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Smuckler

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[54] RAPID CURING, ELECTRICALLY CONDUCTIVE ADHESIVE

[76] Inventor: Jack H. Smuckler, 9 Country La., Marblehead, Mass. 01945

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Related U.S. Application Data

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[52] U.S. Cl. 264/22; 264/104; 264/272.13; 264/337

[58] Field of Search 264/22, 104, 105, 272.13, 264/337; 252/518, 500

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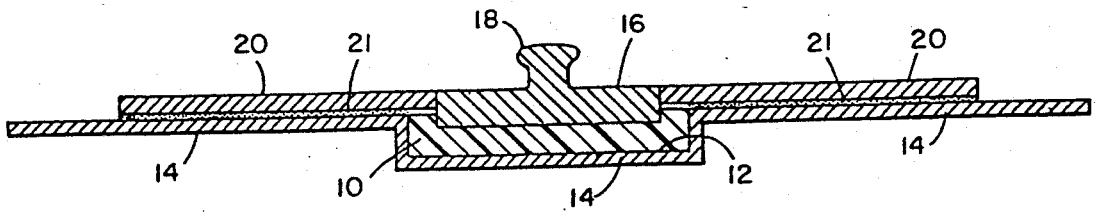
Primary Examiner—Jeffery Thurlow
Attorney, Agent, or Firm—Testa, Hurwitz & Thibeault

[57] ABSTRACT

A conductive hydrogel for biomedical applications is produced by a method in which an N-vinyl lactam monomer and an acrylic monomer are mixed together in a ratio of between 10:1 and 1:10 to form an adhesive precursor composition which can be polymerized rapidly and efficiently in situ in less than 30 seconds upon exposure to UV light. The electrically conductive hydrogel compositions contain the polymerizable monomers, water, a crosslinking agent, an ionizable salt and photoinitiator.

9 Claims, 1 Drawing Sheet