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[54] **METHOD OF COUNTERACTING AN ETHYLENE RESPONSE IN PLANTS**

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M. C. Pirrung; *Proposal to the Fred C. Gioeckner Foundation* (1991).

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Pirrung et al. "Ethylene Biosynthesis, Aminocyclopropene carboxylic acid", *J. Chem. Soc., Chem. Commun.*, (13), 857-859, 1989.

[21] Appl. No.: **253,951**

Wheeler et al., "Synthesis of 1-aminocyclopropene carboxylic acid", *J. Org. Chem.*, 52(22) 4875-4877, 1987.

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[51] **Int. Cl.⁶** **A01N 3/02**; A01N 27/00; A01N 29/04; A01N 33/04

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[52] **U.S. Cl.** **504/114**; 504/115; 504/320; 504/326; 504/353; 504/356; 504/357

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[58] **Field of Search** 504/114, 115, 504/320, 326, 353, 356, 357

[57] **ABSTRACT**

[56] **References Cited**

A method of inhibiting an ethylene response in a plant is disclosed herein. The method comprises applying to the plant an effective ethylene response-inhibiting amount of cyclopropene, 1.1.1. propellane, or derivatives thereof. Also disclosed are methods of inhibiting abscission in plants and methods of prolonging the life of cut flowers.

U.S. PATENT DOCUMENTS

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44 Claims, 4 Drawing Sheets