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This patent is subject to a terminal disclaimer.

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(21) Appl. No.: **14/826,547**

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(57) **ABSTRACT**

(51) **Int. Cl.**
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H05K 5/00 (2006.01)
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Disclosed is an article that includes a first substrate, a second substrate, and a re-workable adhesive composition, the first substrate being bonded to the second substrate through the adhesive composition. The adhesive composition is derived from a moisture curable polyurethane hot melt adhesive composition that includes a polyurethane prepolymer that includes the reaction product of a first crystalline polyester polyol having a number average molecular weight of from at least 5500 grams per mole (g/mol) to about 20,000 g/mol and a melting point of at least 40° C., and a polyisocyanate. The re-workable adhesive composition is cleanly removable from at least one of the first substrate and the second

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