Title (en)

METHOD FOR TREATING CEREAL CROP SEED WITH CHITOSAN TO ENHANCE YIELD, ROOT GROWTH, AND STEM STRENGTH

Publication

EP 0328540 A4 19910109 (EN)

Application

EP 87907165 A 19870814

Priority

US 8701971 W 19870814

Abstract (en)

[origin: WO8901288A1] Commercially produced chitosan applied to cereal crop seeds at rates of 60 mu g to 1000 mu g per gram of seed enhances root development, crown diameter, mature straw strength and crop yield. Dry chitosan, when dissolved in dilute acid and neutralized, is applied directly to cereal crop seed with only minor modification to seed treating machinery and methods. In addition to a clear benefit in cereal crop yield, the chitosan treated seed can be planted early to reduce erosion and it can be planted in regions having soil infested with root rotting organims and not suffer extensive lodging that would prevent seed recovery by commercial harvesters.

IPC 1-7

A01N 43/16

IPC 8 full level

A01C 1/00 (2006.01); **A01C 1/06** (2006.01); **A01G 7/06** (2006.01); **A01N 43/16** (2006.01)

CPC (source: EP)

A01N 43/16 (2013.01)

Citation (search report)

- [XP] EP 0243695 A2 19871104 - FREEPONS DONALD E
- [X] CHEMICAL PATENTS INDEX, BASIC ABSTRACTS JOURNAL, section C, week 8622, 23rd July 1986, accession no. 86-137382/22, Derwent Publications Ltd, London, GB; & AU-A-85 47 960 (UNIV. OF WASHINGTON) 10-04-1986
- [X] M. YALPANI: "Industrial polysaccharides", 1987, pages 363-376, Elsevier, Amsterdam, NL; P.A. SANDFORD et al.: "Chitosan - A natural, cationic biopolymer: commercial applications"
- See references of WO 8901288A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

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