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[Continued on next page]

(54) **Title**: SELF-HEALING POLYMER MATERIALS FOR WIRE INSULATION, POLYIMIDES, FLAT SURFACES, AND INFLATABLE STRUCTURES

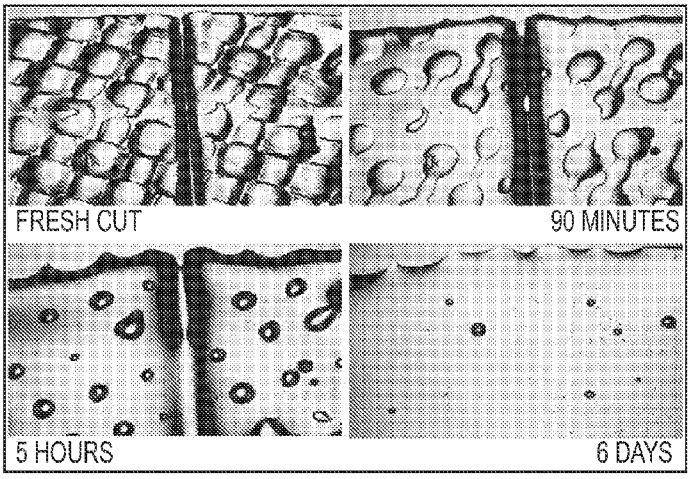


Fig. 2

(57) **Abstract**: Materials based on low melt polyimide, polyurea, or polyurethane chemistry have been developed which exhibit self-healing properties. These high performance polymers can be utilized either by themselves or in combination with microcapsule technology to deliver self-healing properties to electrical wire insulation or in other high performance, thin wall technologies such as inflatable structures.

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