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[54] **SPECTRAL CATALYSTS**

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[51] **Int. Cl.⁷** **C07C 1/00**

[52] **U.S. Cl.** **204/157.15**

[58] **Field of Search** 204/157.15

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[57] **ABSTRACT**

A wide variety of reactions can be advantageously affected and directed by a spectral catalyst which duplicates the electromagnetic energy spectral pattern of a physical catalyst and when applied to a reaction system transfers a quanta of energy in the form of electromagnetic energy to control and/or promote the reaction system. The spectral catalysts utilized in this invention can replace and/or augment the energy normally provided to the reaction system by a physical catalyst. A spectral catalyst may also act as both a positive catalyst to increase the rate of a reaction or as a negative catalyst to decrease the rate of reaction.

10 Claims, No Drawings