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(54) Title: COTTON GROWTH REGULATOR

(57) Abstract: Control of terminal growth of cotton plants resulting in improved productivity is achieved by treatment with 1) a protoporphyrinogen oxidase enzyme-inhibiting (PPO-inhibiting) compound, 2) a harvest growth regulating (HGR) compound, 3) a cell membrane disruption (CMD) compound or 4) an amino acid synthesis inhibiting (AAS-inhibiting) compounds. Of particular interest is the use of carfentrazone-ethyl and certain metabolites thereof for regulating growth of cotton plants.



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A CLASSIFICATION OF SUBJECT MATTER IPC A01N 65/00(2006 01) USPC 504/189 According to International Patent Classification (IPC) or to both national classification and IPC		
B FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U S 504/189 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) stn		
C DOCUMENTS CONSIDERED TO BE RELEVANT		
Category ♦	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	DATABASE CAPLUS ON STN AN 1986 2141 BROWN et al Weed control programs for minimum-tillage cotton (Gossypium hirsutum), Weed Science 1985, Vol 33, No 6, pages 843-847, abstract	13,15
Y	DATABASE CAPLUS ON STN AN 1972 95629 BARETAS et al Effect of defoliant on nitrogen metabolism in cotton fruit organs, Fiziologiya Rastenu (Moscow), 1971, Vol 18, No 6, pages 1269-1272, abstract	13,14
Y	US 2005/022 1985 A1 (GARCIA et al) 06 October 2005 (06 10 2005), paragraphs 13-15, 18, 22, 23, 25 and 27, Examples 1-7 and claims 1 and 30	1-13, 16-22
D Further documents are listed in the continuation of Box C ☐ See patent family annex		
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Name and mailing address of the ISA/US Mail Stop PCT, Ann ISA/US Commissioner for Patents P O Box 1450 Alexandria, Virginia 223 13-1450 Facsimile No (571) 273-3201		Authorized officer <i>[Signature]</i> /Alton Pryor/, Primary Examiner, AU 1616 Telephone No 571-272-16Q0