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(54) **ORTHODONTIC ADHESIVES**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

An single component light-curable orthodontic adhesive includes a curable resin monomer component; a quaternary curing initiator system; and filler. The orthodontic adhesive has a long working time (W) and short curing time (C). The adhesives are suitable as light-curing and may include a colorant. Suitable colorants include reversible, thermochromic dyes. The adhesive may also include a resin toughening component.

18 Claims, 12 Drawing Sheets