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(54) **ENERGY-ACTIVATED ROOM TEMPERATURE-PUMPABLE POLYMER COMPOSITIONS AND DEVICES FOR ACTIVATING AND DISPENSING THE SAME**

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See application file for complete search history.

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(57) **ABSTRACT**

Energy-activated room temperature-pumpable polymer compositions, devices for activating and processing the same into solid cellular or non-cellular polymeric materials that can be used as adhesives, sealants, coatings or gasket materials, and methods of making and using the same. The compositions according to the invention include solid particles that include one or more polymers, which are emulsified, dispersed or suspended in a liquid carrier together with at least one processing aid, such as a reactive blowing agent, a low molecular weight surfactant, a high molecular weight surfactant, one or more compounds found in latex paint, starch, cellulosic derived products and combinations of two or more thereof. The processing aids provide various benefits including, for example, reduced density, improved process hygiene, improved foam stability, faster bonding times and/or lower processing temperatures.

**12 Claims, 5 Drawing Sheets**

